



OVER 65 YEARS OF SERVICE IN NEW CONSTRUCTION AND RENOVATION PROJECTS.

Wenger is your trusted resource for equipment, furniture and services to help you create the most effective facilities for music, theatre and athletics.

We have an enormous library of resources and hundreds of professionals ready to put their expertise to work for you.



OVERVIEW — Introduction



MUSIC

A day doesn't go by without Wenger visiting with a band or orchestra director or talking with a choral director or meeting with a school administrator, architect or acoustician. These relationships have been going on for over 65 years and you can imagine what kind of insights we've gained into what music facilities need to succeed.



THEATRE

Whatever the facility, from small black box theatres to large performing arts centers, Wenger provides innovative products designed specifically for the needs of rehearsal and performance – durable, versatile products that save time and labor.



ATHLETICS

GearBoss® by Wenger is a complete, state-of-the-art system designed to help with all aspects of your athletic program. From lockers, to storage, to equipment transport and fund-raising solutions, GearBoss products save you time, space and effort. They're flexible and customizable so your system can change as your needs change. Plus, we'll work with you every step of the way to make sure you get exactly the right system – nothing more, nothing less.



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Overview - Introduction

Five ways Wenger can help create the ideal facility.

Sound Isolation

Every Wenger Practice Room features guaranteed sound isolation — plus a modular design that makes it easy to relocate. Wenger acoustical doors are pre-engineered for consistent high-integrity installation.

Acoustical Shells and Treatments

Acoustically superior, aesthetically pleasing, surprisingly affordable designs. Wenger will support your own design efforts by providing layout and design drafting, engineering, and spec development.

Storage

Our experts will help you configure the most effective plan for instrument, music, media or athletic equipment storage. This free service helps you maximize space and minimize traffic congestion, and it helps save significant hours of layout time.

Platform Systems

Let us show you how to convert the auditorium orchestra pit into a stage extension or additional seating area. We can also offer options for portable stages or tiered audience seating that can be used throughout the facility. And all consultations are free.

Furniture

Wenger offers the most comprehensive line of music education furniture available, all attractively coordinated with contemporary colors and designs. Catalogs, color and fabric samples, and specs and layout information available.

Use Areas - Applications

Wenger Products	Band, Orchestra, Choral Rehearsal Rooms	Auditorium	Black Box Theatre	Gymnasium Cafetorium Multi-Purpose	Athletic Equipment Room	Outdoor Performance
SoundLok® Sound-Isolation Practice Rooms	✓	✓	✓			
VAE® Technology (Virtual Acoustical Environment)	✓		✓			
Acoustical Doors	✓	✓	✓	✓		
Instrument Storage Systems	✓			✓		
Robe and Uniform Storage	✓			✓	✓	
Music Storage	✓			✓		
Acoustical Shell Enclosures	✓	✓	✓	✓		✓
Acoustical Treatments	✓	✓	✓			
Tunable Acoustic Panels, Transform™ Motorized Acoustical Banner and Transcend™ Active Acoustic System	✓	✓	✓			
Orchestra Pit Filler/Stage Extensions		✓				
Staging and Seated Riser Systems	✓	✓	✓	✓		✓
Portable ADA-Compliant Disability Ramp	✓	✓	✓	✓		✓
Portable and Fixed Audience Seating Systems		✓	✓	✓		
Makeup Stations		✓	✓	✓		
GearBoss® High-Density Storage	✓			✓	✓	
GearBoss® Shelving	✓			✓	✓	
Furniture	✓	✓	✓	✓	✓	✓

Product specifications require special assistance. Please call your Wenger representative to discuss product options and project requirements, after which we will present you with a customized specification. You can also request product specifications on our website at wengercorp.com. We've designed our website for your total convenience.



Getting greener and greener together.

Today we're more committed than ever to searching out new ways to lessen our impact on the environment while we help our customers do the same.

Here are just some of our environmental initiatives.

Implementing the philosophy of the USGBC

The U.S. Green Building Council is a 501(c)(3) non-profit community of leaders working to make green buildings available to everyone within a generation.



As a member of the U.S. Green Building Council since 2009, Wenger is committed to fulfilling USGBC's mission to promote green building practices.

LEED Certification

LEED (Leadership in Energy and Environmental Design) is an internationally recognized green building certification system, providing third-party verification that a building or community was designed and built using strategies aimed at improving performance across all the metrics that matter most: energy savings, water efficiency, CO² emissions reduction, improved indoor environmental quality, and stewardship of resources and sensitivity to their impacts.

GREENGUARD Certification

The GREENGUARD Environmental Institute (GEI) is an industry-independent, not-for-profit organization that:

- Oversees the GREENGUARD Certification programs.
- Establishes acceptable product standards for building materials, interior furnishings, cleaners, electronics and children's products.
- Recognized by LEED – IEQ Credit 4.5



Forest Stewardship Council® (FSC®) Chain of Custody (COC) Certificate

FSC is an independent, non-governmental, not-for-profit organization established to promote the responsible management of the world's forests. FSC provides internationally recognized standard-setting, trademark assurance and accreditation services to companies, organizations, and communities interested in responsible forestry.



The FSC label provides a credible link between responsible production and consumption of forest products, enabling consumers and businesses to make purchasing decisions that benefit people and the environment as well as providing ongoing business value.

- Recognized by USGBC / LEED
- MR Credit 7: Certified Wood

GREENGUARD Certified Products

- UltraStor™ Storage Products
- AcoustiCabinets®
- Attic Storage
- Percussion Workstation
- Tuba/Sousaphone Mobile Storage Rack
- Stringed Instrument Racks
- Rack 'n Roll® Garment Rack
- Music Library Storage Systems
- Music Sorting Racks
- Folio Cabinets
- Media Storage Cabinets
- Rehearsal Resource Center
- Essential Lab Workstation
- Music Lab Workstations
- Bookcases
- Wardrobe Cabinet
- Poster/Teaching Storage Cabinet
- Small Instrument Storage Cabinet
- ORFFGarage®
- OnBoard® Cargo Cart
- GearBoss® High-Density Storage Team Carts
- GearBoss® High-Density Storage X-Carts™
- GearBoss® SportCart
- GearBoss® High-Density Storage Cart Accessories
- GearBoss® II High-Density Storage Carts and Accessories
- GearBoss® Shelving
- Mobile Kiosk
- AirPro™ Metal Grid Lockers
- Tablet Stand for iPad®
- Universal Tablet Stand
- Bravo™ Music Stand
- RoughNeck® Music Stand
- Classic 50® Music Stand
- Preface® Music Stand
- Preface® Conductor's Stand
- Gig® Stand Music Stand
- Acoustic Shield
- Move and Store Carts
- Director's Stand
- Conductor's Stand
- Flex® Conductor's Stand
- Flex® TechBridge
- Tuba Tamer™
- Cymbal Stand
- TeacherTAXI®
- Nota® Conductor's Chair
- Nota® ConBRIO® Chairs
- Nota® Standard Chairs
- Nota® Premium Chairs
- Ensemble Stools
- Sousaphone Chairs
- High Density Portable Audience Chairs
- Symphony Chairs
- Musician Chairs
- Student Chairs
- SoundLok® Sound-Isolating Practice Room
- SoundLok® Sound-Isolating Practice Room with VAE Technology

Years of Experience Guarantees Years of Satisfaction.

Wenger Corporation was founded in 1946 to provide innovative, high-quality products and solutions for music and theatre education, performance and athletic equipment storage and transport.

We have spent over 70 years listening to what our customers need and then designing and developing durable, functional products to meet those needs — products that enhance any program and deliver what they promise year after year.

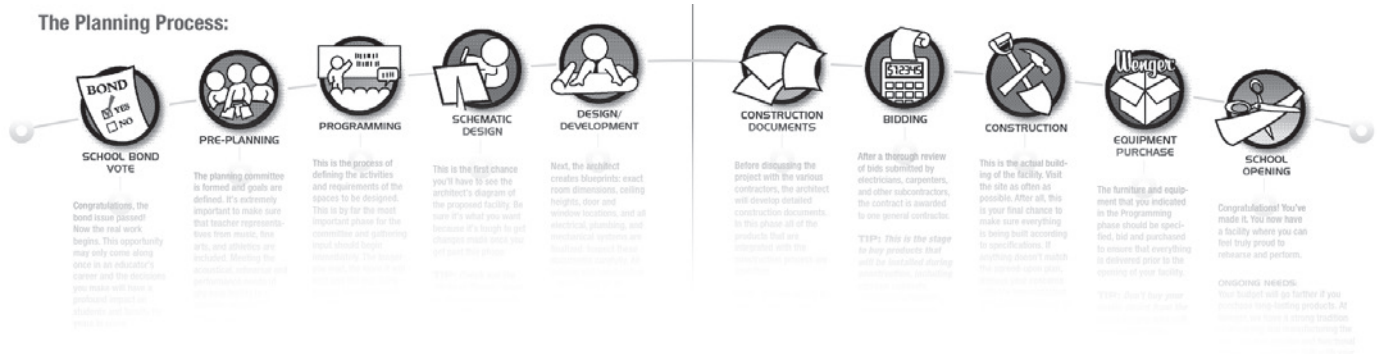
Expertise you should leverage early and often.

The success of your new facility depends on your plan. Call Wenger before you start and we'll help you design your ideal environment, perfectly balancing budget, needs, space, and traffic like no other resource. For nearly seven decades we've helped thousands of educators and administrators get the most out of every dollar for new construction, renovations, additions, and improvements. In fact, no other company in the world has spent more time with music educators or studied more types of music facilities.

Your Wenger representative is in tune with music performance and education and will help you make smart, cost-effective decisions on everything from product selection to space allocation to stretching a tight budget. You'll also benefit from our close working relationship with architects, ensuring your satisfaction by providing them with a trusted resource for the complexities of rehearsal-space and performance-space design.

Please keep in mind we can also collaborate with your committee and give you the support and resources you need to persuasively present your plan. It's also important to know that from concept to completion, putting Wenger experience and expertise to work doesn't cost you a dime.

The planning process for these types of facilities can vary from project to project. Fortunately every process follows a timeline of similar steps that we can help you prepare for. From the passing of a school bond to design, bidding and construction, Wenger can help you be ready every step of the way. We can share our expertise and experience in this process to help you make yours a success.



Planning is Easier with our Free Planning Guides:



Wenger Planning Guides

Everything you need to understand the new construction process and what you can do to most effectively organize your objectives to make sure your new music facility is the best it can be.

Wenger Athletic Space Planning Guide

This is an ideal resource to help athletic directors, school administrators, coaches, equipment planners and architects plan new facilities or improve the space usage within existing ones.



Wenger Representatives also offer a 45 minute presentation that addresses, "Design Considerations for Secondary School Music Facilities." Wenger Corporation is a Registered Provider with The American Institute of Architects Continuing Education Systems. Credit earned on completion of this program will be reported to CES Records for AIA members. Certificates of Completion for non-AIA members are available.

Call 1.800.4WENGER (493-6437) for our free literature today.

MUSIC REHEARSAL & PRACTICE ROOMS



Wenger®
Your Performance Partner

MUSIC REHEARSAL & PRACTICE ROOMS



SOUNDLOK® SOUND-ISOLATION ROOMS AND VIRTUAL ACOUSTICAL ENVIRONMENTS™
Wenger practice rooms provide guaranteed sound isolation in a modular design that is easy to relocate. They also offer a level of performance and flexibility that is impossible to achieve with built-in rooms. SoundLok® Practice Rooms with VAE technology enhances music education by simulating a variety of distinct practice and performance environments.



ACOUSTICAL DOORS
Wenger Acoustical Doors provide superior sound isolation that's easy to install. Our doors accommodate almost any wall thickness, so you don't have to worry about installation compromises that can ruin sound isolation. Many models are available with a one-hour fire rating.



REHEARSAL ROOM ACOUSTICS
Wenger acoustical panels optimize sound by providing proper sound absorption and diffusion for rehearsal rooms to reduce loudness and produce the sound quality and sense of ensemble required for effective music education. Now available in Tunable design to accommodate both choral and instrument groups.



INSTRUMENT STORAGE SYSTEMS
Wenger storage solutions are built with superior hardware, stronger shelves, more durable laminates and advanced construction techniques. Wenger systems are engineered to optimize traffic flow and reduce congestion – and a variety of color combinations blend easily with any music room décor.



SEATED RISER SYSTEMS
Wenger seated risers can be customized for any space. With their unique engineering, you can design the size and shape that suits your needs. They're durable, stable and will actually enhance the acoustics of a rehearsal room when compared with poured concrete risers.

See "Staging & Seated Riser Systems" for more information



VAE® REHEARSAL
Wenger's VAE technology for rehearsal rooms uses highly advanced active acoustics to simulate nine different acoustic environments - at the touch of a button. We can custom program any of the nine presets to simulate other acoustic environments of your choosing, even one that simulates your school's auditorium.



ROBE AND UNIFORM STORAGE
Innovative engineering and superior construction practices combine to create systems that are as functional as they are unique. Wenger has paid special attention to proper airflow and ventilation, as well as storage solutions that deter theft or vandalism.



MUSIC STORAGE
Wenger music storage systems make music much more accessible and easy to locate – and it does this in only a fraction of the space compared to standard file cabinets. Wenger systems are built for reliability and durability with a much cleaner, more organized appearance that lasts for years.



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SoundLok® Sound-Isolation Rooms



Wenger®
Your Performance Partner

SoundLok® Sound-Isolation Rooms



Modular, relocatable practice rooms with superior sound isolation.

Sound-Isolation Practice Rooms

Wenger pioneered sound isolation in practice rooms, and we continue to use the most advanced technologies to set new standards. More often than not, the built-in practice rooms we see simply do not work. They leak sound in and out, and the internal acoustics are often among the worst in the entire building. For built-in rooms to work, the high level of detail in the design leaves too many areas to chance during the construction phase. Often a small compromise or cut corner can render these rooms unusable for practice.

Wenger guarantees the performance of our sound-isolation practice rooms. Wenger rooms also offer a clean, attractive look that you can coordinate to your space. And each room is modular – so it can be moved down the hall as your facility needs change, and can be re-sized in the future.

Product Details

- Clean, professional 4" (10 cm) thick steel wall and 6" (15 cm) thick ceiling panels are filled with high-grade acoustical insulation.
- Rails, channels, and corner pieces interlock panels at the floor and ceiling with double-seated-gasketed seams.
- 3' (91 cm) wide door with glass-panel allows easy monitoring, personal security, and inviting ambience.
- Advanced fan ventilation system supplies complete fresh air exchange every 1.5 to 2.5 minutes.
- Built-in LED lighting to minimize power consumption. Provides 80 fc at 36" (91 cm) above the floor for a 7' 6" (229 cm) high room.
- ETL Classified room wiring system.
- Five-year warranty.

Options

- Room heights (interior) available in 6" (15 cm) increments from 7'6" to 10' (2.3m- 3m).
- Door Options: 3' (91 cm) standard; 4' (122 cm) door for large instruments; double door for grand piano.
- Vertical window panels available.
- Horizontal broadcast application windows available in 60" (152 cm) and 90" (229 cm) lengths.
- Horizontal and vertical closure panels available to create a complete, built-in look for side-by-side installations.
- Choice of fan unit or direct HVAC connection to building system.
- Extra-capacity raceway for communications and network cabling.
- Floating floor for even greater sound isolation.
- Available in three exterior colors.

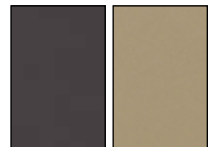


Wall Panel, Ceiling Panel & Ceiling Trim Colors



Warm Sand Vanilla Oyster

Door & Floor Rail Colors



Charcoal Grey Warm Beige



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SoundLok® Sound-Isolation Rooms

Application Information

How can a student be expected to practice the flute when the sound of the trumpet next door is blasting through the walls and leaking through the vents? Or how can a French horn player improve tone when the internal acoustics in the practice room are muddy or excessively bright?

Wenger pioneered sound isolation in practice rooms, and we continue to use the most advanced technologies to set new standards. That's why we can guarantee the performance of our sound-isolation practice rooms.

Our modular rooms offer a clean, attractive look with closure panels for a seamless installation.

And each room is relocatable — so you can move it down the hall or across town as your facility needs change.

Usage

Sound-isolated individual or group practice rooms and teaching studios.

Performance Requirements

- Clean, professional 4" (10 cm) thick steel wall and 6" (15 cm) thick ceiling panels are filled with high-grade acoustical insulation.
- Rails, channels, and corner pieces interlock panels at the floor and ceiling with double-seated-gasketed seams.
- 3' (91 cm) wide door with glass-panel allows easy monitoring, personal security, and inviting ambience.
- Advanced fan ventilation system supplies complete fresh air exchange every 1.5 to 2.5 minutes. For direct-connect HVAC systems, contact your Wenger representative.
- Built-in LED lighting to minimize power consumption. Provides 80 fc at 36" (91 cm) above the floor for a 7' 6" (229 cm) high room.
- ETL Classified room wiring system.
- Five-year warranty.

Options

- Room heights (interior) available in 6" (15 cm) increments from 7'6" to 10' (2.3m- 3m).
- Door Options: 3' (91 cm) standard; 4' (122 cm) door for large instruments; double door for grand piano.
- Vertical window panels available.
- Horizontal broadcast application windows available in 60" (152 cm) and 90" (229 cm) lengths.
- Horizontal and vertical closure panels available to create a complete, built-in look for side-by-side installations.
- Choice of fan unit or direct HVAC connection to building system.
- Extra-capacity raceway for communications and network cabling.
- Floating floor for even greater sound isolation.
- Available in three exterior colors.



SoundLok® Sound-Isolation Rooms

Application Information

General Information

- Practice rooms may be pre-wired to be easily upgraded to Virtual Acoustic Environments® (VAE).
- The modular design allows easy relocation, size changes and reconfiguring as needs change.

General Specifications

- Many size options accommodate one performer or ensembles up to twenty performers.
- Sizes range from 5'8" x 4'5" to 19'5" x 25'8". (173 x 135 cm to 592 x 782 cm).
VAE upgrade is possible on practice rooms with areas up to 328 square feet (30.5 square meters).
- Internal ceiling height ranges from 7'6" to 10' 0" (229 to 305 cm) in 6" (15 cm) increments.
- ETL Classified room wiring system.
- Surfaces: powder-coat paint.
- Sound-isolating door: STC = 46, with a full window.
- Sound-isolating ventilation: Acoustically isolated HVAC connection. Data available upon request.

Sound-Isolation and Internal Acoustics

- Ideal acoustical environment for uninterrupted instruction, rehearsal, recording, etc.
- Acoustically dry environment accurately reflects sound.
- Rated: NIC 41 exterior to interior; NIC 63 interior to interior of adjacent module.
- Ambient noise at center of module: NIC 25 with lighting and ventilation systems "on" (with built-in fans).
- Acoustically seals to floor without attachments, adhesives, or caulking.

Construction

- Wall and ceiling panels achieve ASTM E84/UL 94 Class 1 classification for flame spread and smoke developed.
- Wall and ceiling panels feature epoxy powder-baked finish.
- Hardware and electrical trim finish is satin chrome or painted to match.
- Wall frames are 14-gauge steel channels and ceiling frames are 16-gauge steel channels.
- Floor frame compensates for up to 3/4" (2 cm) variation in floor surface.
- Includes 1-1/4" (3 cm) neoprene pad under the frame to isolate floor vibration.
- Interior surfaces are 22-gauge perforated or solid steel; exterior surface is 16-gauge solid steel.
- Panel perimeters feature continuous acoustical gaskets and alignment locks.
- STC 46 rated doors are pre-hung on 36" (91 cm) frame for either right- or left-hand swing, either in-swing- or out-swing.
- Doors feature a double acoustical seal and an acoustically engineered full Vision Lite.
- Corner sections with built-in speaker enclosures and wiring included for VAE and upgradeable rooms.
- Wall panels with built-in microphone mounts with wiring included for VAE and upgradeable rooms.

Mechanical Systems

- Built-in components and wiring to allow for easy upgrade to VAE rooms without complete module disassembly.
- Built-in LED lighting to minimize power consumption. Provides 80 fc at 36" (91 cm) above the floor for a 7' 6" (229 cm) high room.
- Room has an ETL Classified wiring system. Power panel includes one quad receptacle, Light and/or Air switches and 20' (610 cm) power cable. Larger rooms have a communications panel that includes one quad receptacle and four double junction boxes for customer-installed fire alarms, clocks, phone lines, ect. Requires wiring a manufacturer supplied connector by a local electrician.
- Built-in fan system typically exchanges ambient surrounding air every 1.5 to 2 minutes.
- Module ventilation ducting features acoustically isolating construction.

Application Information

Layout Requirements

This information should help you incorporate sound-isolation practice rooms with or without VAE Technology into your plans. If you have questions or require additional information, please call us.

- A building ceiling height of 8'9" (267 cm) is required for non-upgradeable rooms with 7'6" (229 cm) interior ceiling height and integral fan ventilation system.
- A ceiling height of 9'0" (274 cm) is required for upgradeable or VAE rooms with 7'6" (229 cm) interior ceiling height and integral fan ventilation system.
- A building ceiling height of 10'7" (323 cm) is required for HVAC rooms with 7'6" (229 cm) interior ceiling height connected to the building ventilation system. This allows 2'0" (61 cm) above the 8" (20 cm) diameter HVAC adapter at the top of the room for connection of flex duct supplied by others.
- For maximum performance, spacing of 12" (30 cm) between rooms of space is recommended.
- Installations not on grade level or less than 5" (13 cm) of concrete floor that is above ground level should include optional floor system to control structure-borne sound. When floors are used, contact Wenger regarding ADA compliance.
- Refer to room weights for structural loading requirements.
- Floor must be level within 3/4" (2 cm) over the entire perimeter of the room.

Flexibility Factors

- The floor rail has 3/4" (2 cm) of adjustability for irregularities in the floor.
- Panel changeability:
The panel arrangements shown in the typical layout drawings are for normal music practice usage. Because of the component design, each panel (i.e., door, power) can be positioned at any point around the perimeter of the room. Each room can be ordered with any optional combination of panels.
- Door available with right-hand (RH), right-hand reverse (RHR) left-hand (LH), left-hand reverse (LHR) swings.
- Interior ceiling height options from 7'6" to 10' 0" (229 to 305 cm) in 6" (15 cm) increments are available for all rooms. Building ceiling height requirements rise accordingly.

Site Prep Requirements

- Building wall and floor finishes completed to specification by others.
- Building electrical system completed and Wenger supplied connector installed by others.
- Provide dedicated electrical service for each room's 20' (244 cm) power input cable.
- HVAC connections to each 8" (20 cm) diameter inlet and outlet flange is to be made with flex ducting supplied by others. Rooms with optional powered fan ventilation systems require no external ducting.

Installation Requirements

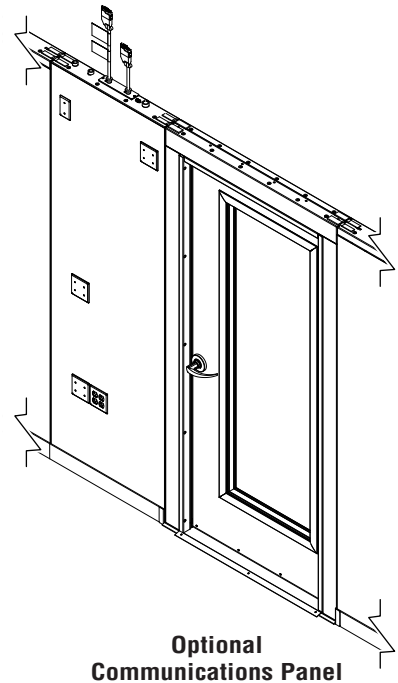
- Wenger supplied closure panels required.
- North American electrical requirements: 120V, 20A, 60Hz for each room. Dedicated circuit required. Contact Wenger for international requirements.
- Ambient temperature for VAE system 32°F to 95°F (0° to 35°C).
- Installation by Wenger is standard.
- See drawings for clearance requirements.
- Wenger practice rooms including rooms with VAE Technology feature UL® classified electrical systems.

SoundLok® Sound-Isolation Rooms

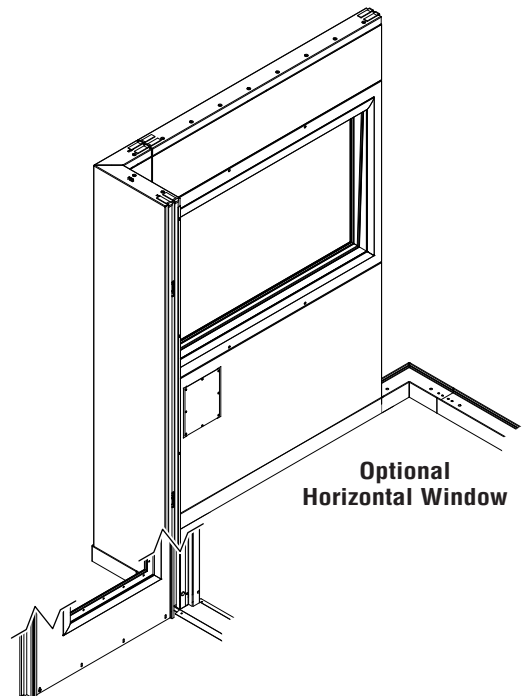
Typical Drawings

Options

- Communication panel and large box communication panel provide junction boxes for customer installed phone lines, data connections, additional electrical outlets and low-voltage studio communications, etc.
- Sound-isolating floating floor system recommended when building floor is less than 5" (13 cm) thick.
- Custom options include the following: one-way glass, double doors and track ready light panels.
- 4' (122 cm) door and 6' (183 cm) double door to accommodate percussion instruments such as a large timpani.
- Window panel viewable window area:
30" (76 cm) panel is 23-5/8" wide x 75 5/8" high (60 x 192 cm).



- Horizontal broadcast window: 60" (152 cm) and 90" (229 cm) wide.



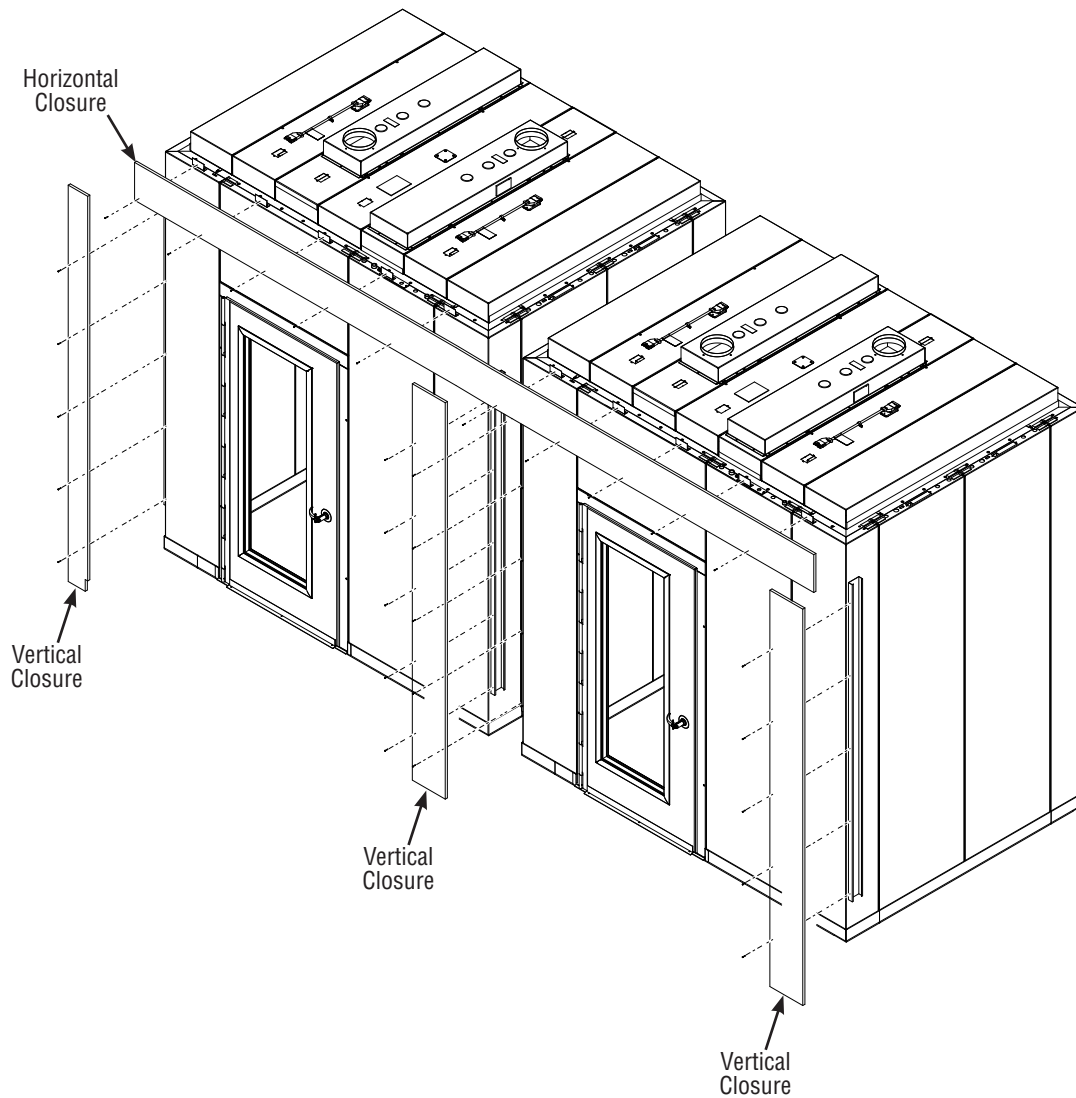
SoundLok® Sound-Isolation Rooms

Typical Drawings

Options

- Closure panels provide a clean, built-in look for side-by-side practice room installations. Maximum 24" (61 cm) vertical width and maximum 24" (61 cm) horizontal height (horizontal closures are required for practice rooms that have VAE technology).

Optional Closure Panels

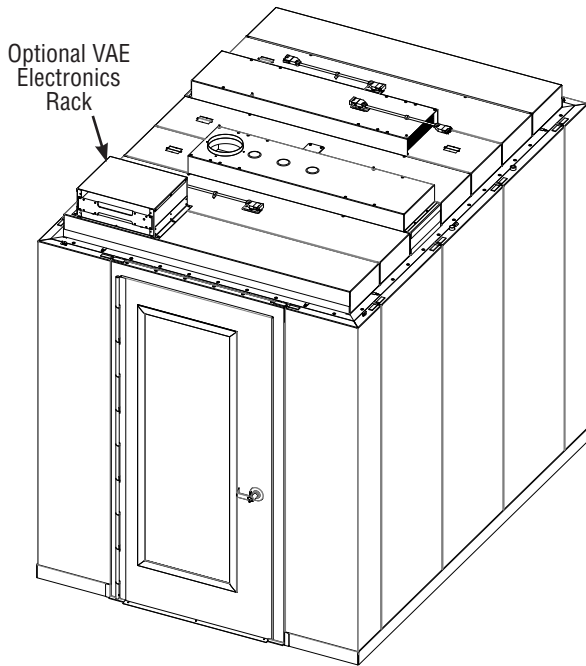


SoundLok® Sound-Isolation Rooms

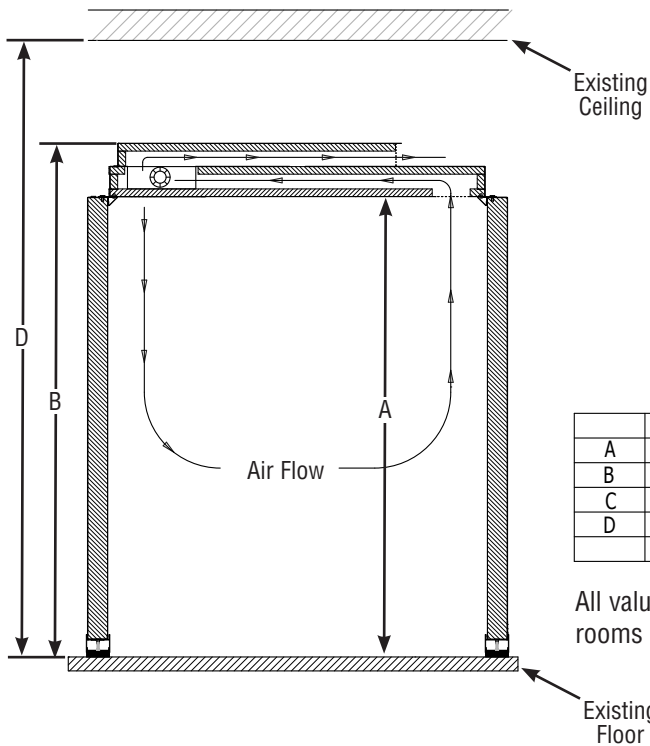
Typical Drawings

Options

Typical Module — with built-in fans



- Wenger employs a modular concept in room design. Walls are constructed from interchangeable 30" (762 mm) wide panels. Room layout can vary from the view shown. Wall, door, window, electrical and other optional panels can be arranged to customize the room.
- Wenger will design each room for optimum placement of doors, windows, electrical panels, lights and fan/vent panels.
- Recommended room to room or room to wall spacing is 12" (305 mm). Closer spacing may be possible but must be reviewed by Wenger for interference, access and ventilation issues.
- Windows in adjacent rooms can be protected from glare and dust by an optional shadow box installed around the periphery of the windows.



	STANDARD ROOMS	HEIGHTS DIMENSIONS
A	INTERIOR CEILING HEIGHT	7'-6 1/8" (2289 mm)
B	HEIGHT TO TOP OF FAN AND INTAKE PANEL	8'-6 1/2" (2604 mm)
C	HEIGHT TO THE TOP OF VAE ELECTRONICS RACK	8'-6 3/4" (2632 mm)
D	MINIMUM INSTALL CLEARANCE REQUIRED	8'-9" (2667 mm)

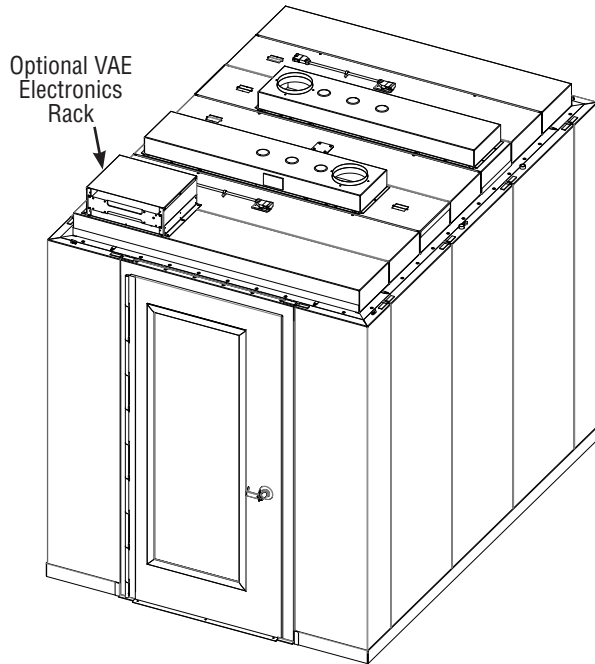
All values can be increased in 6" (15 cm) increments for taller rooms up to 10' (305 cm) interior height.

SoundLok® Sound-Isolation Rooms

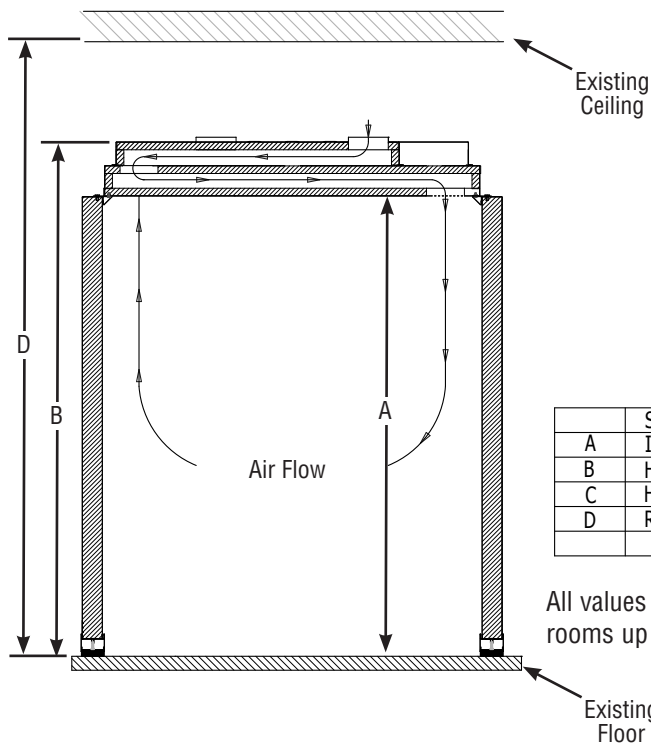
Typical Drawings

Options

Typical Module — with direct connect HVAC



- Wenger employs a modular concept in room design. Walls are constructed from interchangeable panels. Room layout can vary from the view shown. Wall, door, window, electrical and other optional panels can be arranged to customize the room.
- Wenger will design each room for optimum placement of doors, windows, electrical panels, lights and ceiling HVAC panels.
- Recommended room to room or room to wall spacing is 12" (305 mm). Closer spacing may be possible but must be reviewed by Wenger for interference, access and ventilation issues.
- Windows in adjacent rooms can be protected from glare and dust by an optional shadow box installed around the periphery of the windows.
- Larger rooms will have ceiling-mounted HVAC vents used in pairs.



	STANDARD ROOMS	HEIGHTS DIMENSIONS
A	INTERIOR CEILING HEIGHT	7'-6 1/8" (2289 mm)
B	HEIGHT TO TOP LIP OF HVAC ADAPTER (8" ROUND)	8'-6 1/2" (2604 mm)
C	HEIGHT TO THE TOP OF VAE ELECTRONICS RACK	8'-6 3/4" (2632 mm)
D	RECOMMENDED MIN CLEARANCE FOR HOOK UP HVAC	10'-7" (3226 mm)

All values can be increased in 6" (15 cm) increments for taller rooms up to 10' (305 cm) interior height.

SoundLok® Sound-Isolation Rooms

Application Information

Recommended Group Size	Outside Dimensions	Interior Floor Area	Approximate Weight w/o Floor	Fan Ventilated Rooms		HVAC Connected Rooms	
				Total Room Current Draw + (Amps)	Air Exchanges per Hour ★	Total Room Current Draw + (Amps)	Required Total Supply Air Flow ✓ (CFM)
1-2 Musicians	5'8" x 4'5" (173 x 135 cm)	18.8 ft ² (1.75 m ²)	1377 lbs (625 kg)	1.4	51	0.5	53
	6'11" x 4'5" (211 x 135 cm)	23.4 ft ² (2.17 m ²)	1514 lbs (687 kg)	1.4	41	0.5	53
	5'8" x 5'8" (173 x 173 cm)	25 ft ² (2.32 m ²)	1855 lbs (841 kg)	1.4	38	0.5	53
	6'11" x 5'8" (211 x 173 cm)	31.3 ft ² (2.91 m ²)	2057 lbs (933 kg)	1.4	31	0.5	53
	5'8" x 8'2" (173 x 249 cm)	36.7 ft ² (3.41 m ²)	2283 lbs (1036 kg)	1.9	26	1.0	53
	6'11" x 6'11" (211 x 211 cm)	39.1 ft ² (3.63 m ²)	2289 lbs (1038 kg)	1.4	25	0.5	53
	9'5" x 5'8" (287 x 173 cm)	42.9 ft ² (3.99 m ²)	2477 lbs (1124 kg)	1.9	22	1.0	65
	6'11" x 8'2" (211 x 249 cm)	45.8 ft ² (4.25 m ²)	2496 lbs (1132 kg)	1.9	21	1.0	65
Upright Piano or 3-4 Musicians	5'8" x 10'8" (173 x 325 cm)	50 ft ² (4.65 m ²)	2698 lbs (1224 kg)	2.8	39	1.0	65
	8'2" x 8'2" (249 x 249 cm)	53.8 ft ² (5.00 m ²)	2672 lbs (1212 kg)	2.8	35	1.0	105
	6'11" x 9'5" (211 x 287 cm)	53.6 ft ² (4.98 m ²)	2725 lbs (1236 kg)	2.8	35	1.0	105
	5'8" x 11'11" (173 x 363 cm)	56.3 ft ² (5.23 m ²)	2897 lbs (1314 kg)	2.8	34	1.0	105
	5'8" x 13'2" (173 x 401 cm)	61.7 ft ² (5.73 m ²)	3090 lbs (1402 kg)	3.3	31	1.5	105
	6'11" x 10'8" (211 x 325 cm)	62.5 ft ² (5.81 m ²)	2925 lbs (1327 kg)	2.8	31	1.0	105
	9'5" x 8'2" (287 x 249 cm)	62.9 ft ² (5.84 m ²)	2877 lbs (1305 kg)	2.8	29	1.0	105
	14'5" x 5'8" (439 x 173 cm)	67.9 ft ² (6.31 m ²)	3310 lbs (1501 kg)	3.3	28	1.5	105
	6'11" x 11'11" (211 x 363 cm)	70.3 ft ² (6.53 m ²)	3135 lbs (1422 kg)	2.8	27	1.0	105
	10'8" x 8'2" (325 x 249 cm)	75 ft ² (6.97 m ²)	3088 lbs (1401 kg)	2.8	26	1.0	129
	9'5" x 9'5" (287 x 287 cm)	76.6 ft ² (7.12 m ²)	3117 lbs (1414 kg)	3.6	25	1.8	129
	6'11" x 13'2" (211 x 401 cm)	77.1 ft ² (7.16 m ²)	3368 lbs (1528 kg)	3.3	37	1.5	117
	11'11" x 8'2" (363 x 249 cm)	82.5 ft ² (7.66 m ²)	3340 lbs (1515 kg)	3.3	23	1.5	129
	14'5" x 6'11" (439 x 211 cm)	84.9 ft ² (7.89 m ²)	3564 lbs (1617 kg)	4.2	22	1.5	129
	9'5" x 10'8" (287 x 325 cm)	87.5 ft ² (8.13 m ²)	3383 lbs (1535 kg)	4.5	33	1.8	129

SoundLok® Sound-Isolation Rooms

Application Information

Recommended Group Size	Outside Dimensions	Interior Floor Area	Approximate Weight w/o Floor	Fan Ventilated Rooms		HVAC Connected Rooms	
				Total Room Current Draw + (Amps)	Air Exchanges per Hour ★	Total Room Current Draw + (Amps)	Required Total Supply Air Flow ✓ (CFM)
Grand Piano or 5-6 Musicians	13'2" x 8'2" (401 x 249 cm)	90.4 ft ² (8.40 m ²)	3626 lbs (1645 kg)	4.2	31	1.5	170
	15'8" x 6'11" (478 x 211 cm)	93.7 ft ² (8.71 m ²)	3846 lbs (1745 kg)	4.2	21	1.5	170
	9'5" x 11'11" (287 x 363 cm)	96.6 ft ² (8.97 m ²)	3631 lbs (1647 kg)	4.5	29	1.8	170
	14'5" x 8'2" (439 x 249 cm)	99.6 ft ² (9.25 m ²)	3862 lbs (1752 kg)	4.2	28	1.5	158
	10'8" x 10'8" (328 x 328 cm)	100 ft ² (9.29 m ²)	3984 lbs (1807 kg)	4.7	29	2.0	170
	9'5" x 13'2" (287 x 401 cm)	105.8 ft ² (9.83 m ²)	3851 lbs (1747 kg)	4.5	26	1.8	170
	15'8" x 8'2" (478 x 249 cm)	110 ft ² (10.22 m ²)	4072 lbs (1847 kg)	4.7	26	2.0	194
	10'8" x 11'11" (328 x 363 cm)	112.5 ft ² (10.45 m ²)	4269 lbs (1936 kg)	4.7	26	2.0	170
	9'5" x 14'5" (287 x 439 cm)	116.6 ft ² (10.83 m ²)	4079 lbs (1850 kg)	4.5	24	1.8	170
	16'11" x 8'2" (516 x 249 cm)	119.2 ft ² (11.07 m ²)	4321 lbs (1960 kg)	4.7	24	2.0	170
	13'2" x 10'8" (401 x 328 cm)	123.3 ft ² (11.45 m ²)	4433 lbs (2011 kg)	4.7	23	2.0	170
	Percussion or 7-8 Musicians	11'11" x 11'11" (363 x 363 cm)	126.6 ft ² (11.76 m ²)	4544 lbs (2061 kg)	4.7	23	2.0
18'2" x 8'2" (554 x 249 cm)		127.1 ft ² (11.81 m ²)	4558 lbs (2067 kg)	4.7	23	2.0	210
9'5" x 15'8" (287 x 478 cm)		128.8 ft ² (11.97 m ²)	4346 lbs (1971 kg)	4.5	22	1.8	210
10'8" x 14'5" (328 x 439 cm)		135.8 ft ² (12.62 m ²)	4844 lbs (2197 kg)	4.7	21	2.0	210
19'5" x 8'2" (592 x 249 cm)		136.3 ft ² (12.66 m ²)	4774 lbs (2165 kg)	5.2	21	2.5	210
13'2" x 11'11" (401 x 363 cm)		138.7 ft ² (12.89 m ²)	4771 lbs (2164 kg)	4.7	21	2.0	210
9'5" x 16'11" (287 x 516 cm)		139.5 ft ² (12.96 m ²)	4602 lbs (2087 kg)	5.4	20	2.7	234
20'8" x 8'2" (630 x 249 cm)		146.6 ft ² (13.62 m ²)	4990 lbs (2263 kg)	5.2	20	2.5	234
18'2" x 9'5" (554 x 287 cm)		148.8 ft ² (13.82 m ²)	4882 lbs (2214 kg)	5.4	19	2.7	234
15'8" x 10'8" (478 x 328 cm)		150 ft ² (13.94 m ²)	4849 lbs (2199 kg)	5.5	19	2.8	234
13'2" x 13'2" (401 x 401 cm)		152.1 ft ² (14.13 m ²)	5072 lbs (2301 kg)	5.7	19	3.0	234
11'11" x 14'5" (363 x 439 cm)		152.8 ft ² (14.20 m ²)	5112 lbs (2319 kg)	4.7	19	2.0	234
21'11" x 8'2" (668 x 249 cm)		155.8 ft ² (14.47 m ²)	5224 lbs (2370 kg)	5.2	19	2.5	234

SoundLok® Sound-Isolation Rooms

Application Information

Recommended Group Size	Outside Dimensions	Interior Floor Area	Approximate Weight w/o Floor	Fan Ventilated Rooms		HVAC Connected Rooms	
				Total Room Current Draw + (Amps)	Air Exchanges per Hour ★	Total Room Current Draw + (Amps)	Required Total Supply Air Flow ✓ (CFM)
9-10 Musicians	9'5" x 19'5" (287 x 592 cm)	159.5 ft ² (14.82 m ²)	5155 lbs (2338 kg)	5.4	18	2.7	299
	10'8" x 16' 11" (325 x 516 cm)	162.5 ft ² (15.10 m ²)	5518 lbs (2503 kg)	5.7	18	3.0	275
	23'2" x 8'2" (706 x 249 cm)	163.8 ft ² (15.22 m ²)	5528 lbs (2507 kg)	5.7	18	3.0	275
	13'2" x 14'5" (401 x 439 cm)	167.5 ft ² (15.56 m ²)	5453 lbs (2473 kg)	5.7	17	3.0	275
	15'8" x 11'11" (478 x 363 cm)	168.8 ft ² (15.68 m ²)	5280 lbs (2395 kg)	5.5	17	2.8	275
	20'8" x 9'5" (630 x 287 cm)	171.7 ft ² (15.95 m ²)	5333 lbs (2419 kg)	6.3	17	3.6	299
	24'5" x 8'2" (744 x 249 cm)	172.9 ft ² (16.06 m ²)	5745 lbs (2606 kg)	5.7	17	3.0	299
	18'2" x 10'8" (554 x 325 cm)	173.3 ft ² (16.10 m ²)	5328 lbs (2417 kg)	6.3	17	3.6	299
	21'11" x 9'5" (668 x 287 cm)	182.4 ft ² (16.95 m ²)	5595 lbs (2538 kg)	6.3	16	3.6	275
	11'11" x 16'11" (363 x 516 cm)	182.8 ft ² (16.98 m ²)	5804 lbs (2633 kg)	5.7	16	3.0	275
	14'5" x 14'5" (439 x 439 cm)	184.5 ft ² (17.14 m ²)	5671 lbs (2572 kg)	5.5	15	2.8	275
	13'2" x 15'8" (401 x 478 cm)	185 ft ² (17.19 m ²)	5731 lbs (2600 kg)	5.7	15	3.0	275
	19'5" x 10'8" (592 x 325 cm)	185.8 ft ² (17.26 m ²)	6111 lbs (2772 kg)	6.7	16	4.0	299
	23'2" x 9'5" (706 x 287 cm)	191.7 ft ² (17.81 m ²)	5817 lbs (2639 kg)	6.3	15	3.6	299
	18'2" x 11'11" (554 x 363 cm)	195 ft ² (18.12 m ²)	5710 lbs (2590 kg)	6.3	15	3.6	299

SoundLok® Sound-Isolation Rooms

Application Information

Recommended Group Size	Outside Dimensions	Interior Floor Area	Approximate Weight w/o Floor	Fan Ventilated Rooms		HVAC Connected Rooms	
				Total Room Current Draw + (Amps)	Air Exchanges per Hour ★	Total Room Current Draw + (Amps)	Required Total Supply Air Flow ✓ (CFM)
11-12 Musicians	20'8" x 10'8" (630 x 325 cm)	200 ft ² (18.58 m ²)	6185 lbs (2805 kg)	5.7	15	3.0	299
	13'2" x 16'11" (401 x 516 cm)	200.4 ft ² (18.62 m ²)	6033 lbs (2737 kg)	6.6	19	3.0	315
	24'5" x 9'5" (744 x 287 cm)	202.4 ft ² (18.80 m ²)	6045 lbs (2742 kg)	7.2	19	3.6	352
	15'8" x 14'5" (478 x 439 cm)	203.8 ft ² (18.93 m ²)	5920 lbs (2685 kg)	6.4	19	2.8	352
	11'11" x 19'5" (363 x 592 cm)	209 ft ² (19.42 m ²)	6411 lbs (2908 kg)	7.6	18	4.0	315
	18'2" x 13'2" (554 x 401 cm)	213.8 ft ² (19.86 m ²)	6018 lbs (2730 kg)	7.2	18	3.6	340
	25'8" x 9'5" (782 x 287 cm)	214.6 ft ² (19.94 m ²)	6261 lbs (2840 kg)	8.1	18	4.5	352
	14'5" x 16'11" (439 x 516 cm)	220.7 ft ² (20.50 m ²)	6305 lbs (2860 kg)	7.8	17	4.2	352
	23'2" x 10'8" (706 x 325 cm)	223.3 ft ² (20.75 m ²)	6378 lbs (2893 kg)	8.2	17	4.6	352
	15'8" x 15'8" (478 x 478 cm)	225 ft ² (20.90 m ²)	6208 lbs (2816 kg)	7.8	17	4.2	352
	20'8" x 11'11" (630 x 363 cm)	225 ft ² (20.90 m ²)	6666 lbs (3024 kg)	8.1	17	4.5	352
	13'2" x 19.5" (401 x 592 cm)	229.2 ft ² (21.29 m ²)	6658 lbs (3020 kg)	7.6	16	4.0	340
	18'2" x 14'5" (554 x 439 cm)	235.4 ft ² (21.87 m ²)	6356 lbs (2883 kg)	7.2	16	3.6	340
	24'5" x 10'8" (744 x 325 cm)	235.8 ft ² (21.91 m ²)	6764 lbs (3068 kg)	8.2	16	4.6	340
	21'11" x 11'11" (668 x 363 cm)	239 ft ² (22.20 m ²)	6863 lbs (3113 kg)	8.1	16	4.5	340

SoundLok® Sound-Isolation Rooms

Application Information

Recommended Group Size	Outside Dimensions	Interior Floor Area	Approximate Weight w/o Floor	Fan Ventilated Rooms		HVAC Connected Rooms	
				Total Room Current Draw + (Amps)	Air Exchanges per Hour ★	Total Room Current Draw + (Amps)	Required Total Supply Air Flow ✓ (CFM)
Ensembles of 13-15 Musicians	16'11" x 15'8" (516 x 478 cm)	243.8 ft ² (22.65 m ²)	6532 lbs (2963 kg)	7.8	16	4.2	340
	20'8" x 13'2" (630 x 401 cm)	246.7 ft ² (22.92 m ²)	7031 lbs (3189 kg)	8.1	16	4.5	340
	25'8" x 10'8" (782 x 325 cm)	250 ft ² (22.23 m ²)	7023 lbs (3186 kg)	8.2	15	4.6	412
	23'2" x 11'11" (706 x 363 cm)	251.2 ft ² (23.34 m ²)	6875 lbs (3118 kg)	8.2	15	4.6	412
	14'5" x 19'5" (439 x 592 cm)	252.4 ft ² (23.45 m ²)	7019 lbs (3184 kg)	7.8	15	4.2	412
	18'2" x 15'8" (554 x 478 cm)	260 ft ² (24.15 m ²)	6751 lbs (3062 kg)	7.2	15	3.6	400
	21'11" x 13'2" (668 x 401 cm)	262.1 ft ² (24.35 m ²)	7348 lbs (3333 kg)	8.1	15	4.5	412
	16'11" x 16'11" (516 x 516 cm)	264.1 ft ² (24.54 m ²)	6934 lbs (3145 kg)	7.8	15	4.2	412
	24'5" x 11'11" (744 x 363 cm)	265.3 ft ² (24.65 m ²)	7332 lbs (3326 kg)	8.2	15	4.6	412
	20'8" x 14'5" (630 x 439 cm)	271.7 ft ² (25.24 m ²)	7543 lbs (3421 kg)	8.1	15	4.5	412
	15'8" x 19'5" (478 x 592 cm)	278.8 ft ² (25.90 m ²)	7265 lbs (3295 kg)	7.8	14	4.2	412
	23'2" x 13'2" (706 x 401 cm)	275.4 ft ² (25.59 m ²)	7234 lbs (3281 kg)	8.2	14	4.6	449
	25'8" x 11'11" (782 x 363 cm)	281.2 ft ² (26.12 m ²)	7541 lbs (3421 kg)	8.2	14	4.6	449
	18'2" x 16'11" (554 x 516 cm)	281.7 ft ² (26.17 m ²)	7148 lbs (3242 kg)	9.0	14	5.4	449
	21'11" x 14'5" (668 x 439 cm)	288.6 ft ² (26.81 m ²)	7789 lbs (3533 kg)	8.1	14	4.5	449
	24'5" x 13'2" (744 x 401 cm)	290.9 ft ² (27.03 m ²)	7734 lbs (3508 kg)	8.2	13	4.6	449
	20'8" x 15'8" (630 x 478 cm)	300 ft ² (27.87 m ²)	7908 lbs (3587 kg)	8.1	13	4.5	449
	18'2" x 18'2" (554 x 554 cm)	300.4 ft ² (27.91 m ²)	7546 lbs (3423 kg)	9.0	13	5.4	449
	23'2" x 14'5" (706 x 439 cm)	303.3 ft ² (28.18 m ²)	7686 lbs (3486 kg)	8.2	13	4.6	449
	16'11" x 19'5" (516 x 592 cm)	302 ft ² (28.06 m ²)	7588 lbs (3442 kg)	8.3	13	4.7	424
	25'8" x 13'2" (782 x 401 cm)	308.3 ft ² (28.64 m ²)	7953 lbs (3607 kg)	8.2	13	4.6	424
	21'11" x 15'8" (668 x 478 cm)	318.8 ft ² (29.62 m ²)	8166 lbs (3704 kg)	9.1	13	5.5	424
	24'5" x 14'5" (744 x 439 cm)	320.3 ft ² (29.76 m ²)	8165 lbs (3704 kg)	8.2	12	4.6	424
	18'2" x 19'5" (554 x 592 cm)	322.1 ft ² (29.92 m ²)	7799 lbs (3538 kg)	9.9	15	5.4	449
	20'8" x 16'11" (630 x 516 cm)	325 ft ² (30.19 m ²)	8376 lbs (3799 kg)	9.6	12	6.0	449
	23'2" x 15'8" (706 x 478 cm)	335 ft ² (31.12 m ²)	8424 lbs (3821 kg)	11.4	12	6.9	449
	25'8" x 14'5" (782 x 439 cm)	339.6 ft ² (31.55 m ²)	8502 lbs (3856 kg)	9.6	11	5.1	449
	21'11" x 16'11" (668 x 516 cm)	345.3 ft ² (32.08 m ²)	8688 lbs (3941 kg)	10.5	14	6.0	516
	20'8" x 18'2" (630 x 554 cm)	346.7 ft ² (32.21 m ²)	8794 lbs (3989 kg)	10.5	14	6.0	516
	19'5" x 19'5" (592 x 592 cm)	351.5 ft ² (32.66 m ²)	8847 lbs (4013 kg)	10.5	14	6.0	516
	24'5" x 15'8" (744 x 478 cm)	353.8 ft ² (32.87 m ²)	8694 lbs (3944 kg)	11.4	14	6.9	516

SoundLok® Sound-Isolation Rooms

Application Information

Recommended Group Size	Outside Dimensions	Interior Floor Area	Approximate Weight w/o Floor	Fan Ventilated Rooms		HVAC Connected Rooms	
				Total Room Current Draw + (Amps)	Air Exchanges per Hour ★	Total Room Current Draw + (Amps)	Required Total Supply Air Flow ✓ (CFM)
Ensembles of 16-18 Musicians	23'2" x 16'11" (706 x 516 cm)	362.9 ft ² (33.71 m ²)	9169 lbs (4159 kg)	11.4	13	6.9	516
	21'11" x 18'2" (668 x 554 cm)	368.3 ft ² (34.22 m ²)	9066 lbs (4112 kg)	10.5	13	6.0	516
	20'8" x 19'5" (630 x 592 cm)	371.7 ft ² (34.53 m ²)	9253 lbs (4197 kg)	10.5	13	6.0	558
	25'8" x 15'8" (782 x 478 cm)	375 ft ² (34.84 m ²)	8965 lbs (4066 kg)	11.4	13	6.9	558
	24'5" x 16'11" (744 x 516 cm)	383.2 ft ² (35.60 m ²)	9169 lbs (4159 kg)	11.4	13	6.9	558
	23'2" x 18'2" (706 x 554 cm)	387.1 ft ² (35.96 m ²)	9278 lbs (4208 kg)	11.4	12	6.9	580
	21'11" x 19'5" (668 x 592 cm)	394.9 ft ² (36.69 m ²)	9579 lbs (3445 kg)	12.4	15	7.0	580
Ensembles of 19-20 Musicians	25'8" x 16'11" (782 x 516 cm)	406.2 ft ² (37.74 m ²)	9410 lbs (4268 kg)	12.3	14	6.9	610
	24'5" x 18'2" (744 x 554 cm)	408.8 ft ² (37.98 m ²)	9570 lbs (4341 kg)	12.3	14	6.9	610
	23'2" x 19'5" (706 x 592 cm)	415.1 ft ² (38.56 m ²)	9730 lbs (4413 kg)	12.3	14	6.9	610
	25'8" x 18'2" (782 x 554 cm)	433.3 ft ² (40.25 m ²)	9897 lbs (4489 kg)	12.3	13	6.9	650
	24'5" x 19'5" (744 x 592 cm)	438.2 ft ² (40.71 m ²)	10083 lbs (4574 kg)	12.3	13	6.9	650
	25'8" x 19'5" (782 x 592 cm)	464.6 ft ² (43.16 m ²)	10339 lbs (4690 kg)	12.3	12	6.9	650

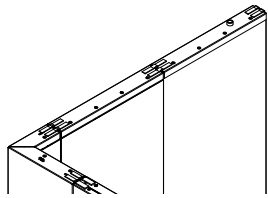
All values are for standard height rooms, 7'6" (229 cm).

Indicates room sizes that cannot accommodate practice rooms with VAE technology.

- + Includes lights, fans (if applicable). For virtual acoustics add 1-amp if applicable. Each power panel is to have it's own dedicated 20 amp circuit. All rooms have one power panel. Larger rooms may have one additional power panel. Extra communications panel included in larger rooms:
 - One included in rooms larger than 125 ft² (11.6 m²).
 - Two included in rooms larger than 250 ft² (23.2 m²).
 - Three included in rooms larger than 375 ft² (34.8 m²).
- ★ Integral fan panel and vent panel pairs provide approximately 120 CFM airflow, each. Supply air is drawn at ambient conditions from the exterior of the room at ceiling level. Larger rooms will have more than one fan/vent pair.
- ✓ Air flow requirement based on occupancy, room volume and electrical heat load. Cooling airflow to be 55°F (13°C) Room exterior ambient to be maintained at 75°F (24°C). In larger rooms, airflow will be divided between multiple supply and exhaust pairs. Pressure drop per supply/exhaust pair: 0.10"WG at 120 CFM maximum. For additional electrical devices, add 15 CFM for each 100 watts of power dissipated in the room. Individual room thermostatic control is recommended.

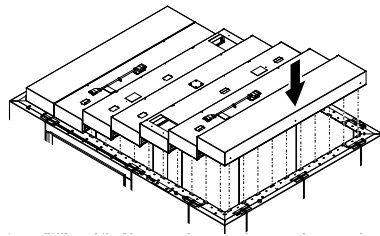
SoundLok® Sound-Isolation Rooms

Typical Drawings



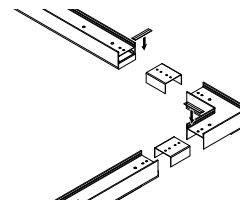
Wall Panels

4" (10 cm) thick by 30" (76 cm) wide, and filled with sound-absorbing material. Interior surfaces are perforated or sound-reflecting.



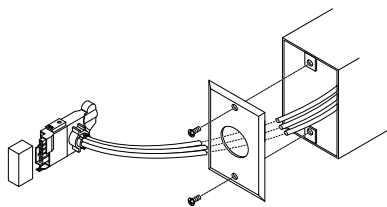
Ceiling Panels

6" (15 cm) thick by 15" (381 mm) wide in modular lengths. Panels are shipped with light fixtures attached and wired. Sprinkler system knock-out holes standard in all rooms.



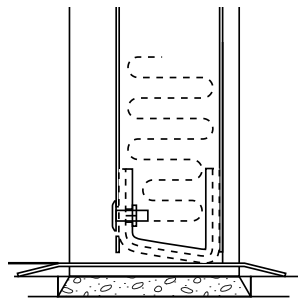
Adjustable Wall Frame

4-1/2" x 3-5/8" (114 x 92 mm) in modular lengths. A 1-1/4" (32 mm) thick neoprene pad isolates the module from the floor, thereby reducing sound transmission through the building structure. Frame allows for up to 3/4" (19 mm) adjustment for uneven floors.



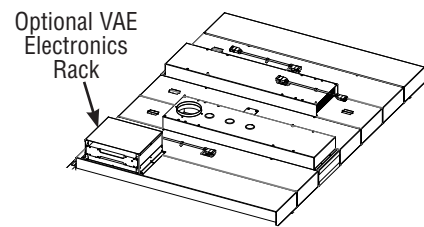
20-amp Electrical Service

The rooms are designed with an integrated UL® classified electrical wiring system. Distribution connector supplied by Wenger. Connector to be installed by a certified electrician.



Adjustable Sweep Seal

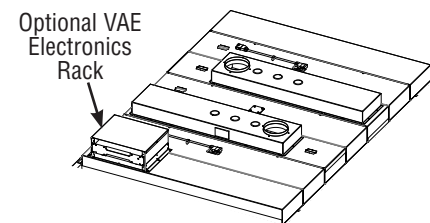
Located at the door base to provide a positive sound barrier. Low profile threshold 1/2" (13 mm) allows easy access. Double gasket (compression and magnetic) at head and side jambs.



Built-in Fans

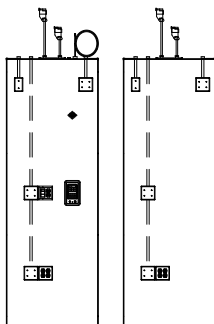
Accessible from inside practice rooms through a removable panel cover for cleaning or replacement.

Or



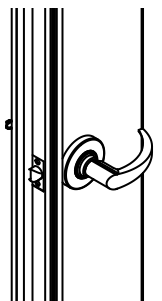
HVAC Direct connection

Acoustically isolated HVAC connections.



Power Panel and Communications Panel

The power panel can be configured to include outlets, VAE Technology controls, controls for lights and fans. Optional Communications Panel available. Contact Wenger for details.



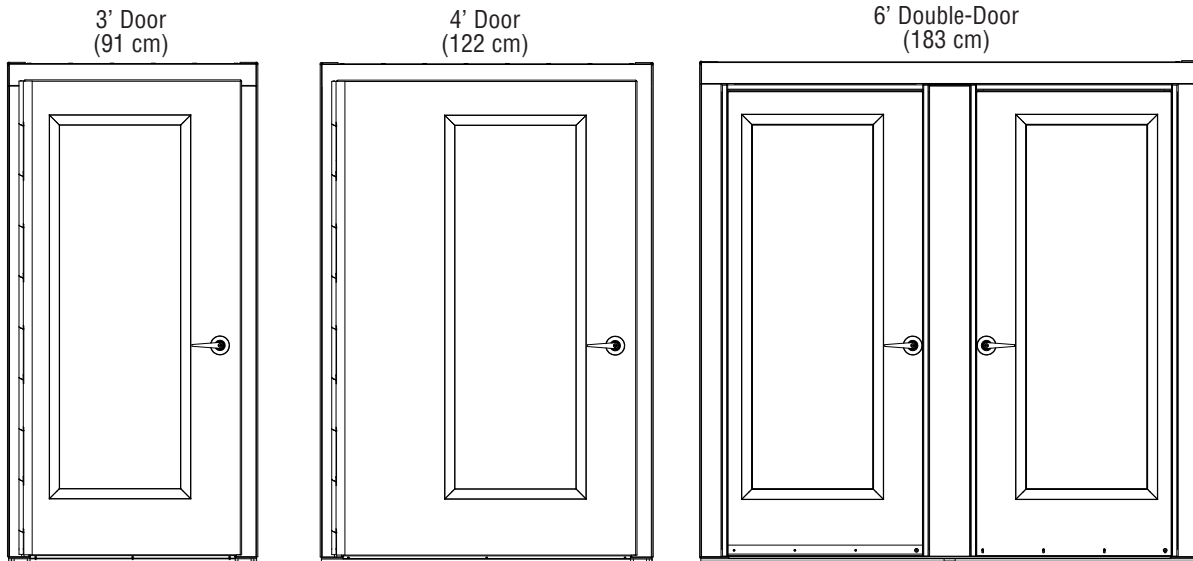
Classroom-Function Door Lever Set

Additional door lever sets are available, contact Wenger for detailed lever set information.

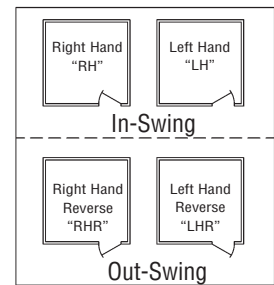
SoundLok® Sound-Isolation Rooms

Typical Drawings

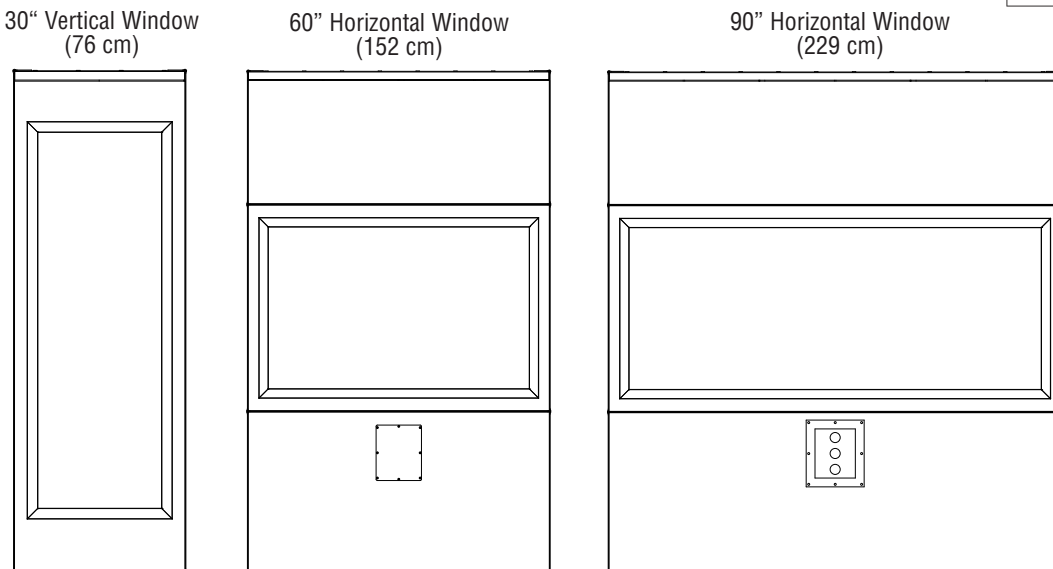
Doors



Door Swing Options



Windows

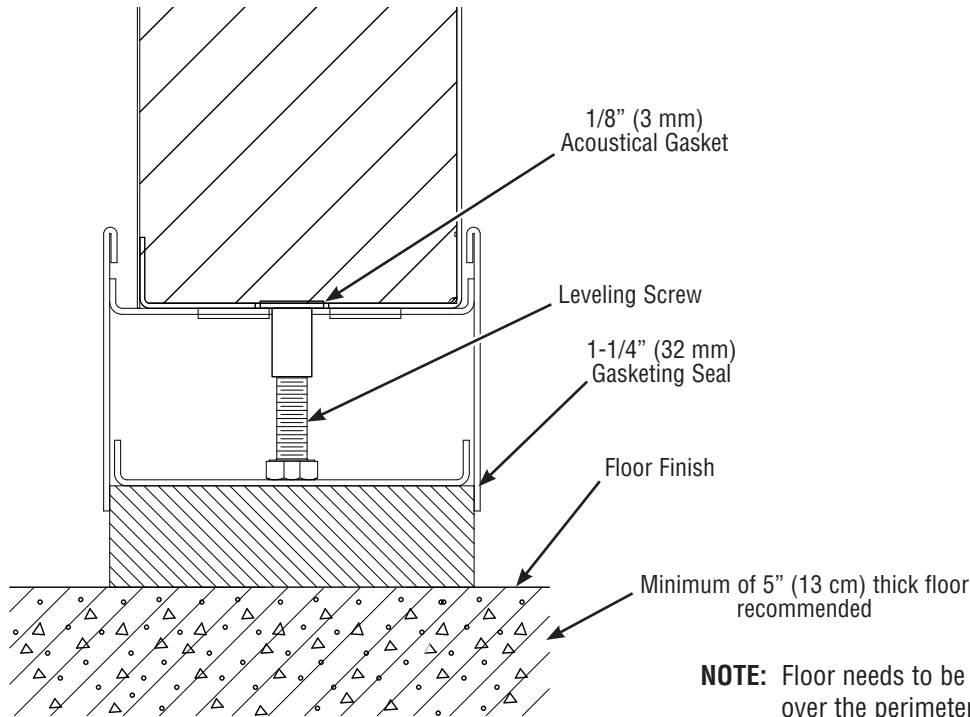


NOTE: Cable raceways are available in an offset or straight feed through for back-to-back installations.

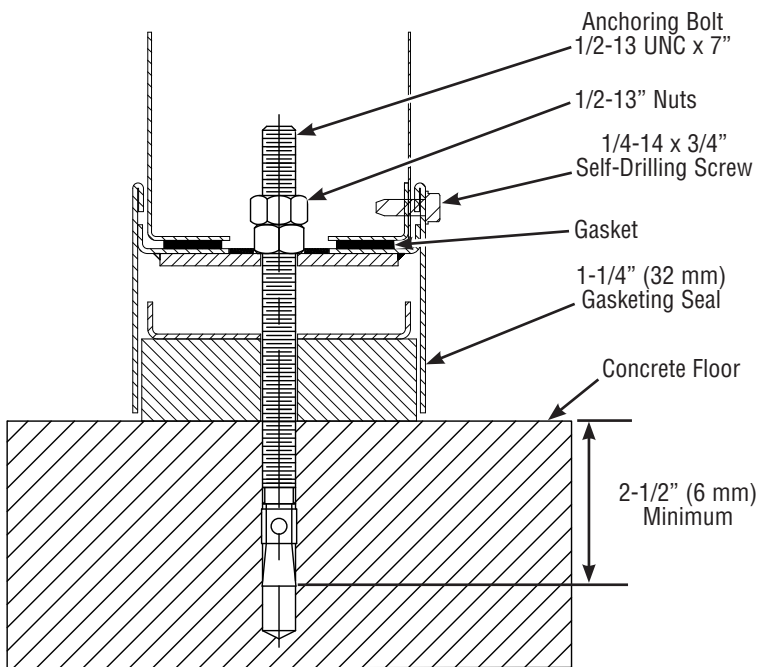
SoundLok® Sound-Isolation Rooms

Typical Drawings

Typical wall cross section of module on existing floor finished by others



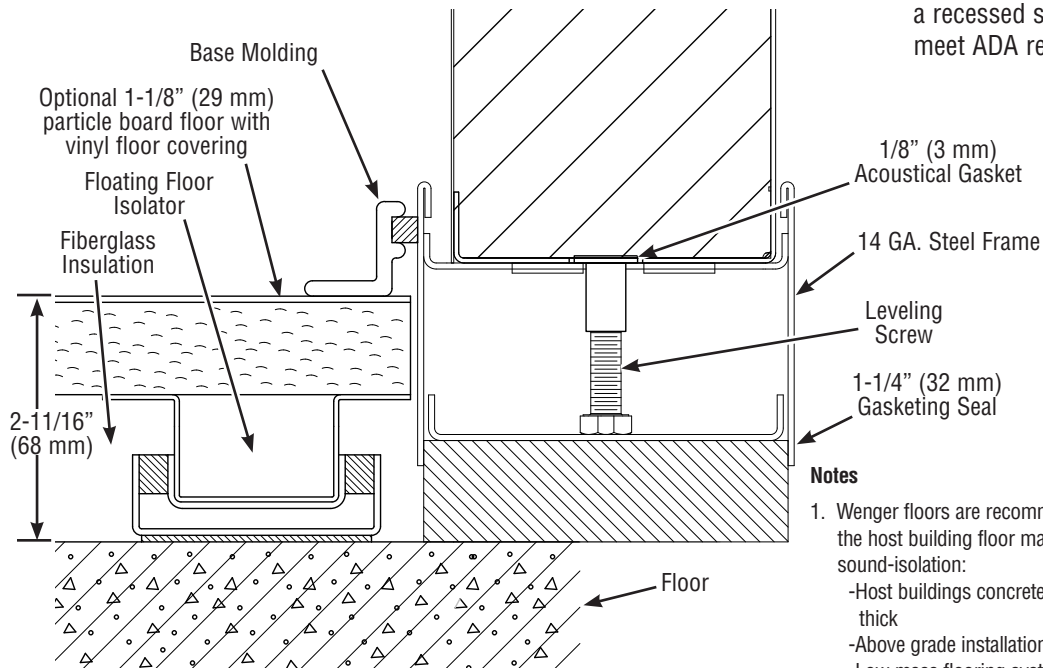
Typical wall cross section of seismic floor anchoring



SoundLok® Sound-Isolation Rooms

Typical Drawings

Typical wall cross section of optional floating floor

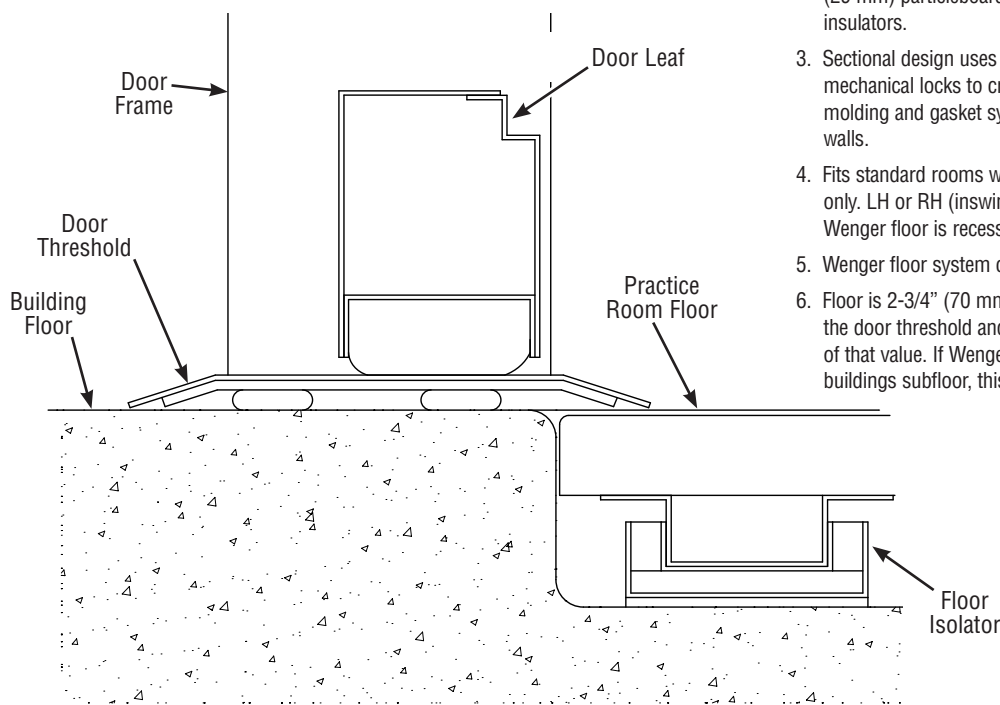


NOTE: If optional Wenger floor is required, a recessed subfloor is required to meet ADA requirements.

Notes

1. Wenger floors are recommended for installations where the host building floor may not provide adequate sound-isolation:
 - Host buildings concrete floor is less than 5" (127 mm) thick
 - Above grade installations
 - Low mass flooring systems
 - Applications desiring additional sound-reduction through the floor.
2. Floor system consists of vinyl flooring over 1-1/8" (29 mm) particleboard subfloor floating on resilient insulators.
3. Sectional design uses both interlocking supports and mechanical locks to create a monolithic subfloor. A base molding and gasket system seals the floor to the rooms walls.
4. Fits standard rooms with RHR or LHR (outswing) doors only. LH or RH (inswing) doors can be used only if Wenger floor is recessed into host building subfloor.
5. Wenger floor system can often be added later if desired.
6. Floor is 2-3/4" (70 mm) thick creating a step up at the door threshold and a reduction of ceiling clearance of that value. If Wenger floor is recessed into host buildings subfloor, this situation is eliminated.

Typical wall cross section of recessed floor



NOTE: Optional Wenger recessed subfloor may be required to meet ADA requirements.

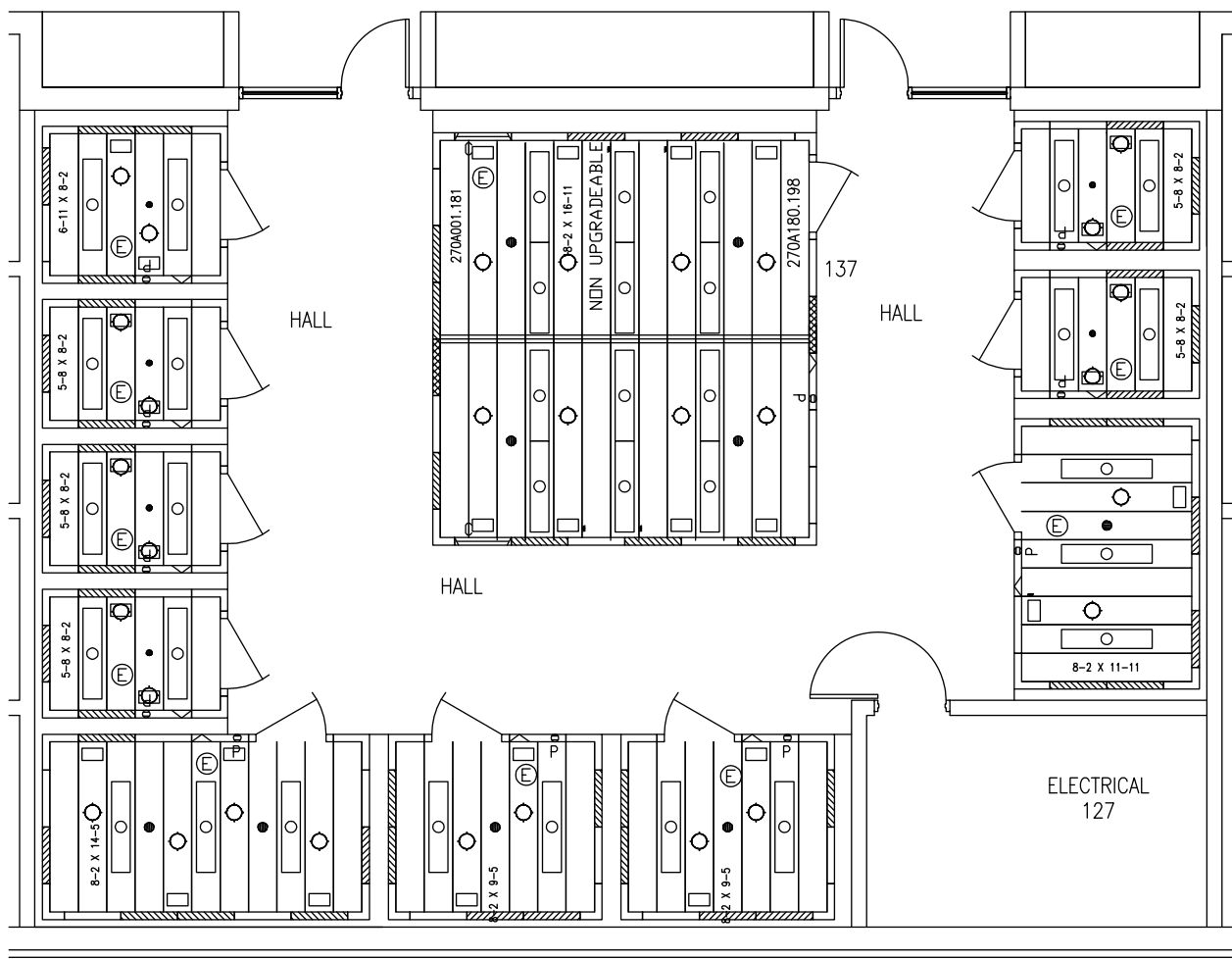
Contact Wenger for more information on optional floor applications.

SoundLok® Sound-Isolation Rooms

Typical Drawings

Practice Area Layout

- Wenger practice rooms can be configured in a number of sizes.
- Most musicians practice alone, so there should be a number of smaller practice rooms.
- There should also be a variety of practice rooms sized for pianos, small groups, and ensembles.
- The central hallway should be large enough to let musicians carrying instruments easily pass each other and also accommodate larger instruments like a piano or timpani.
- 1'-0" (30 cm) is recommended between rooms to achieve acoustical isolation ratings.



Sample practice area layout.

Key

= Corner Panels (Perforated)	= 30" Power Panel	= Ceiling Air Intake/Exhaust Panel
= 30" Beam Support Panel	= 30" Communications Panel	= Ceiling Air Intake/Exhaust Panel with Sprinkler Knockout
= 30" Perforated Wall Panel	= Door	= Ceiling with Light
= 30" Solid Wall Panel	= 115V-20 amp House Service (to be installed by others)	= Ceiling Air Panel with Sprinkler Knockout

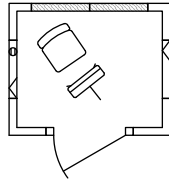
SoundLok® Sound-Isolation Rooms

Typical Drawings

Practice Area Layout

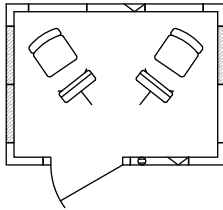
Individual Practice

Outside dimensions
6'11" x 5'8" (211 x 173 cm)



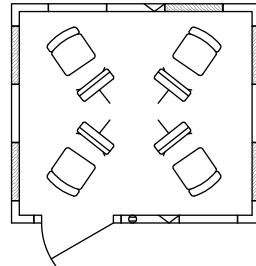
1-2 Students

Outside dimensions
6'11" x 9'5" (211 x 113 cm)



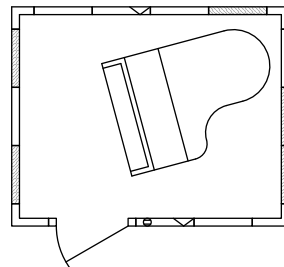
Upright Piano or 3-4 Students

Outside dimensions
9'5" x 10'8" (113 x 325 cm)



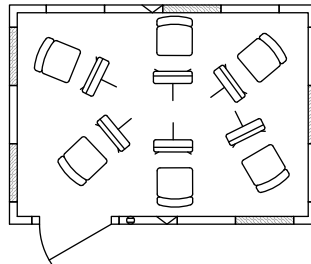
Grand Piano or 5-6 Students

Outside dimensions
9'5" x 11'11" (113 x 363 cm)



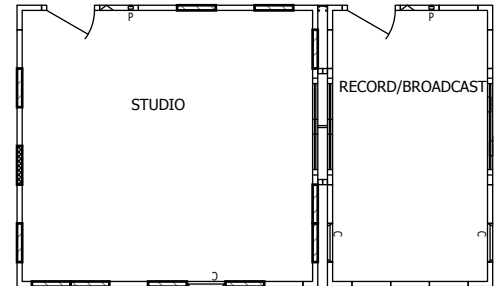
Grand Piano or 5-6 Students

Outside dimensions
9'5" x 13'2" (113 x 401 cm)

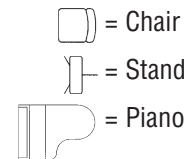


Recording/Broadcast

Outside dimensions
18'2" x 30'8½" (554 x 936 cm)



Key



Virtual Acoustical Environments® (VAE)



Wenger®
Your Performance Partner

Virtual Acoustical Environments® (VAE)

Virtual Acoustical Environments

Practice, practice, practice. You can say it with dread or – after a single session with VAE technology – you can say it with passion. It's true. The acoustical environment is so stunning that it is inspiring people to practice like never before.

And what could be better than practicing in a variety of performance environments? That's what you can do with the preset acoustical simulations. And when you want to switch to a different acoustical setting, just push a button.

Wenger's VAE Rehearsal System uses highly advanced active acoustics to simulate nine different acoustic environments - at the touch of a button. We can custom program any of the nine presets to simulate other acoustic environments of your choosing, even one that simulates your school's auditorium.

A Wenger practice room with VAE technology accelerates the development of critical skills such as articulation, phrasing, intonation, and tone production. Wenger practice rooms with VAE technology provide real-time recording and playback of nine sessions for two hours of total length. An optional foot switch gives you hands-free control, anywhere in the room. You can also upload or download recorded programs through a USB connection.

And Wenger practice rooms with VAE technology provide exceptional sound isolation in a classic, sophisticated design that's also modular, so you can take it with you, whether you move to another room or building.

VAE Technology For Acoustical Simulations

- Nine virtual acoustical simulations of performance spaces.
- Simple push-button operation with recording/playback control.
- Includes eight speakers, two microphones, control panel, left and right channel processing components, and cables.

Product Details

- State-of-the-art acoustical simulation package is prewired into rehearsal rooms or practice rooms that are modular and relocatable.
- While our practice rooms deliver superior sound isolation, these are specially equipped with preset acoustical simulations:
 - Practice Room
 - Baroque Room
 - Small Auditorium
 - Large Auditorium
 - Large Recital Hall
 - Custom environments available with VAE Rehearsal System
 - Five-year warranty.
 - Arena
 - Cathedral
 - Medium Auditorium
 - Medium Recital Hall
 - Recording/Playback capabilities.

Imagine practicing in a recital hall one minute, a concert hall the next. That's the advantage of Wenger VAE technology.

VAE Rehearsal Panel Capable of record and playback of nine sessions for three hours of total length.



Presets for nine distinct virtual acoustic environments.

SoundLok and VAE Studio Panel Capable of record and playback of nine sessions for two hours of total length.



Presets for nine distinct virtual acoustic environments.

Foot control connection for hands-free operation.

USB connection for uploading and downloading recorded programs.

Mini stereo output jack for real-time recording.



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SoundLok® and VAE® Studio Panel

General Information

- A sound-isolation practice room equipped with patented digital signal processing that allows musicians to hear themselves in a variety of acoustical environments.
- Traditional dry practice room (system off) with 9 preset acoustical environments: Practice Room, Arena, Baroque Hall, Cathedral, Small Auditorium, Medium Auditorium, Large Auditorium, Medium Recital Hall, and Large Recital Hall.
- Accelerates development of articulation, intonation, and control in a variety of environments from very “dry” to very “live”.
- Effective teaching/coaching studio to train students in the relationship between the acoustical environment and instrumental and choral technique.
- Control panel: one 18-button control panel. Nine acoustical environments, volume up and down, system mute (OFF), stop, record, play, rewind, fast forward and select. UL® Listed.
- Does not require any technical expertise to operate the room — as easy as operating a TV remote control.

General Specifications

- Dimensions: VAE is available in several sized rooms ranging from 5’8” x 5’8” to 18’2” x 19’5” (173 x 173 cm to 554 x 592 cm).
- Interior ceiling height ranges from 7’6” (229 cm) to 10’0” (305 cm) in 6” (15 cm) increments.
- Weight: 2,200 lbs. to 4,150 lbs. (998 to 1882 kg.) depending upon room size.
- UL®-Classified room wiring system.
- Surfaces: powder-coat painted. Color chosen from manufacturer’s standard colors.
- Lighting: florescent lighting with electronic ballast.
- Sound isolation: NIC = 41 Hallway to room.
NIC = 63 Room to room.
- Sound isolation door: STC = 46, with a full window.
- Internal fan ventilation system: NC 25.
- Direct connection HVAC (optional): acoustically isolated HVAC connections of STC 45.
- Wall and ceiling panels UL® Class 1 classification for flame spread and smoke developed.

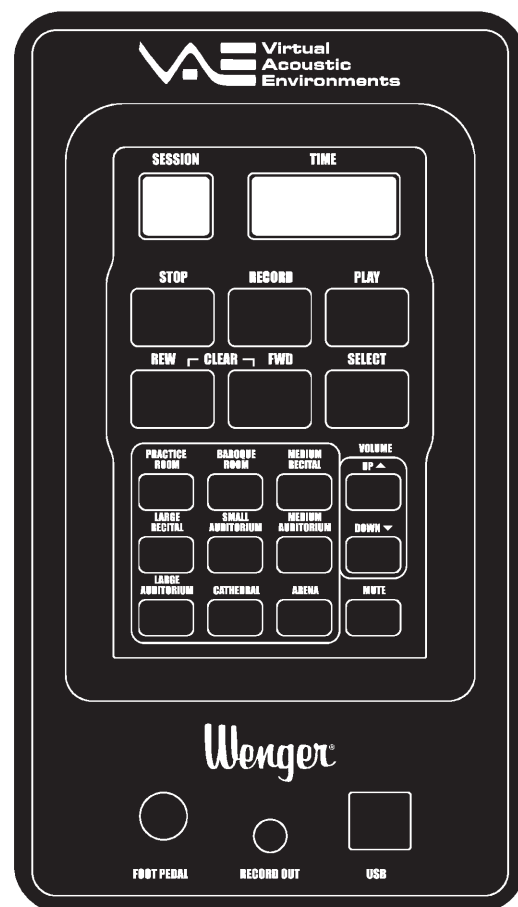
Control System

- Lighting, room ventilation fans and master power for active acoustical system each individually controlled by an on/off toggle switch. UL® Classified, CSA-approved.
- Optional occupancy sensor lighting control.

Practice Rooms With VAE Technology Electronics

- Power consumption (steady state).
Nominal 500mA @ 120V, 60Hz.
Maximum surge at turn on: 20A @ 2 msec
(time to steady state: 10 msec).

Complete system details are available in the product specification. Contact Wenger for more information.



Virtual Acoustic Environments® (VAE)

Application Information

Studio VAE® System

Studio VAE is an affordable, easy-to-install package for your own small practice or teaching space. The Studio system components offer all the same features and technology of the VAE Practice in a kit that can be installed in just about any room less than 200 square feet.

Wenger's Studio VAE allows you to convert an existing faculty studio or built-in practice room to one that incorporates the acoustic simulation capabilities of our VAE technology.

While quality sound isolation rooms like SoundLok are recommended, when new installation or construction are unfeasible, Studio VAE is a great option. Your students will be amazed, they will be inspired to practice more!

General Information

- Ideal for practice rooms, private teaching studios or any office where music lessons are given.
- Nine acoustical performance environments available;
Practice Room, Baroque Room, Medium Recital Hall, Large Recital Hall, Small Auditorium, Medium Auditorium, Large Auditorium, Cathedral and Arena.
- Record/Playback feature allows musician to get immediate feedback during practice session, and allows the instructor to use in development of articulation, intonation, and other areas of music pedagogy.
- Ability to record up to nine sessions (two hours of total record time).
- Includes a system of speakers located in each corner of the room that blends aesthetically with the room (eight total speakers, two in each speaker box).
- Provides a sense of envelopment that allows musicians to hear themselves more clearly.
- Two microphones placed on opposite walls and hidden from view in absorber panel.
- Easy-to-use control panel allows for quick selection of acoustic environment, volume adjustment and navigation of recording/playback function.
- Microphone panels and speaker grill covers are provided in black. Other fabric color options are available (additional fees may apply).
- Installation includes all wiring, flex conduit, connectors and fasteners. Wire molding will be provided to cover any surface mounted cable.
- Available for spaces up to 200 ft² (18.6 m²).
- System must be installed and calibrated by Wenger.
- Five-year warranty.
 - VAE Digital Processor
 - Four speaker enclosures with fabric grill covers
 - Two microphone wall absorber panels 1' x 2' x 3" thick (305 mm x 610 mm x 76 mm)
 - VAE Control Panel
 - Control Panel cable, speaker wires, cable connectors and wire mold kit.



VAE® Rehearsal System

School auditoriums are heavily scheduled places. So trying to find time for your choral and instrumental groups to practice on stage can be difficult. The same goes when you are preparing for a special occasion in a large performance venue. Practicing in the dry environment of your rehearsal room can be limiting – unless you have VAE Rehearsal.

Easing the transition from the rehearsal to the performance environment allows students to focus more on the skills and habits they've developed in rehearsal and less on the unfamiliar performance space.

VAE Rehearsal comes with the same capabilities as all our VAE systems and includes the ability to be programmed to mirror the acoustics of your own auditorium.

General Information

- Virtual Acoustics Environment technology designed for music rehearsal rooms that allow musicians to hear themselves in a variety of performance environments.
- System comes with eight pre-set environments: Baroque Room, Medium Recital Hall, Large Recital Hall, Small Auditorium, Medium Auditorium, Large Auditorium, Cathedral and Sports Arena.
- Includes one customizable setting of specific performance space determined by customer.
- Creates a space where performers can rehearse in the acoustics of performance areas when the actual performance space is not available.
- A practical acoustic lab where musicians can study the relationship between their music and the spaces in which they perform.
- System includes record/playback feature with immediate feedback, which provides effective teaching tool to train students in the relationship between the acoustical environment and playing/singing technique.
- Stimulates creativity and encourages practice by relieving the tedium of playing/singing in a “dry” space.
- Ability to upload accompaniments and download recording sessions.
- Complete turn-key installation, including all electrical components, system tuning, and wiring/mounting of all speakers and microphones. Also includes installation of acoustical absorber panels and NRC rated .95 acoustical ceiling tiles if needed.
- System includes lockable, front and rear access, portable or wall-mounted component rack for all system components, including VAE digital signal processor, power sequencer, amplifiers and ventilation fan.
- Five-year warranty.



Virtual Acoustic Environments® (VAE)

Application Information

VAE® Rehearsal Panel

System Components

Harman Amplifiers

- Channels: 8
- Sensitivity: 1.4V (26db gain)
- Rated power output: 125W per channel into 8/4 ohms
- Signal to noise ratio:
(below rated power 20Hz to 20kHz, A-weighted): 110 db
- Dimensions: 19" w x 5.25" h x 16.25" d (48 x 13 x 41 cm)
- Weight: 36 lbs (16.3 kg)

Harman In-Wall Speakers

- Frequency response: (-10db) half-space wall:
30 – 20kHz
- Sensitivity: 90db SPL, 1W, 1m
- Continuous program power capacity: 120 watts
- Designed for mounting in stud walls,
optional stud wall frame available
- Dimensions: 10.1" w x 13.1" h x 4.3" d (26 x 33 x 11 cm)
- Weight: 4.5 lbs (2.0 kg)

Harman Wall-Mount Speakers

- Frequency response: (-10db) half-space wall:
60 – 16kHz
- Sensitivity: 92db SPL, 1W, 1m
- Continuous program power capacity: 175 watts
- Wall mounting brackets included
- Ball-mount adjustment
- Dimensions: 11" w x 15" h x 8.6" d (28 x 38 x 22 cm)
- Weight: 12 lbs (5.4 kg)

Harman Ceiling Speakers

- Frequency response: (-10db) half-space wall:
70 - 20kHz
- Sensitivity: 89db SPL, 1W, 1m
- Continuous program power capacity: 150 watts
- Grille, backcan, and tile rails included
- 10" diameter (25 cm)
- Weight: 12 lbs (5.4 kg)

Harman Microphone

- Transducer type: pre-polarized condenser microphone
- Frequency response: 20 to 20,000 Hz
- Signal-to-noise ratio: A-weighted: 77db
- Maximum sound pressure level for 1.0% THD: 132db SPL

Wenger VAE Processor

- Built-in pre-amplification and equalization
- Microphone inputs: 2 Female XLR
- Input Impedance: 3000 Ohms Balanced
- Phantom Power: +24 volt
- Frequency Response: 20 to 20kHz within 1 db
- THD+N: 0.007%
- Sample Rate: 44.1 kHz
- Dynamic Range: A/D > 100dB, 24 Bit resolution
D/A > 100dB, 24 Bit resolution
- Record Output: 1/8" TRS jack
- Power Outputs: Four 1/4" TRS and two 4-pin EURO
(5.08 mm pitch)
- Output Impedance: 4/8/16 ohms
- Remote control connector: 10-pin Molex type 42404
- USB type B socket: For downloading recorded files
- Compact Flash socket: For storing recorded sessions
- Internal 15 Band 2/3 octave Equalizer
- Internal pink noise generator and real time analyzer
- Power Requirements: 100-120 volts or 220-240 volts,
50/60 Hz, 160 Watts typical
- Operating Temperature: 0 to 40 degrees C
- Humidity: 95% max non-condensing
- Dimensions: 17.4" w x 3.5" h x 11.5" d (44 x 9 x 29 cm)
Rack mount face is 19.0" wide (48 cm)
- Weight: 17.5 lbs (7.9 kg)

Wenger VAE Control Panel

- Wired, 18 button
- 50' maximum cord
for connection to
VAE Processor
- Digital, backlit display
- Option tripod stand available
- Dimensions:
5.5" w x 8.6" h x 7.25" d
(14 x 22 x 18 cm)
- Weight: 2.0 lbs (0.9 kg)



Acoustical Doors



Acoustical Doors



Pre-Engineered Acoustical Doors

You've probably heard stories of ill-fitting doors and big installation issues, and many of these stories end with anything but great sound isolation.

A small gap or imperfection in an acoustical door becomes a large problem. The Wenger Acoustical Door is pre-engineered for consistent, high-integrity performance. And the split-frame design, composed of 14-gauge rigid frame steel construction, ensures proper installation and dependable performance.

We think you'll also appreciate the fact that Wenger door installations are very clean. Wenger pre-engineering makes all the difference when you're on site and everyone expects a perfect ending without a lot of mess.



Solid (STC 50)

Accent Window (STC 50)

Full Window (STC 51)

Half Window (STC 50)

6' (183cm) Double Door (STC 49)

Cutting-edge acoustical doors designed for high-performance sound isolation.



Product Details

- Many models available with a 1-hour UL fire rating.
- Continuous cam-lift hinge improves sound isolation and eliminates pinch points.
- Easy-to-install foam sound-absorption strips.
- Durable, maintenance-free for up to 100,000 cycles.
- Superior Teflon-coated sweep-seal meets stainless steel sill plate.
- Frame secures firmly to wall with special shim tool.
- Standard mortise pocket for easy leverset installation.
- Door widths: 3' (91 cm), 3-1/2' (107 cm), 4' (122 cm) and 6' (1.8 m) double door.
- Installs in wall thicknesses 4-1/2" (11 cm) to 12-1/2" (32 cm).
- Available in primer gray for on-site finishing by contractor.
- Five-year warranty.



Advanced Split-Frame Design accommodates virtually any wall thickness – so you don't have to worry about the kind of installation compromises that can ruin sound isolation.



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Acoustical Doors

Application Information

General Information

- Sound isolation doors for recording, broadcast, music practice and rehearsal rooms. Acoustic Performance: STC 48 - 54.
- Integrated sound-isolation door and frame. Door leaf constructed of 12-gauge and 14-gauge steel skins. Door frame constructed of 14-gauge steel.
- Four-sided frame provides a reliable (square, plumb and in plane) installation in many types of wall construction from 4-1/2" to 12-1/2" (137 to 381 cm) thick. Split-frames are manufactured to interlock on site for a precise and secure fit.
- High quality seals and continuous cam-lift hinges provide long life with minimum adjustments (typically once every five years or 100,000 cycles).
- Stainless steel sill plate included. Integrated frame support for sill plate.
- Vision lite windows constructed of 1/4" and 3/8 " (6.35 and 9.5 mm) laminated safety glass on opposite sides to prevent resonance.
- Mortise pocket (ANSI 115.1) is standard for lever set integration. Mortise and strike pocket covers included for non-latching applications.

- Standard powder painted gray primer for better on site finish and painting with less touch up required.
- Backed by a comprehensive five-year warranty.

Installation Requirements

- Installation is not provided by Wenger, but should be done in accordance with approved shop drawings and manufacturer's printed installation instructions.
- All frame installations must be plumb and square to insure proper acoustical performance.
- Acoustical caulk is necessary for maximum sound-insulation efficiency of the door assembly except for sealing around the lockset, handle and other door-mounted hardware.
- Door frame is designed to be installed at finished floor level.
- Rough opening to be provided to Wenger specifications.
- Contact your Wenger representative for door hardware option details.

Performance Measurements

Sound Transmission Class (measured in accordance with ASTM E90 - 97 and ASTM E413 - 87):

Transmission Loss (dB) by octave band (measured in accordance with ASTM E90 - 97 and ASTM E413 - 87):

Fire Rated	Nominal Width (Feet)	Door Type	STC	Transmission Loss (DB)							
				125	250	500	1000	2000	4000		
Acoustical Performance	Not Rated	3	3070 Solid Door	50	34	43	50	53	54	54	
		3	3070 w/90 sq. in. window	50	34	43	50	54	54	54	
		3	3070 w/1296 sq. in. window	51	35	44	51	54	55	55	
		3	3070 w/600 sq. in. window	Not Tested							
		3.5	3570 Solid Door	52	36	45	52	55	55	55	
		3.5	3570 w/90 sq. in. window	52	36	45	53	55	56	56	
		3.5	3570 w 1296 sq. in. window	52	36	45	52	55	56	56	
		3.5	3570 w/600 sq. in. window	Not Tested							
	1-Hour Rated	Not Rated	4	4070 Solid Door	53	37	46	53	56	57	57
			4	4070 w/90 sq. in. window	54	38	47	54	57	58	58
			4	4070 w/1296 sq. in. window	53	37	46	53	56	57	57
			4	4070 w/600.sq. in. window	Not Tested						
			6	6070 Solid Doors	Not Tested						
			6	6070 w/90 sq. in. window	Not Tested						
			6	6070 w/1296 sq. in. window	51	28	43	51	53	53	56
			6	6070 w/600.sq. in. window	Not Tested						

Options

- Four door size options:
 - 3070 - 3' (91.5 cm) - standard door width for most applications.
 - 3570 - 3-1/2' (106.7 cm) - large door width to accommodate larger equipment and instruments.
 - 4070 - 4' (122 cm) - largest door size to accommodate large equipment and instruments such as timpani drums.
 - 6070 - 6' (183 cm) - 2'-3' (61-91.5 cm) doors with removable mullion to accommodate large equipment and instruments such as grand pianos.
- See chart on previous page for fire rating availability.
- Three door style options (in each of the four door sizes):
 - No window - applications not requiring any sight lines
 - Narrow window 90 in² (581 cm²)—
3" x 30" (8 x 76 cm) when minimal visual monitoring is required.
 - Small vision lite 600 in² (3871 cm²)—
20" x 30" (51 x 76 cm) for improved sight lines (non fire rated only).
 - Large vision lite 1296 in² (8361 cm²)—
20" x 64" (51 x 163 cm) for maximum sight lines (non fire rated only).
- Four door swing options:
 - Right hand (RH)
 - Right hand reverse (RHR)
 - Left hand (LH)
 - Left hand reverse (LHR).

Door Frame

- Split frame design in four sizes to allow wall thickness of 4-1/2" to 12-1/2" (11.4 cm to 32 cm).
- Frame constructed of 14-gauge steel.
- Integrated dual magnetic or compression gaskets (compression gaskets used in fire rated doors).
- Acoustical absorptive material is provided between the frame and the magnetic gasket mountings on non-fire rated doors.
- Integral 3" (7.6 cm) doorstop on the hinge side and 2-1/2" (6.3 cm) doorstops on latch and top of frame.
- Integrated support for sill plate included in the frame.
- Ramped 1/2" (12.7 mm) metal threshold 16-gauge 304 stainless steel.
- Shims for door leaf adjustment provided with door.
- Door frame includes integrated strike pocket.

Door Leaf

- 2-1/2" (6.3 cm) thick made of 14-gauge on one face and 12-gauge steel on the opposite face.
- Internal section of door filled with sound absorbing material.
- Steel faces crimped together around a neoprene gasket to minimize acoustical coupling between the surfaces and acoustically seal the faces together.
- Internal door face stiffening provided for each face independently.
- Adjustable sweep seal made of fiberglass reinforced Teflon over a contoured steel channel.
- Continuous cam lift hinge integrated into the door leaf assembly (patented).
- Factory mortised, reinforced and fitted for heavy duty locksets (lever set hardware requires offset for handle hardware of 7/8" (22 mm) on the push side and 1-5/8" (4 cm) on the pull side).
- Internal door reinforcement provided for door closers (supplied by others).
- Underwriter's Laboratory (UL) label if required supplied with 1 hour UL fire rated doors.

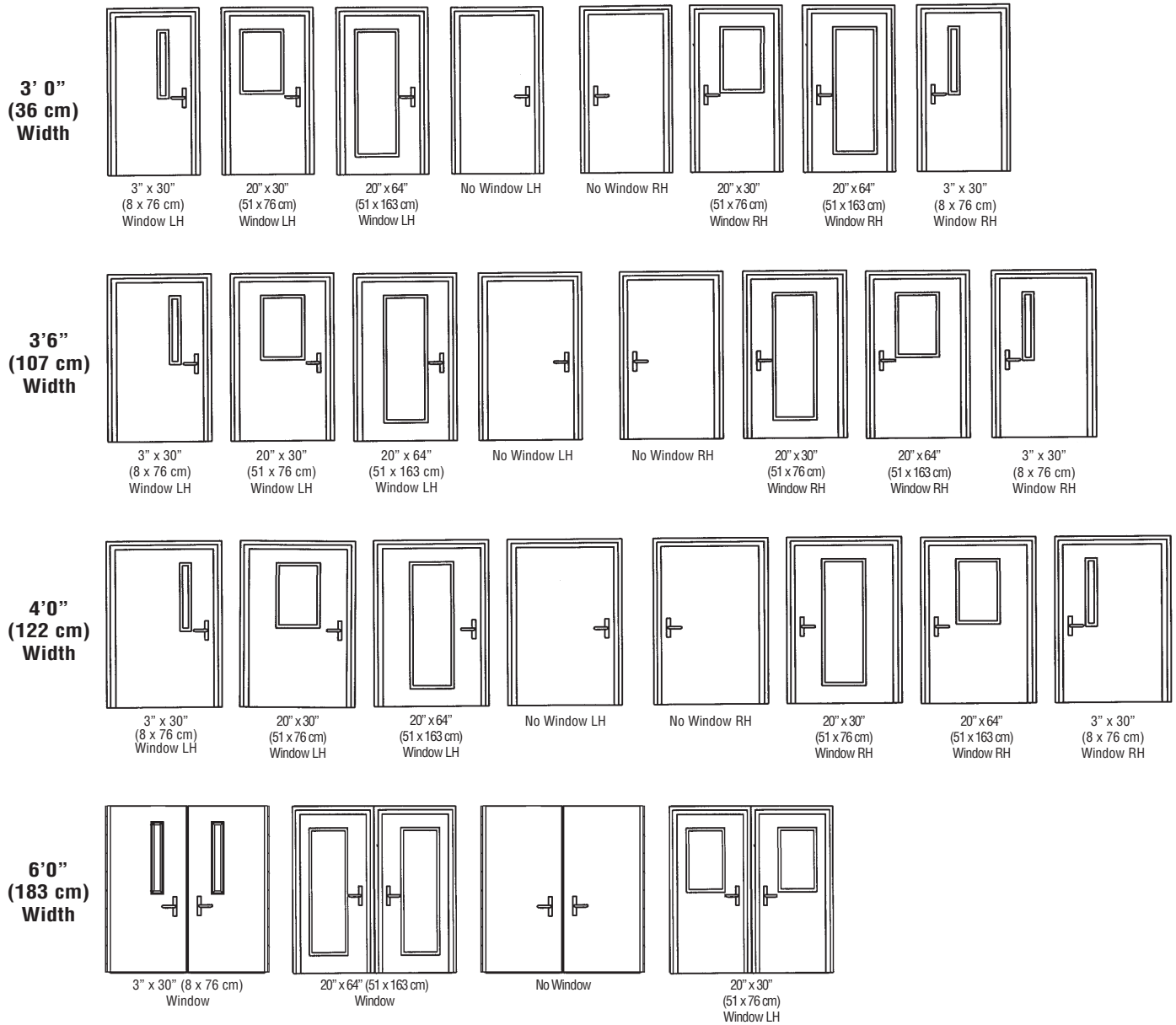
Vision Lites

- Factory assembled and installed lites in doors using 3/8" (9.5 mm) safety glass on one surface and 1/4" (6.3 mm) safety glass on the opposite surface separated by a 2-3/4" (7 cm) air space.
- Absorptive material provided behind perforated metal separators between the glass panes.
- Fabricated dual-glazed lites are individually removable.
- Two sizes available; 100 in² (645 cm²) and 1296 in² (8361 cm²).

Acoustical Doors

Typical Drawings

Acoustical Door Sizes and Styles

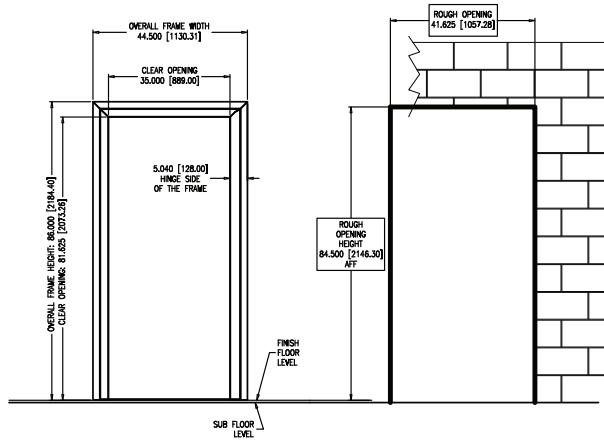


NOTE: 20" x 64" (51 x 163 cm) windows are only available in non-fire rated versions only.

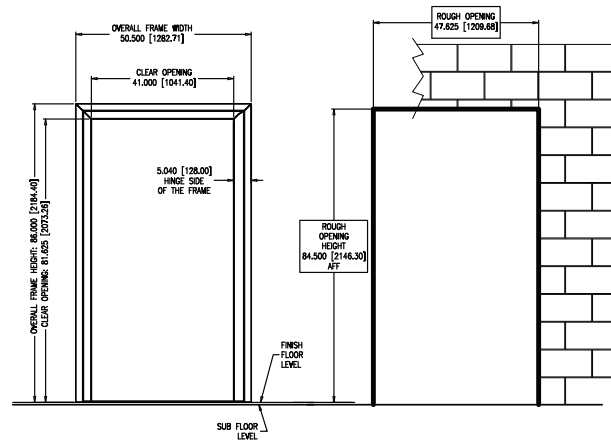
Acoustical Doors

Typical Drawings

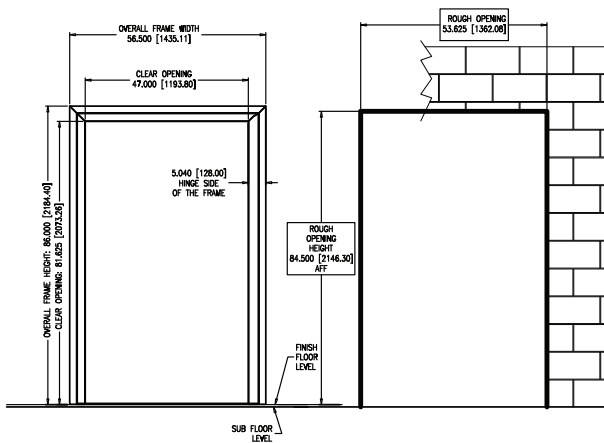
Rough Door Openings



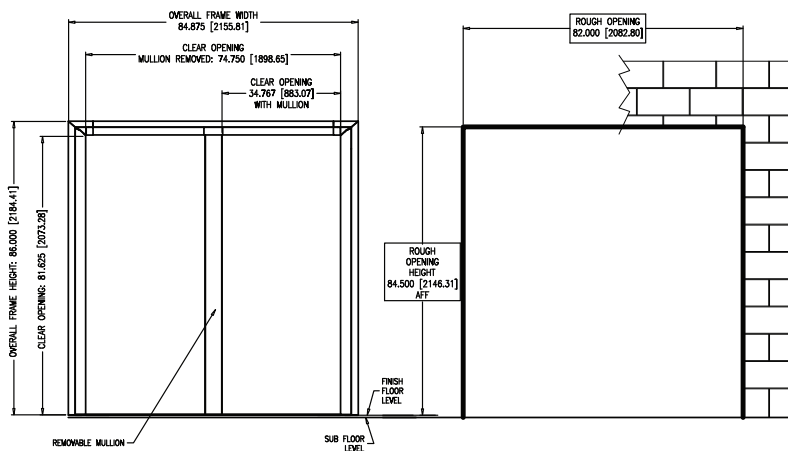
3' Door Rough Opening



3' 6" Door Rough Opening



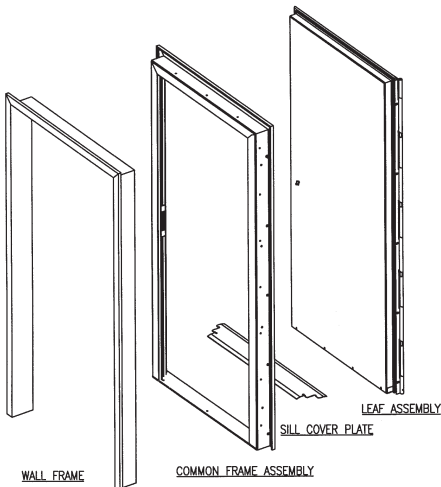
4' Door Rough Opening



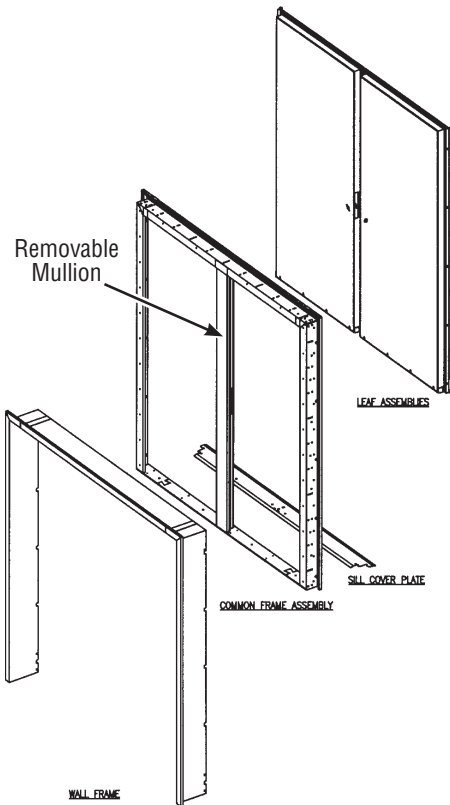
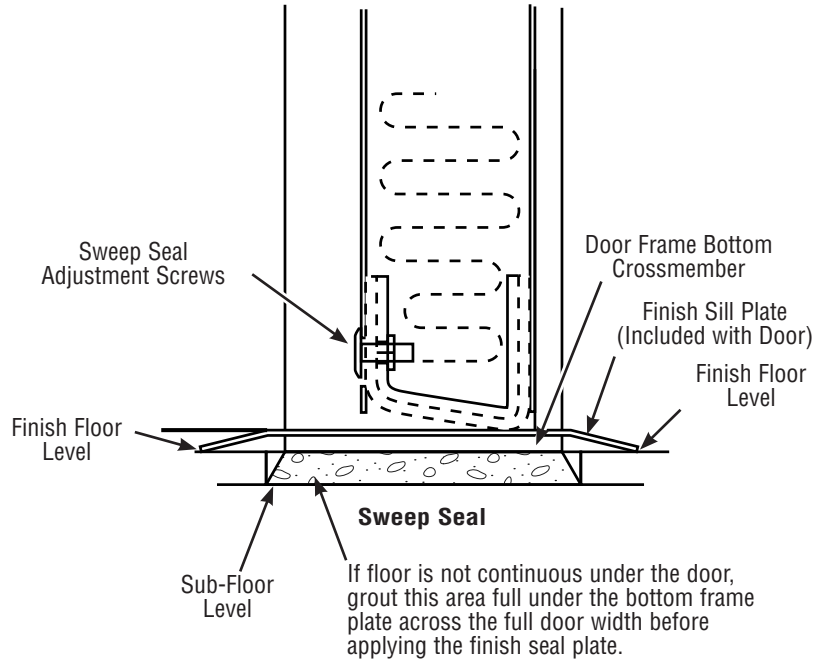
6' Door Rough Opening

Acoustical Doors

Typical Drawings



Frame and Leaf Assembly



Door Handling Diagram

NOTE: The above illustrations are typical and not project specific.

NOTE: Detailed approval drawings of each door size is available, contact Wenger Sales for more information.

Rehearsal Room Acoustics



Rehearsal Room Acoustics



Great performances begin in the rehearsal room. And Wenger acoustical panel systems get musicians off to a superior start.

Each Panel Tuned To A Particular Acoustical Task
Wenger has engineered five unique technical designs, in dozens of sizes, shapes, and diffusion angles, to yield the broadest selection of acoustical panels in the industry.

Acoustical Treatments for the Rehearsal Room

There's a lot you can do with a rehearsal room before you ever set foot in it. How you shape it, what you put on the floors and walls, where you gain cubic volume – these are the areas where Wenger focuses when helping clients create the perfect acoustical space for rehearsal. And if your room is already built and requires acoustical enhancement, then we are equally adept at making the most of your available space.

Rehearsals are not only where performances are formed, but performers too, and one of our great passions as a company is to make the rehearsal space the ideal acoustical environment. We design and manufacture our own highly advanced acoustical panels and we know how to use them to optimize the sound in your space. We can do a lot to make your rehearsal room something great – call us for a solution that you'll be hearing great things about for years and years.



The Art Of Shaping Sound

Wenger acoustical panels help you create the proper sound absorption and diffusion for your room to reduce loudness and produce the sound quality and ensemble you require. Five-year warranty on all acoustical panels.



Tunable Acoustical Panels

A panel that can change its acoustic properties with the turn of a lever. Provides broad range frequency absorption from 125hz to 4000hz. Perfect for rehearsal room use where band and choral share a common space through the course of the day. Includes absorber only and diffuser only panels to create a consistent look



Absorber Panels

Suited for the widest range of environments, these Wenger absorber panels are designed to neutralize the reverberation and loudness of a room. Fabricated with sound-absorptive, fiberglass insulation, these flat panels are engineered to absorb sound across a broad frequency range for effective, balanced abatement.



Type I Convex Diffuser Panels

Fabricated with a special composition of recyclable thermomolded plastic that scatters and blends sound, these panels diffuse middle-to high-range frequencies which define timbre and articulation. Polycylindrical Type I convex diffuser panels typically make the best remedy for flutter echoes, hot spots, and dead spots. Designed with fabric cover of your choice for wall mounts and without covering for ceiling mounts.



Type II Convex Diffuser Panels

Significantly larger than Type I panels, Wenger Type II diffuser panels have the same polycylindrical shape. In addition to sound-diffusion qualities, Type II panels selectively absorb low-frequency sound.



Quadratic Diffuser Panels

These special-application panels are engineered in accordance with quadratic number theory to provide the most effective diffusion in the 750 Hz to 3300 Hz range. Fabricated from recyclable thermomolded plastic, these 4' x 4' (122 cm x 122 cm) diffusers are designed as easy-to-apply ceiling in-lays.



Pyramidal Diffuser Panels

These impact-resistant ceiling diffuser panels of recyclable thermomolded plastic feature an offset pyramid shape to treat specific acoustical applications. Ceiling- and Wall-mounts in 4' x 4' (122 cm x 122 cm) size.



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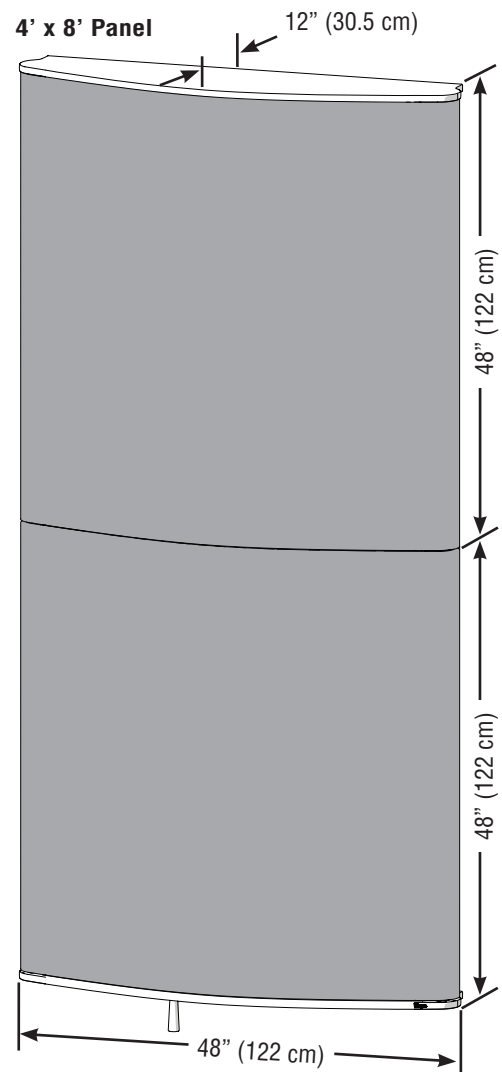
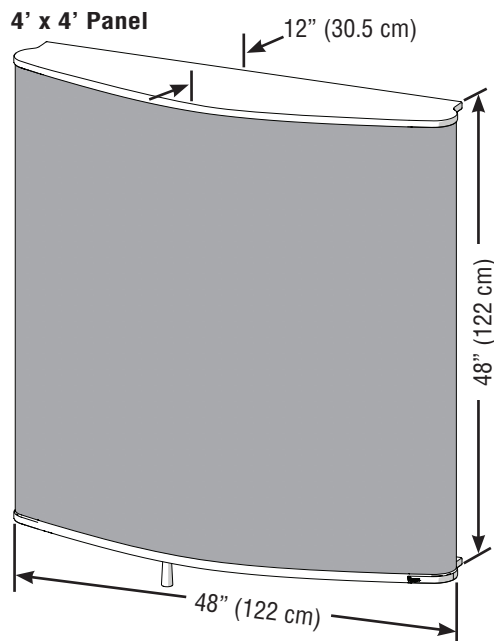
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Rehearsal Room Acoustics

Application Information

Tunable Acoustical Panels

- Provides ideal acoustic treatment for multi-function music rehearsal rooms, recital halls and cafeteriums.
- Easily accessible and changeable for absorption and diffusion.
- Facilitates instrumental and choral music in the same rehearsal or performance space.
- Provides up to 0.8 seconds of change in reverberation time.
- Ideal for music rehearsal rooms, recital halls and cafeteriums.
- Available in two sizes: 4' x 4' (122 x 122 cm) or 4' x 8' (122 x 244 cm) with center depth of 12" (30.5 cm).
- Panels are available in these configurations:
 - Absorber/Diffuser (changeable)
 - Absorber only (not changeable)
 - Diffuser only (not changeable)
- Panel face is constructed of an aluminum sheet which is curved and covered with fabric. Tunable and Absorber Panels are micro perforated, Diffuser Panels are solid.
- Standard acoustical fabric by Guilford of Maine (Anchorage Series). Available in a variety of colors and Class A fire rated per ASTM E84. Custom fabrics may also be used, dependent on fabric specification.
- Panel sides are constructed of heavy duty curved aluminum extrusions for durability.
- Top and bottom panels are constructed of 3/4" (2 cm) thick laminated particleboard with 3 mm edge banding.
- Available in select woodgrain finishes.
- Internal absorber/diffuser mechanism constructed of hinged aluminum sheets with steel actuator. Changes from absorber to diffuser with quick turn of a handle.
- Panel securely attaches to the wall with two brackets.
- Main wall bracket is constructed of 10 gauge steel (3.4 mm) with holes aligned every 2" (51 mm) to accommodate studed walls.
- Provides broad range frequency absorption from 125hz to 4000hz.
- Shipped partially assembled.
- Five-year warranty.
- Patent pending.



See the following page for acoustical test results.

Rehearsal Room Acoustics

Application Information

Acoustical Performance

Third party test results for sound absorption coefficients conformed explicitly with the requirements of ASTM C423-09a and ASTM E795-08.

Acoustical test data available upon request.

Tunable Panel

- Internal absorber/diffuser mechanism constructed of hinged aluminum sheets with steel actuator.
- Changes from absorber to diffuser with quick turn of a handle. Handle protrudes down 4" from bottom panel surface.
- Provides up to 0.8 seconds of change in reverberation time.
- 214A010 - panel weight (installed): 4' x 4' = 92 lbs (41.7 kg), 4' x 8' = 155 lbs (70.3 kg).

Averaged Sound Absorption Coefficient Octave Band Center Frequencies (Hz)						
Mounting Type	125	250	500	1000	2000	4000
Absorber Mode						
A	0.83	0.97	0.95	0.68	0.60	0.56
Diffuser Mode						
A	0.61	0.41	0.30	0.24	0.39	0.65

Absorber Only Panel

Same construction and aesthetic as the Tunable Panel, with these exceptions:

- No internal absorber/diffuser mechanism. Panel is used only as a sound absorber.
- Provides broad frequency range sound absorption from 125 Hz to 4000 Hz.
- 214A011 - panel weight (installed): 4' x 4' = 69 lbs (31.3 kg), 4' x 8' = 110 lbs (49.9 kg).

Averaged Sound Absorption Coefficient Octave Band Center Frequencies (Hz)						
Mounting Type	125	250	500	1000	2000	4000
A	0.81	0.98	0.87	0.65	0.61	0.56

Diffuser Only Panel

Same construction and aesthetic as the Tunable Panel, with these exceptions:

- No internal absorber/diffuser mechanism. Panel is used only as a sound diffuser.
- Provides broad frequency range sound diffusion from 125 Hz to 4000 Hz.
- 214A012 - panel weight (installed): 4' x 4' = 72 lbs (32.7 kg), 4' x 8' = 116 lbs (52.6 kg).

Averaged Sound Absorption Coefficient Octave Band Center Frequencies (Hz)						
Mounting Type	125	250	500	1000	2000	4000
A	0.45	0.31	0.20	0.10	0.11	0.18

Rehearsal Room Acoustics

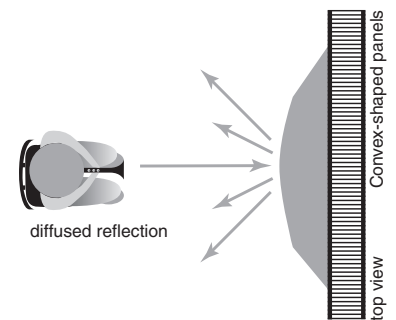
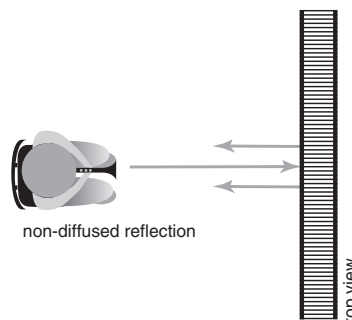
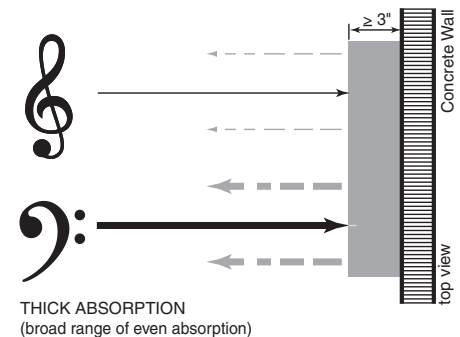
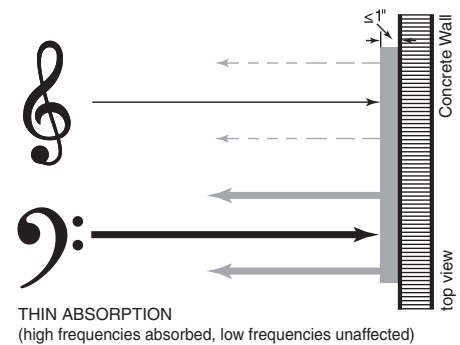
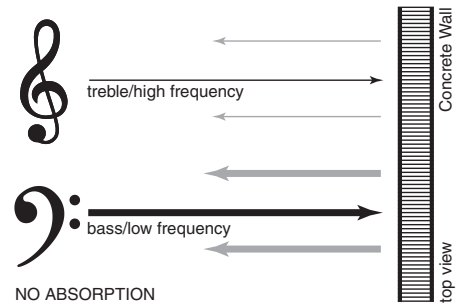
Application Information

Interactive Acoustical Panel System

The information contained in this section is a starting point to help you incorporate Wenger Interactive Acoustical Panels into your design. But, because every environment and application requirement is unique, we need to work with you to make specific recommendations for your design. This is necessary to ensure that your final plan addresses the most common problem associated with music rooms: excessive loudness.

Layout Recommendations

1. Room surfaces should not include any convex planes - flat surface preferred.
2. Ceiling heights of 18'–22' (5.5–6.7 m) for instrumental and 16'–20' (4.9–6.1 m) for choral rehearsal rooms are recommended.
3. Suspended ceiling with 1" (2.5 cm) thick glass fiber panels should be included for Instrumental Rooms (recommended NRC is 0.95).
4. Cubic room volumes of 550–700 cu. ft. per instrumentalist and 350–500 cu. ft. per vocalist is recommended.
5. For Choral Rehearsal Rooms, 0.95 NRC ceiling tile is recommended around the perimeter of the room only.
6. Instrument storage best located outside of rehearsal room.
7. Carpet is generally not recommended in the music rehearsal area because of its selective high frequency absorption.
8. Wenger will guarantee your room performance if the following four elements can be met:
 - Use of Wenger recommended ceiling material.
 - Adequate cubic room and volume as stated in #4.
 - Adequate space to mount panels.
 - Wenger can only guarantee room performance in spaces where our recommendations are followed.



Types of Panels

Wall Absorbers

Fabric wrapped with reinforced edges. Intended to provide good absorption across broad range of frequencies. Mostly located on rear wall, rear one-third of side walls and corners.

Ceiling Absorbers

Same construction as wall absorbers. Can be suspended from ceiling, mounted in ceiling grid or attached directly to the ceiling surface. Used in rooms with a reflective ceiling.

Wall Diffusers

Type I: Fabric wrapped molded from 4 up to 18 ft² (0.37 up to 1.67 m²) surface area.

Convex shape with faceted edges or offset pyramidal panels designed to blend sound of higher and mid - frequencies so as to eliminate “hot” or “dead” spots in a room. Primarily on the front wall and the front two-thirds of the side walls.

Type II: Fabric wrapped panels with absorptive fiberglass backing have 18 to 32 ft² (1.67 to 2.97 m²) surface area.

Designed to diffuse lower frequencies and absorb lower frequencies.

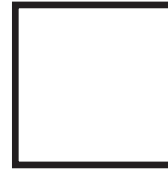
Typically mounted on the back wall and the back 1/3 of side walls behind percussion and lower brass instruments.

Ceiling Diffusers

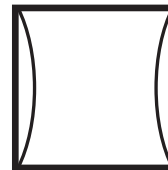
Pyramidal: Molded, white, ceiling diffuser typically installed in a suspended ceiling. Surface is paintable by others.

Convex: Molded, white ceiling mounted diffusers located over director and spreading out over middle of group. Surface is paintable by others.

Quadratic: Originally used in recording studios and major concert halls around the world, quadratic technology provides uniform reflection of sound over a wide frequency range. Typically installed in a suspended ceiling.



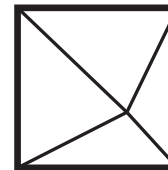
Wall Absorber



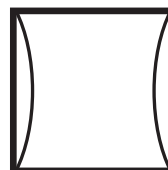
Type I Wall Diffuser



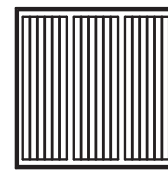
Type II Wall Diffuser



Pyramidal Ceiling Diffuser



Convex Ceiling Diffuser



Quadratic Ceiling Diffuser

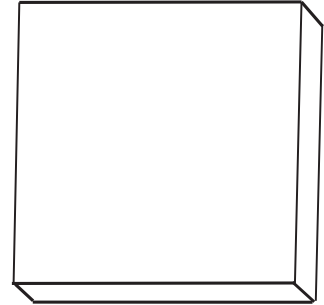
Rehearsal Room Acoustics

Application Information

Standard Absorber Panels

Panel fabric covering utilizes the Guilford of Maine company, model FR701, style 2100, and is available in a variety of colors. We can accommodate non-standard styles and colors pending manufacturing approval and testing. Contact Wenger for additional information.

- Manufacturer's standard construction of 2" (5 cm), 3" (8 cm), and 4" (10 cm) thick 6 pcf, glass fiber board, hardened resin edges, covered with Class A fabric according to NFPA 101 Life Safety Code Requirements.
- Corner brackets to receive mounting hardware.
- Five-year warranty.



Absorber Panel

Wall Absorber Panels

Nominal Dimensions	Actual Dimensions	2" (5 cm) Thick Weight	3" (8 cm) Thick Weight	4" (10 cm) Thick Weight
2' x 2' (61 x 61 cm)	23-3/16" x 23-3/16" (59 x 59 cm)	5 lbs (2.27 kg)	7 lbs (3.18 kg)	9 lbs (4.08 kg)
2' x 3' (61 x 92 cm)	23-3/16" x 35-3/16" (59 x 89 cm)	7 lbs (3.18 kg)	10.5 lbs (4.76 kg)	13.5 lbs (6.12 kg)
2' x 4' (61 x 122 cm)	23-3/16" x 46-7/8" (59 x 119 cm)	9.5 lbs (4.31 kg)	14 lbs (6.35 kg)	18 lbs (8.16 kg)
2' x 5' (61 x 153 cm)	23-3/16" x 59-7/8" (59 x 152 cm)	12 lbs (5.44 kg)	17.5 lbs (7.94 kg)	22.5 lbs (10.21 kg)
2' x 6' (61 x 183 cm)	23-3/16" x 70-7/8" (59 x 180 cm)	14.5 lbs (6.58 kg)	21 lbs (9.53 kg)	27 lbs (12.25 kg)
2' x 8' (61 x 244 cm)	23-3/16" x 94-7/8" (59 x 241 cm)	19 lbs (8.62 kg)	28 lbs (12.70 kg)	36 lbs (16.33 kg)
3' x 3' (92 x 92 cm)	35-3/16" x 35-3/16" (89 x 89 cm)	11 lbs (4.99 kg)	16 lbs (7.26 kg)	20.5 lbs (9.30 kg)
3' x 4' (92 x 122 cm)	35-3/16" x 46-7/8" (89 x 119 cm)	14.5 lbs (6.58 kg)	21 lbs (9.53 kg)	27 lbs (12.25 kg)
3' x 5' (92 x 153 cm)	35-3/16" x 58-7/8" (89 x 150 cm)	18 lbs (8.16 kg)	26 lbs (11.79 kg)	34 lbs (15.42 kg)
3' x 6' (92 x 183 cm)	35-3/16" x 70-7/8" (89 x 180 cm)	22 lbs (9.98 kg)	31.5 lbs (14.29 kg)	41 lbs (18.60 kg)
3' x 8' (92 x 244 cm)	35-3/16" x 94-7/8" (89 x 241 cm)	29 lbs (13.15 kg)	42 lbs (19.05 kg)	54.5 lbs (24.72 kg)
4' x 4' (122 x 122 cm)	46-7/8" x 46-7/8" (119 x 119 cm)	19 lbs (8.62 kg)	28 lbs (12.70 kg)	36 lbs (16.33 kg)
4' x 5' (122 x 153 cm)	46-7/8" x 58-7/8" (119 x 150 cm)	24 lbs (10.89 kg)	35 lbs (15.88 kg)	45 lbs (20.41 kg)
4' x 6' (122 x 183 cm)	46-7/8" x 70-7/8" (119 x 180 cm)	29 lbs (13.15 kg)	42 lbs (19.05 kg)	54.5 lbs (24.72 kg)
4' x 8' (122 x 244 cm)	46-7/8" x 94-7/8" (119 x 241 cm)	38.5 lbs (17.46 kg)	56 lbs (25.40 kg)	72.5 lbs (32.89 kg)

Note: Custom sizes are available.

Ceiling Absorber Panels

Nominal Dimensions	Actual Dimensions	2" (5 cm) Thick Weight	3" (8 cm) Thick Weight	4" (10 cm) Thick Weight
2' x 2' (61 x 61 cm)	23-3/16" x 23-3/16" (59 x 59 cm)	5 lbs (2.27 kg)	7 lbs (3.18 kg)	9 lbs (4.08 kg)
2' x 3' (61 x 92 cm)	23-3/16" x 35-3/16" (59 x 89 cm)	7 lbs (3.18 kg)	10.5 lbs (4.76 kg)	13.5 lbs (6.12 kg)
2' x 4' (61 x 122 cm)	23-3/16" x 46-7/8" (59 x 119 cm)	9.5 lbs (4.31 kg)	14 lbs (6.35 kg)	18 lbs (8.16 kg)
3' x 3' (92 x 92 cm)	35-3/16" x 35-3/16" (89 x 89 cm)	11 lbs (4.99 kg)	16 lbs (7.26 kg)	20.5 lbs (9.30 kg)
3' x 4' (92 x 122 cm)	35-3/16" x 46-7/8" (89 x 119 cm)	14.5 lbs (6.58 kg)	21 lbs (9.53 kg)	27 lbs (12.25 kg)
4' x 4' (122 x 122 cm)	46-7/8" x 46-7/8" (119 x 119 cm)	19 lbs (8.62 kg)	28 lbs (12.70 kg)	36 lbs (16.33 kg)

Note: Ceiling absorber panels mount direct to permanent ceiling or suspend from wire only. No lay-in or clip-in option available for suspended ceiling grids.

Application Information

Standard Diffuser Panels

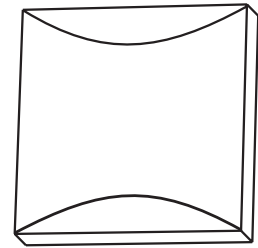
Diffuser panels include ceiling and wall panels. Only wall panels are fabric covered. Type I and Type II wall panels are convex shaped. Ceiling panels are either convex or pyramidal shaped. Panel fabric covering utilizes the Guiford of Maine Company, model FR701, Style 2100 series of fabric, and is available in a variety of colors. We can accommodate non-standard styles and colors pending manufacturing approval and testing. Contact Wenger for additional information.

- Corners are reinforced with diagonal supports, which also provide a secure anchor for the mounting hardware.
- Constructed of Class A material according to NFPA 101 Life Safety Code Requirements.

Wall Diffusers Panels, Type I (Convex)

- Constructed thermo molded plastic, 0.125" (3 mm) material thickness, recyclable.

Nominal Dimensions	Actual Dimensions	Weight
2' x 2' x 4-3/4" (61 x 61 x 12 cm)	22-3/4" x 22-3/4" x 4-3/4" (58 x 58 x 12 cm)	6 lbs (2.72 kg)
3' x 3' x 4-7/8" (92 x 92 x 12 cm)	35-1/4" x 35-1/4" x 4-7/8" (90 x 90 x 12 cm)	13.5 lbs (6.12 kg)
3' x 4' x 5-7/8" (92 x 122 x 15 cm)	35-1/4" x 47" x 4-7/8" (90 x 119 x 12 cm)	18 lbs (8.16 kg)
3' x 6' x 5-7/8" (92 x 183 x 15 cm)	35-1/4" x 71" x 5-7/8" (90 x 152 x 15 cm)	27 lbs (12.25 kg)
4' x 2' x 4-7/8" (122 x 61 x 12 cm)	47" x 23-1/2" x 4-7/8" (119 x 60 x 12 cm)	12 lbs (5.44 kg)
4' x 3' x 5-7/8" (122 x 92 x 15 cm)	47" x 35-1/4" x 5-7/8" (119 x 90 x 15 cm)	18 lbs (8.16 kg)
4' x 4' x 7-3/8" (122 x 122 x 19 cm)	47" x 47" x 7-3/8" (119 x 119 x 19 cm)	24 lbs (10.89 kg)
4' x 6' x 7-3/8" (122 x 183 x 19 cm)	47" x 71" x 7-3/8" (119 x 180 x 19 cm)	36 lbs (16.33 kg)
4' x 8' x 73/8" (122 x 244 x 19 cm)	47" x 95" x 7-3/8" (119 x 241 x 19 cm)	48 lbs (21.77 kg)

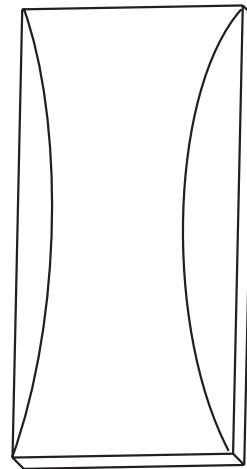


Type I Wall Diffuser

Wall Diffusers Panel, Type II (Convex)

- Constructed of thermo molded plastic, 0.125" (3 mm) material thickness with glass fiber board glued to rear surface of panel. Recyclable.

Nominal Dimensions	Actual Dimensions	Weight
3' x 6' x 5-3/8" (92 x 183 x 15 cm)	35-1/4" x 71" x 5-3/8" (90 x 152 x 15 cm)	36 lbs (16.33 kg)
4' x 6' x 7-3/8" (122 x 183 x 19 cm)	47" x 71" x 7-3/8" (119 x 180 x 19 cm)	48 lbs (21.77 kg)
4' x 8' x 7-3/8" (122 x 244 x 19 cm)	47" x 95" x 7-3/8" (119 x 241 x 19 cm)	64 lbs (29.03 kg)



Type II Wall Diffuser

Rehearsal Room Acoustics

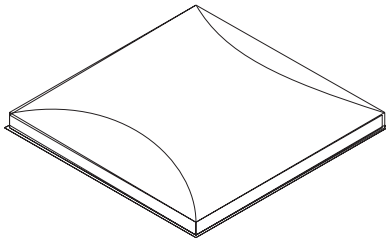
Application Information

Ceiling Diffuser Panels

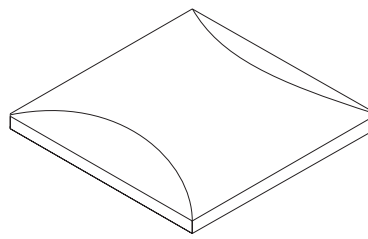
- Ceiling diffuser panels are available in two shapes, convex or pyramidal.
- Manufacturer's standard construction of thermo molded plastic, 0.125" (3 mm) material thickness with white, "lemon-peel" finish. NOT fabric covered.
- Surface is paintable using latex acrylic paint only. Recyclable.
- Constructed of Class A material according to NFPA 101 Life Safety Code Requirements.
- Lay-In ceiling panels attach securely to a suspended ceiling grid (safety cables provided).
- For a suspended ceiling grid, please specify if using standard or designer grid system.
- Clip-In ceiling panels may be direct mounted to permanent ceiling, or suspended from ceiling by wire from four corner hooks.

Convex Ceiling Diffuser Panels

Nominal Dimensions	Actual Dimensions	Weight
Lay-in Panel (for designer or standard grid)		
2' x 2' x 5-1/4" (61 x 61 x 13 cm)	22-3/4" x 22-3/4" x 5-1/4" (58 x 58 x 13 cm)	3 lbs (1.36 kg)
4' x 2' x 5-1/4" (122 x 61 x 13 cm)	46-7/8" x 23-1/8" x 5-1/4" (119 x 59 x 13 cm)	8 lbs (3.63 kg)
4' x 4' x 5-1/4" (122 x 122 x 13 cm)	46-3/4" x 46-3/4" x 5-1/4" (119 x 119 x 13 cm)	15 lbs (6.80 kg)
Clip-in Panel (for direct mount or wire suspended)		
2' x 2' x 4-3/4" (61 x 61 x 12 cm)	22-3/4" x 22-3/4" x 4-3/4" (58 x 58 x 12 cm)	3 lbs (1.36 kg)
4' x 2' x 4-3/4" (122 x 61 x 12 cm)	46-7/8" x 23-1/8" x 4-3/4" (119 x 59 x 12 cm)	8 lbs (3.63 kg)
4' x 4' x 4-3/8" (122 x 122 x 11 cm)	46-3/4" x 46-3/4" x 4-3/8" (119 x 119 x 11 cm)	15 lbs (6.80 kg)



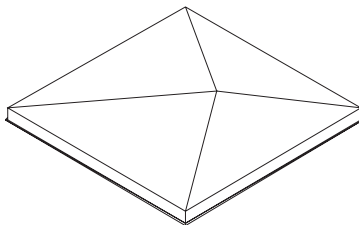
Lay-in Convex Ceiling Diffuser



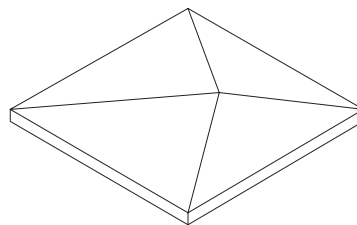
Clip-in Convex Ceiling Diffuser

Pyramidal Ceiling Diffuser Panels

Nominal Dimensions	Actual Dimensions	Weight
Lay-in Panel (for designer or standard grid)		
4' x 4' x 12" (122 x 122 x 30 cm)	46-3/4" x 46-3/4" x 12" (119 x 119 x 30 cm)	15 lbs (6.80 kg)
Clip-in Panel (for direct mount or wire suspended)		
4' x 4' x 12" (122 x 122 x 30 cm)	46-3/4" x 46-3/4" x 12" (119 x 119 x 30 cm)	15 lbs (6.80 kg)

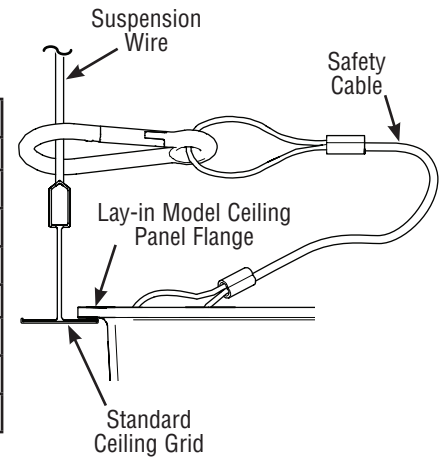
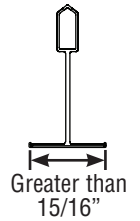


Lay-in Pyramidal Ceiling Diffuser

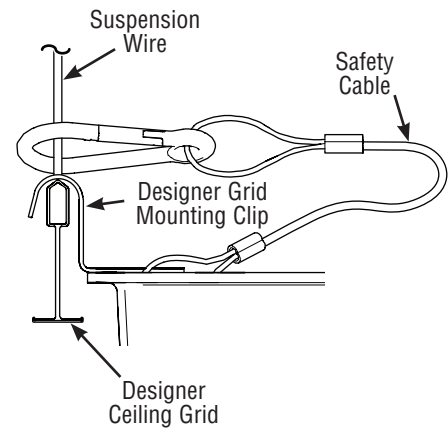
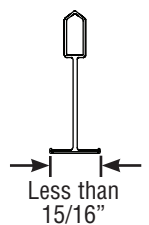


Clip-in Pyramidal Ceiling Diffuser

Standard Ceiling Grid Rail



Designer Ceiling Grid Rail



Rehearsal Room Acoustics

Application Information

Installation

Standard Acoustical Wall Panels are designed for easy installation. Panels are shipped fully assembled with mounting brackets included for a secure installation. Brackets are fastened (fasteners not included) to virtually any wall surface (Fig. 1) and the panels mount easily onto the wall brackets (Fig. 2).

Wall Absorber/Diffuser Installation

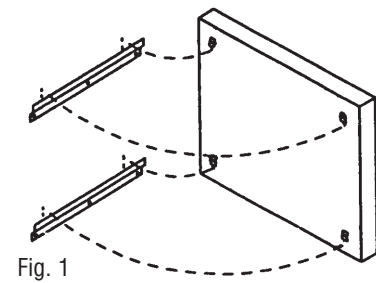


Fig. 1

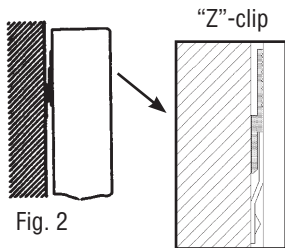
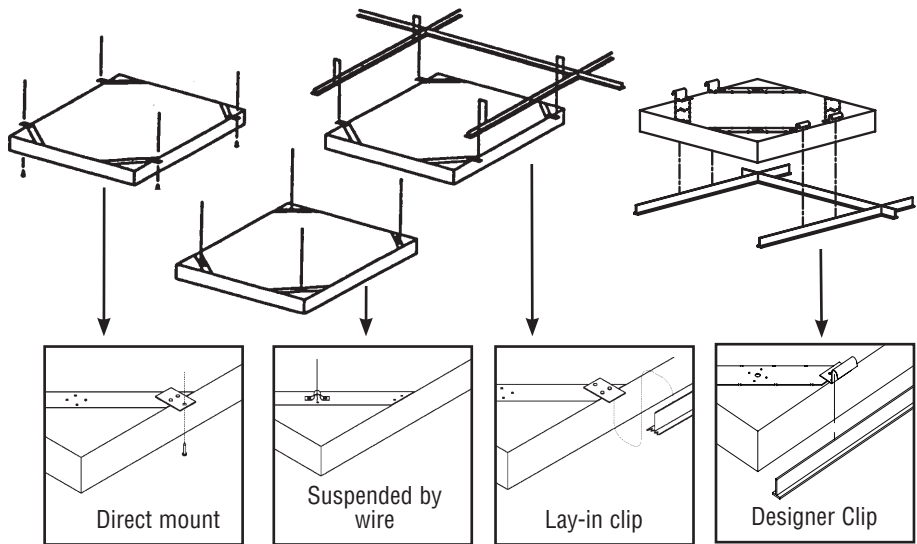


Fig. 2

Ceiling Absorber/Diffuser Installation



Acoustical Performance

Sound Absorption Coefficient One-Third Octave Band Center Frequency (Hz)							
Mounting Type		125	250	500	1000	2000	4000
Wall and Ceiling Absorbers 4' x 4' (122 x 122 cm)							
A ¹	2" (5 cm)	0.50	0.96	1.27	1.27	1.23	1.18
	3" (8 cm)	0.65	1.10	1.31	1.23	1.20	1.09
	4" (10 cm)	0.84	1.17	1.34	1.32	1.25	1.20
Ceiling Diffusers 4' x 4' (122 x 122 cm) Convex							
A		0.20	0.11	0.07	0.04	0.09	0.21
E-400		0.21	0.16	0.16	0.15	0.14	0.26
Ceiling Diffusers 4' x 4' (122 x 122 cm) Pyramidal							
A		0.27	0.18	0.09	0.06	0.03	0.00
E-400		0.21	0.14	0.13	0.13	0.18	0.27
Type I Wall Diffusers 4' x 4' (122 x 122 cm) Convex							
A		0.18	0.18	0.13	0.10	0.12	0.16
E-9/32" (7 mm) ¹		0.25	0.14	0.11	0.10	.13	0.16
Type I Wall Diffusers 4' x 4' (122 x 122 cm) Pyramidal							
A		0.23	0.18	0.13	0.12	0.14	0.11
E-9/32" (7 mm) ¹		0.22	0.18	0.12	0.12	0.17	0.20
Type II Wall Diffusers 4' x 8' (122 x 244 cm)							
A		0.34	0.27	0.14	0.11	0.11	0.19
E-9/32" (7 mm) ¹		0.28	0.29	0.19	0.13	0.13	0.20

A¹ Mounted 9/32" (7 mm) air space to simulate actual installation practice;
A Mounting — 0.2" (0.5 cm) air space, E-400 Mounting — 16" (41 cm) air space.
Sound Transmission Class (STC), determined according to ASTM E90 and ASTM E413;
Type I convex ceiling diffuser panel, 4' x 4' (122 cm x 122 cm); STC 23,
Type 1 pyramidal diffuser panel, 4' x 4' (122 x 122 cm), STC 22.

Rehearsal Room Acoustics

Acoustical Panel Questionnaire

When it comes to acoustical treatments for music rehearsals spaces, each room's needs are unique and we cannot base an acoustic solution on assumptions. In order to put a proposal together based on the unique needs of your rooms, we ask that you complete the following questionnaire. From this information, we will design the optimal Acoustic Panel Solution and create a drawing for placement of panels, and a budget quote.

CUSTOMER NAME: _____
 FACILITY NAME: _____
 CITY, STATE, ZIP: _____
 ARCHITECT: _____
 PHONE/FAX: _____
 E-MAIL: _____
 Is an acoustician involved? ___ YES ___ NO
 Firm Name? _____

For Existing Spaces: What is the biggest problem with the rehearsal room?	
Too loud	_____
Too boomy	_____
Echoes	_____
Too dry	_____
Other	_____

A.) Send a copy of the following blueprint/Cad drawings of your room (if you do not have drawings, please create a detailed sketch showing key dimension and locations of obstacles such as doors, windows, speakers, emergency lights, white-boards ect.):

With Sketches please indicate:

_____ Floor Plans	Room Width _____
_____ Reflected Ceiling	Plan Room Depth _____
_____ Wall Elevations	Ceiling Height _____

B.) What is the **MAIN USE** of the room, and the largest **NUMBER OF STUDENTS** in a group that use the room?

_____ Marching Band	# of Students _____
_____ Jazz Band	# of Students _____
_____ Band	# of Students _____
_____ Orchestra	# of Students _____
_____ Choir	# of Students _____
_____ Multi-purpose (Example: Cafetorium)	# of Students _____

C.) CEILING FINISH

If You Have a Suspended Ceiling Please Note:

The expected acoustic results assume Acoustic Ceiling Panels (rated at .95 NRC and are typically a 1" thick, or greater, glass fiber material). **Any other suspended ceiling will nullify the expected acoustic result of a Wenger solution.**

_____ Suspended/1" Glass Fiber Panels .95 NRC – Required to achieve the expected acoustic result of a Wenger Solution.
 _____ Suspended/Mineral Board – **Nullifies the expected acoustic result of a Wenger solution.**
Will you be replacing with acoustic panels rated at .95 NRC or better ___ Yes ___ No
 _____ Acoustical Tile/Glued (Unpainted)
 _____ Acoustical Tile/Glued (Painted)

These ceiling types can be treated with Wenger Absorber Panels:

_____ Steel Truss/Deck
 _____ Wood Planking
 _____ Concrete Beam
 _____ Plaster
 _____ Gypsum Board

D.) SUSPENDED CEILING GRID (if applies)

_____ Standard Grid System
 _____ Designer Grid System

E.) FLOOR FINISH

_____ Concrete
 _____ Tile on Concrete
 _____ Carpet on Concrete
 _____ Wood Floor
 _____ Carpet on Wood Floor
 _____ Wood or poured Concrete risers
 (Please note poured concrete risers greatly limit the acoustic capacity of a room and are not recommended).

F.) WALL FINISHES

	NORTH	SOUTH	EAST	WEST
Concrete or Concrete Block	_____	_____	_____	_____
Gypsum/Drywall Board with 3-1/2" Insulation behind	_____	_____	_____	_____
Gypsum Board no Insulation	_____	_____	_____	_____
Plaster/Lathe	_____	_____	_____	_____
Brick	_____	_____	_____	_____
Poured/pre-stressed concrete	_____	_____	_____	_____
Windows	_____ No			

_____ Yes – Shown on print or sketches with dimensions indicated including sill height above floor and window height from sill to top of window opening.

G.) Are there/will there be INSTRUMENT STORAGE CABINETS in this room?

_____ No
 _____ Yes
 Are they Wenger cabinets? ___ No
 _____ Yes ___ Solid Doors
 _____ Grille Doors
 _____ Acoustic Cabinets

H.) Which compass direction does the group face?

(Must indicate "NORTH" or "FRONT" on blueprint.)
 _____ NORTH
 _____ SOUTH
 _____ EAST
 _____ WEST

I.) Videotape or photograph your rehearsal room the way it's normally set up. A simple commentary on the video will further clarify what you are showing us.

Form 487, Rev 2

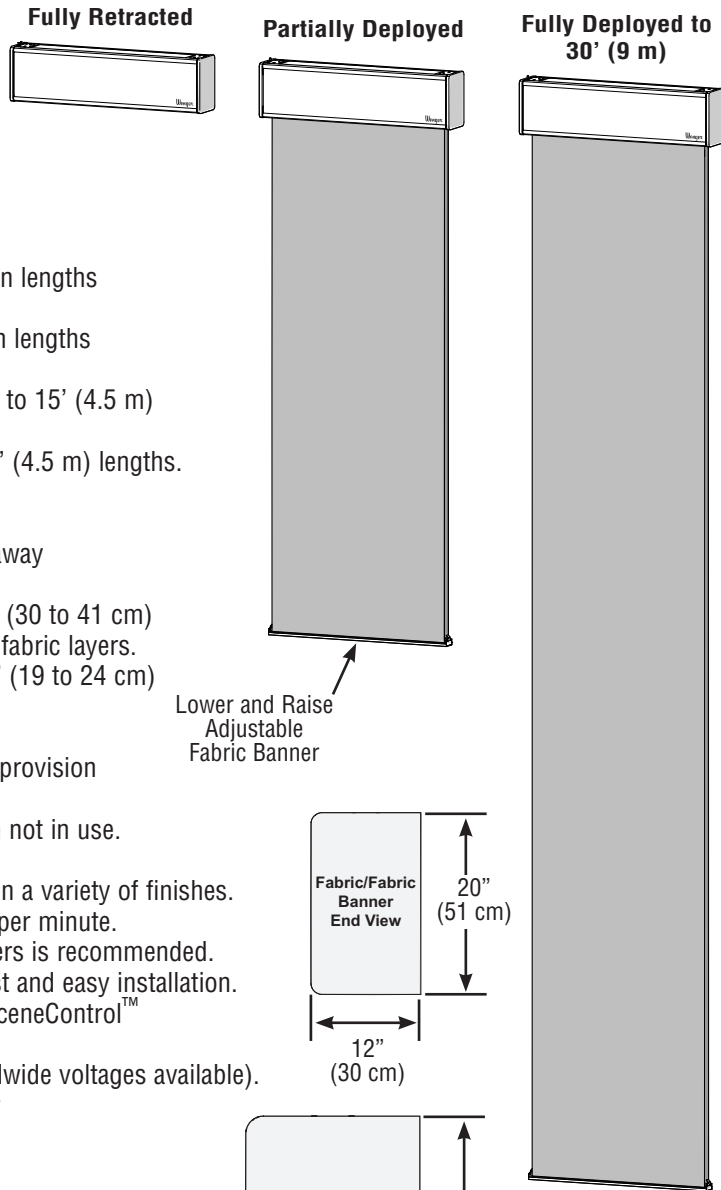
Rehearsal Room Acoustics

Application Information

Transform™ Motorized Acoustical Banner

- Standard Banner is 5' (1.5m) wide and is available in widths up to 10' (3 m).
- Tubular motor driven system for use in an operator controlled or pre-set environment.
- Designed for performance spaces, including performance halls, theaters, and auditoriums.

- Available fabric options:
 - Encore Velour, double layer 22 oz (0.6 kg).
 - Wool Serge, double layer 30 oz (0.85 kg).
 - Quilted fabric.
 - Single layer quilted with single layer wool.
 - Single layer quilted with single layer velour.
- 3' - 5' (0.9 m - 1.5 m) wide fabrics are available in lengths of up to 30' (9 m) long.
- 5' - 10' (1.5 m - 3 m) wide fabrics are available in lengths of up to 15' (4.5 m) long in velour or wool only.
- Fabric/Quilted combinations are only available up to 15' (4.5 m) lengths only.
- Screen printed fabrics are only available up to 15' (4.5 m) lengths.
- Banner width will vary with fabric width.
- All fabrics are IFR rated.
- Each banner option includes adjustable spacing away from the wall and between the layers of fabric.
 - Fabric/Quilted spacing ranges from 12" to 16" (30 to 41 cm) from wall and 4" to 8" (10 to 20 cm) between fabric layers.
 - Fabric/Fabric spacing ranges from 7.5" to 9.5" (19 to 24 cm) from wall and 4" to 5" (10 to 13 cm) between fabric layers.
- Each banner includes a standard "quick change" provision to allow fabric to be removed for maintenance.
- Banner retracts into cove to hide from view when not in use.
- Banner includes laminated wood closures.
- For exposed installations, end caps are included in a variety of finishes.
- Fast and quiet deployment of up to 45' (13.7 m) per minute.
- A minimum 2" (5 cm) of spacing between banners is recommended.
- Each banner includes wall mount brackets for fast and easy installation.
- Banner system will integrate with J.R. Clancy's SceneControl™ system or simple push button controls.
- Requires a standard 120-volt/60 Hz circuit (worldwide voltages available).
- Each banner is shipped assembled and tested for proper operation before shipment.
- Patents pending.
- Three-year warranty.



Banner Materials	Average Sound Absorption Coefficient Octave Band Center Frequencies (Hz)					
	125	250	500	1000	2000	4000
Wool + Quilt	0.31	0.78	0.98	1.08	1.15	1.21
Velour + Quilt	0.27	0.70	0.90	1.01	1.10	1.12
Wool + Wool	0.19	0.66	0.91	1.03	1.04	1.01
Velour + Velour	0.16	0.58	0.88	0.98	0.96	0.98

Instrument Storage Systems



Wenger®
Your Performance Partner

Instrument Storage Systems

Wenger has a solution for every storage need...



UltraStor™ Storage Cabinets

The industry's #1 choice for instruments and garments. Perfectly functional, incredibly durable, and aesthetically enduring, UltraStor™ is precision-engineered to ventilate and protect your huge investment.



AcoustiCabinets®

Specially designed grille doors and acoustically absorptive material minimize the loss of cubic volume and help eliminate flutter echo. The perfect fit for rehearsal rooms, AcoustiCabinets® actually enhance a room's acoustics.



GearBoss® High-Density Storage

High-density, heavy-duty GearBoss storage creates up to 50 percent more space. The innovative track-and-rolling-cart design moves effortlessly, dramatically increasing accessibility, organization, flexibility, sanitation, ventilation, and security.



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7041 Interstate Island Road | Syracuse | NY 13209-9713

Instrument Storage

Overview

Instruments of every size and shape, some delicate, some cumbersome, all needing a dedicated space. Enough garments, flags, and props to fill a showroom. And more sheet music than you can count.

Where do you put it all – in a way that keeps it accessible, but also secure and well-protected?

How do you make sure storage not only doesn't impede traffic flow, but in fact enhances it?

How important is ventilation? And what about durability? Do you need to sacrifice aesthetics for function?

What kind of options do you have? And where in the world do you start?

Determining the right storage solution is tricky, if not overwhelming, unless you know who to call.

A call to Wenger is the answer.

Whatever you need to store, we have the ideal solution for your space and budget. We also bring a unique dual expertise — music education and storage — that we will help you leverage to your ultimate advantage.

Creating a customized storage solution that optimizes your space and dollars within the context of your specific storage requirements is a process that requires a close look at your needs and a close relationship with an expert. Work with Wenger and you will benefit from an expertise earned by working with situations just like yours.

Tested every day, all around the world One thing experience has taught us: students hang on locker doors, so we load-test ours with more than 300 lb (136 kg) of pressure on the outer edge. We also know that easy theft is the most likely theft, and to prevent that our patented lock-bar is 12-gauge steel, the strike plate heavy-duty, and tamper-resistant. And we've seen how daily wear-and-tear can shorten product life and that's why Wenger products are built so well and keep looking that way.

Wenger has a solution for every storage need...

	UltraStor™ Cabinets	GearBoss® Storage	GearBoss® Shelving	OnBoard® Carts	Instrument Racks
Small Instruments	•				
Large Instruments	•		•	•	•
Percussion	•	•	•	•	
Orchestra	•				•

The following page is an instrumentation list.

Be sure to list only instruments to be stored in the cabinets.

For larger or loose equipment, use a separate storage area.

Instrument Storage

Cabinet Layout Estimate Form

1 Check Color Combination

- (Body finish of all cabinets is Oyster)
 Laminate Color / Edge banding Color / Painted Grille & Door Fasteners
- Wenger Maple / Oyster / Oyster
 Pebble / Oyster / Oyster
 Oyster / Oyster / Oyster
 Cherry / Cherry / Black
 Evening Tigris / Pepper Dust / Pepper Dust
 Fusion Maple / Almond / Almond
 Solar Oak / Black / Black

3 Check Core Material Type

- Standard
- Industrial Grade Composite Wood
 (No added urea formaldehyde)
- Non-Standard (upcharge applies)
- Fire-Rated
 Moisture-Resistant Core Material
 Vencore Plywood
 FSC Certified

4 Check Door Style

- Compartment Door
 No Door
 Full Door
 (Not available on all cabinets.
 Please contact your Wenger rep for assistance)

5 Check Door Type

- (AcustiCabinets are only available with Waterfall Grille Doors)
- Straight Grille Door
 Waterfall Grille Door
 Solid
 Full-Size Grille
 Heavy-Duty Grille Door
 (Available for Full Door options only)

6 Room Size

- Linear feet of available wall space _____
 Number of corners available for storage _____
 Number of rooms _____

For a proposal:

- Fill out this form and contact Wenger for assistance or complete the form online at www.wengercorp.com.

To receive a site drawing with your proposal:

- Include a copy of blueprints, floor plan and elevations of your location showing windows, doors, blackboards, and other permanent fixtures.

2 Check Cabinet Type

- UltraStor™ Storage Cabinets
 AcustiCabinets®

7 Qty.	Instrument	Qty.	Instrument	Mallet Percussion
<input type="checkbox"/>	Piccolo	<input type="checkbox"/>	Marching Drum 12" x 15" (30 x 38 cm)	<input type="checkbox"/> Concert Bass Drum 16" x 36" (41 x 91 cm)
<input type="checkbox"/>	Flute	<input type="checkbox"/>	Field Drum 15" x 18" (38 x 46 cm)	<input type="checkbox"/> Concert Bass Drum 18" x 40" (46 x 102 cm)
<input type="checkbox"/>	Oboe	<input type="checkbox"/>	Bass Drum 14" x 22" (36 x 56 cm)	<input type="checkbox"/> Timpani
<input type="checkbox"/>	English Horn	<input type="checkbox"/>	Bass Drum 14" x 24" (36 x 61 cm)	<input type="checkbox"/> Orchestra Bells
<input type="checkbox"/>	E-flat Clarinet	<input type="checkbox"/>	Bass Drum 14" x 28" (36 x 71 cm)	<input type="checkbox"/> Chimes
<input type="checkbox"/>	B-flat Clarinet	<input type="checkbox"/>	Bass Drum 16" x 30" (41 x 76 cm)	<input type="checkbox"/> Marimba under 58" (147 cm)
<input type="checkbox"/>	2 Pc. Alto Clarinet	<input type="checkbox"/>	Bass Drum 16" x 32" (41 x 81 cm)	<input type="checkbox"/> Vibes under 58" (147 cm)
<input type="checkbox"/>	1 Pc. Alto Clarinet	<input type="checkbox"/>	Contrabass Clarinet	<input type="checkbox"/> Xylophone under 58" (147 cm)
<input type="checkbox"/>	2 Pc. Bass Clarinet	<input type="checkbox"/>	Contrabassoon	Additional items
<input type="checkbox"/>	1 Pc. Bass Clarinet	<input type="checkbox"/>	Soprano Saxophone	<input type="checkbox"/> Uniforms
<input type="checkbox"/>	Contralto Clarinet	<input type="checkbox"/>	Alto Saxophone	<input type="checkbox"/> Robes
<input type="checkbox"/>	Contrabass Clarinet	<input type="checkbox"/>	Tenor Saxophone	<input type="checkbox"/> Hats
<input type="checkbox"/>	Bassoon	<input type="checkbox"/>	Baritone Saxophone	<input type="checkbox"/> Flags
<input type="checkbox"/>	Contrabassoon	<input type="checkbox"/>	Bass Saxophone	<input type="checkbox"/> Rifles
<input type="checkbox"/>	Soprano Saxophone	<input type="checkbox"/>	Cornet	<input type="checkbox"/> Inches of Music Titles
<input type="checkbox"/>	Alto Saxophone	<input type="checkbox"/>	Trumpet	Other_____
<input type="checkbox"/>	Tenor Saxophone	<input type="checkbox"/>	Flugelhorn	Other_____
<input type="checkbox"/>	Baritone Saxophone	<input type="checkbox"/>	French Horn	Other_____
<input type="checkbox"/>	Bass Saxophone	<input type="checkbox"/>	Trombone	Other_____
<input type="checkbox"/>	Cornet	<input type="checkbox"/>	Bass Trombone	Other_____
<input type="checkbox"/>	Trumpet	<input type="checkbox"/>	Baritone Horn	
<input type="checkbox"/>	Flugelhorn	<input type="checkbox"/>	Mellophone	
<input type="checkbox"/>	French Horn	<input type="checkbox"/>	Euphonium	
<input type="checkbox"/>	Trombone	<input type="checkbox"/>	Tuba (Sizes:_____)	
<input type="checkbox"/>	Bass Trombone	<input type="checkbox"/>	Tuba (upright bell)	
<input type="checkbox"/>	Baritone Horn	<input type="checkbox"/>	Recording Bass	
<input type="checkbox"/>	Mellophone	<input type="checkbox"/>	Snare Drum 6-1/2" x 14" (17 x 36 cm)	
<input type="checkbox"/>	Euphonium	<input type="checkbox"/>	Snare Drum 8" x 14" (20 x 36 cm)	
<input type="checkbox"/>	Tuba (Sizes:_____)	<input type="checkbox"/>	Marching Drum 12" x 15" (30 x 38 cm)	
<input type="checkbox"/>	Tuba (upright bell)	<input type="checkbox"/>	Field Drum 15" x 18" (38 x 46 cm)	
<input type="checkbox"/>	Recording Bass	<input type="checkbox"/>	Bass Drum 14" x 22" (36 x 56 cm)	
<input type="checkbox"/>	Snare Drum 6-1/2" x 14" (17 x 36 cm)	<input type="checkbox"/>	Bass Drum 14" x 24" (36 x 61 cm)	
<input type="checkbox"/>	Snare Drum 8" x 14" (20 x 36 cm)	<input type="checkbox"/>	Bass Drum 14" x 28" (36 x 71 cm)	
		<input type="checkbox"/>	Bass Drum 16" x 30" (41 x 76 cm)	
		<input type="checkbox"/>	Bass Drum 16" x 32" (41 x 81 cm)	
		<input type="checkbox"/>	Percussion/ Bell Kit	
		<input type="checkbox"/>	Marching Trios	
		<input type="checkbox"/>	Marching Quads	
		<input type="checkbox"/>	Marching Quints	
		<input type="checkbox"/>	Sousaphone	
		<input type="checkbox"/>	Marching Mellophone	
		<input type="checkbox"/>	Marching Baritone	
		<input type="checkbox"/>	Marching Trombone	
		<input type="checkbox"/>	Marching French Horn	
		<input type="checkbox"/>	Violin	
		<input type="checkbox"/>	Viola	
		<input type="checkbox"/>	Cello	
		<input type="checkbox"/>	String Bass	
		<input type="checkbox"/>	Acoustic Guitar	
		<input type="checkbox"/>	Electric Guitar	
		<input type="checkbox"/>	Bass Guitar	
		<input type="checkbox"/>	Spanish Guitar	
		<input type="checkbox"/>	Guitarron	
		<input type="checkbox"/>	Vihuela	

Instrument Storage

Application Information

UltraStor™ Storage Cabinets

Our original, trusted and proven storage cabinets.

Our patented polyethylene shelves are just part of the best-built, most-reliable storage cabinets available. Heavy-duty hardware and top-quality doors further ensure reliable day-to-day operation and unparalleled durability when you buy Wenger storage cabinets.

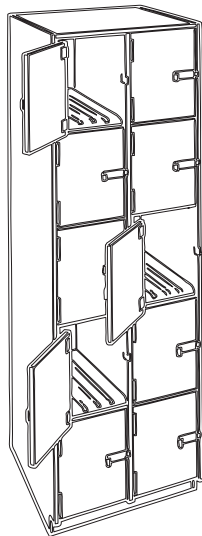
UltraStor cabinets are also designed to look great with virtually any décor. They're available in a range of sizes, colors and styles to fit a wide variety of needs. That includes different door types for different applications. Plus, UltraStor cabinets are modular so you can rearrange and even add units as needed.

Performance Requirements

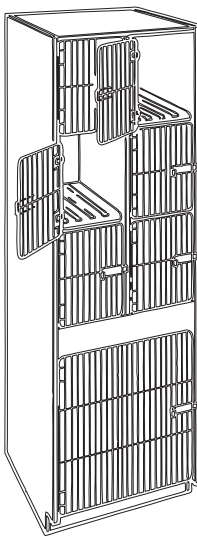
- Choice of solid doors, straight grille doors or no doors.
- Waterfall grille doors available for an extra charge.
- Polyester laminate and industrial grade composite wood core resists chipping and looks new years longer than other laminates.
- Shelves feature patented ventilation ridges and rounded front edges, improving airflow crucial to musical instrument, equipment, and garment longevity.
- Load-tested hinges and lock assemblies stand up to institutional use.
- 85-5/8" (217 cm), 69-3/4" (177 cm) and 385/16" (97 cm) heights available to meet your students' needs. Middle school and elementary school students cannot easily reach storage compartments more than 68" (173 cm) off the floor.
- Standard 27-1/2" (69.85 cm) wide and 21" (53.34 cm) narrow widths available.

Construction

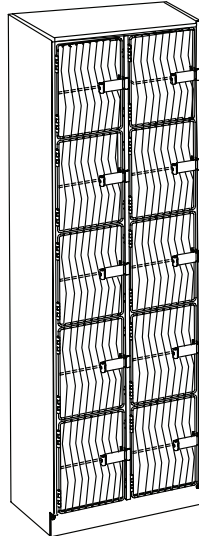
- Wall panels are 3/4" (19 mm) thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in Wenger standard colors.
- Available with right- or left-hinged (standard) doors for easy access.
- Bolt-through construction maintains superior door and hardware condition, year after year.
- Seismic-compliant bracing available upon request as a special order.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Available in several core substrates to meet your specific needs: fire-rated, no formaldehyde added industrial grade composite wood (standard), moisture-resistant, FSC certified and Vencore (plywood).
- Ten-year warranty.



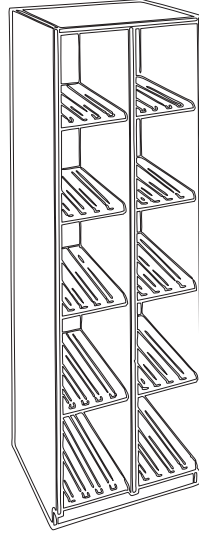
**Cabinet #4
with wood
compartment
doors**



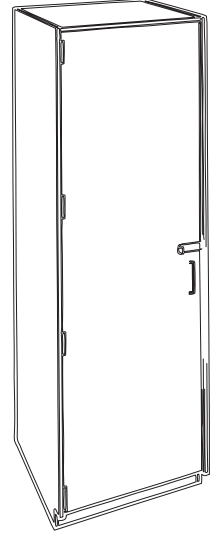
**Cabinet #6 with
straight grille
compartment
doors**



**Cabinet #4 with
waterfall grille
compartment
doors**



**Cabinet #4
without doors**



**Cabinet #4 with
full wood door**



Instrument Storage

Application Information

AcustiCabinets®

Need to have instrument storage in your rehearsal room? Wenger's unique patented solution minimizes the loss of cubic volume, provides sound absorption, and helps eliminate flutter echo caused by direct sound reflection.

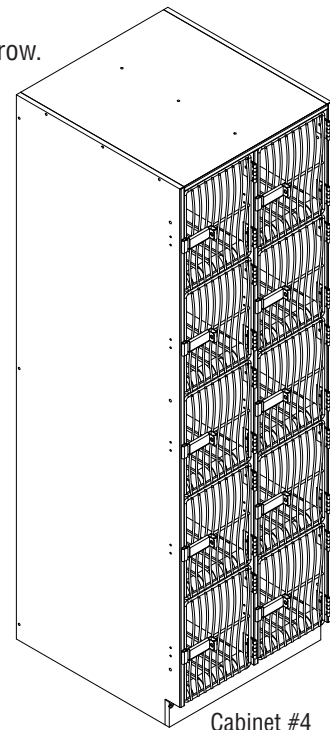
After working closely with acoustical consultants, Wenger has developed an instrument storage cabinet that combines specially designed grille doors, acoustically absorptive material and reliable durability to produce storage that can help enhance the room's acoustical performance.

Performance Requirements

- Waterfall design on grille doors provides a distinctive look, minimizes a room's cubic volume loss and reduces vibration.
- Solid steel lockable grille doors provide protection from theft or damage.
- Acoustically absorptive material at the back of the AcustiCabinet helps eliminate direct sound reflection while absorbing high and low frequencies.
- Environmentally friendly, acoustically absorptive material helps eliminate sound reflection.
- Patented polyethylene shelves, bolt-through construction, and heavy-duty hardware for unmatched durability.
- Polyester laminate and industrial grade composite wood core resists chipping and looks new years longer than other laminates.
- Shelves feature patented ventilation ridges and rounded front edges, improving airflow crucial to musical instrument, equipment, and garment longevity.
- Load-tested hinges and lock assemblies stand up to institutional use.
- 85-5/8" (217 cm), 69-3/4" (177 cm) and 38-5/16" (97 cm) heights available to meet your students' needs. Middle school and elementary school students cannot easily reach storage compartments more than 68" (173 cm) off the floor.
- Standard 27-1/2" (69.85 cm) wide and 21" (53.34 cm) narrow widths available.
- Acoustical performance, one-third Octave Band Center Frequency, Hz, for four 27-1/2" w x 21-3/4" d x 85-5/8" h (70 x 55 x 217 cm) in compliance with testing standards defined by ASTM C423-02a and E795-05 when installed as recommended.

Construction

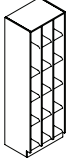
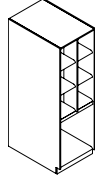
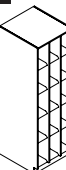
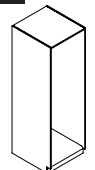
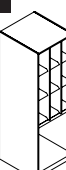
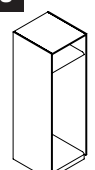
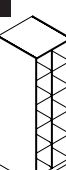
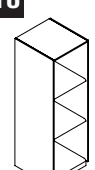
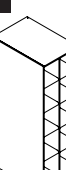
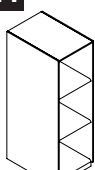
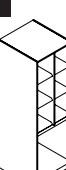
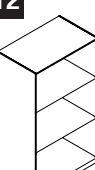
- Available in all standard Wenger cabinet sizes 1-28, 42 and 51-61 standard and narrow.
- Compartment grille door sizes are available for all standard Wenger cabinet sizes 1-28 and 51-61.
- Corner Cabinets not available in this configuration.
- Wall panels are 3/4" (19 mm) thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in Wenger standard colors.
- Available with right- or left-hinged (standard) doors for easy access.
- Bolt-through construction maintains superior door and hardware condition, year after year.
- Seismic-compliant bracing available upon request as a special order.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Available in several core substrates to meet your specific needs: fire-rated, no formaldehyde added industrial grade composite wood (standard), moisture-resistant, FSC certified, and Vencore (plywood).
- Ten-year warranty.



Instrument Storage

Application Information

Cabinet Specifications - UltraStor Storage Cabinets and AccoustiCabinets

<p>1</p>  <p>27-1/2" w x 19-1/4" d x 85-5/8" h (70 x 49 x 217 cm) Available in narrow width: 21-1/2" (55 cm) Stores 15 Clarinets, Flutes, Piccolos or Oboes. Compartments: 8" w x 17-3/8" d x 14-5/8" h (20 x 44 x 37 cm) Narrow width size: 6" (15 cm)</p>	<p>7</p>  <p>27-1/2" w x 39-1/4" d x 85-5/8" h (70 x 100 x 217 cm) Available in narrow width: 21-1/2" (55 cm) Stores 6 Trombones, Bassoons, Bass Clarinets, Violins, Violas, Tenor Sax or Alto Clarinets, and 1 Baritone Horn, Euphonium or Mellophone. Compartments: 12-3/8" w x 37-3/8" d x 14-5/8" h (31 x 95 x 37 cm) 25-1/2" w x 37-3/8" d x 25" h (65 x 95 x 64 cm) Narrow width sizes: 9-3/8" (23 cm), 19 1/2" (50 cm)</p>
<p>2</p>  <p>27-1/2" w x 29-1/4" d x 85-5/8" h (70 x 74 x 217 cm) Available in narrow width: 21-1/2" (55 cm) Stores 15 Clarinets, Flutes, Piccolos or Oboes. Compartments: 8" w x 27-3/8" d x 14-5/8" h (20 x 70 x 37 cm) Narrow width size: 6" (15 cm)</p>	<p>8</p>  <p>27-1/2" w x 29-1/4" d x 85-5/8" h (70 x 74 x 217 cm) Available in narrow width: 21-1/2" (55 cm) Stores 1 String Bass, Contra Bass Clarinet or Bass Drum, or use for General Storage. Compartments: 25-1/2" w x 27-3/8" d x 78-1/2" h (65 x 70 x 199 cm) Narrow width size: 19-1/2" (50 cm)</p>
<p>3</p>  <p>27-1/2" w x 29-1/4" d x 85-5/8" h (70 x 74 x 217 cm) Available in narrow width: 21-1/2" (55 cm) Stores 9 Clarinets, Flutes, Piccolos or Oboes, and 1 French Horn, Alto Horn or Snare Drum. Compartments: 8" w x 27-3/8" d x 14-5/8" h (20 x 70 x 37 cm) 25-1/2" w x 27-3/8" d x 25" h (65 x 70 x 64 cm) Narrow width sizes: 6" (15 cm), 19 1/2" (50 cm)</p>	<p>9</p>  <p>27-1/2" w x 29-1/4" d x 85-5/8" h (70 x 74 x 217 cm) Available in narrow width: 21-1/2" (55 cm) Stores 1 Cello or Guitar, and 1 Snare Drum or Field Drum or use for General Storage. Compartments: 25-1/2" w x 27-3/8" d x 14-5/8" h (65 x 70 x 37 cm) 25-1/2" w x 27-3/8" d x 61-7/8" h (65 x 70 x 157 cm) Narrow width size: 19-1/2" (50 cm)</p>
<p>4</p>  <p>27-1/2" w x 29-1/4" d x 85-5/8" h (70 x 74 x 217 cm) Available in narrow width: 21-1/2" (55 cm) Stores 10 Trumpets, Cornets or Alto Saxophones. Compartments: 12-3/8" w x 27-3/8" d x 14-5/8" h (31 x 70 x 37 cm) Narrow width size: 9-3/8" (23 cm)</p>	<p>10</p>  <p>27-1/2" w x 29-1/4" d x 85-5/8" h (70 x 74 x 217 cm) Available in narrow width: 21-1/2" (55 cm) Stores 3 French Horns, Alto Horns or Snare Drums. Compartments: 25-1/2" w x 27-3/8" d x 25" h (65 x 70 x 64 cm) Narrow width size: 19-1/2" (50 cm)</p>
<p>5</p>  <p>27-1/2" w x 39-1/4" d x 85-5/8" h (70 x 100 x 217 cm) Available in narrow width: 21-1/2" (55 cm) Stores 10 Trombones, Bassoons, Bass Clarinets, Violins, Violas, Tenor Saxophones or Alto Clarinets. Compartments: 12-3/8" w x 37-3/8" d x 14-5/8" h (31 x 95 x 37 cm) Narrow width size: 9-3/8" (23 cm)</p>	<p>11</p>  <p>27-1/2" w x 39-1/4" d x 85-5/8" h (70 x 100 x 217 cm) Available in narrow width: 21-1/2" (55 cm) Stores 3 Baritones, Euphoniums or Mellophones. Compartments: 25-1/2" w x 37-3/8" d x 25" h (65 x 95 x 64 cm) Narrow width size: 19-1/2" (50 cm)</p>
<p>6</p>  <p>27-1/2" w x 29-1/4" d x 85-5/8" h (70 x 74 x 217 cm) Available in narrow width: 21-1/2" (55 cm) Stores 6 Trumpets, Cornets or Alto Saxophones, and 1 French Horn, Alto Horn or Snare Drum. Compartments: 12-3/8" w x 27-3/8" d x 14-5/8" h (31 x 70 x 37 cm) 25-1/2" w x 27-3/8" d x 25" h (65 x 70 x 64 cm) Narrow width sizes: 9-3/8" (23 cm), 19 1/2" (50 cm)</p>	<p>12</p>  <p>48-1/2" w x 29-1/4" d x 85-5/8" h (123 x 74 x 217 cm) Stores 3 Baritone Saxophones, Bass Clarinets, Bassoons, Field Drums, or Snare Drums or for General Storage. Compartments: 46-1/2" w x 27-3/8" d x 23-3/4" h (118 x 70 x 60 cm)</p>

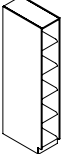
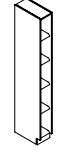
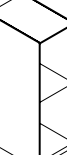
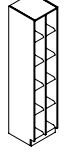
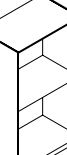
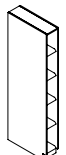

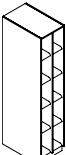
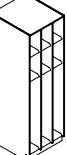
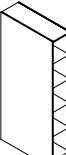
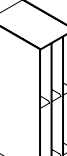
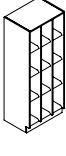
Using your instrumentation list and our exclusive software program, we'll analyze your needs and space requirements and create an instrument storage layout using the most suitable cabinets.

Cabinets shown without doors.

Instrument Storage

Application Information

Cabinet Specifications - UltraStor Storage Cabinets and AccoustiCabinets

<p>13</p>  <p>143-8" w x 29-1/4" d x 85-5/8" h (37 x 74 x 217 cm) Av-ailable in narrow width: 11-3/8" (29 cm) Stores 5 Trumpets, Cornets or Alto Saxophones. Compartments: 12-3/8" w x 27-3/8" d x 14-5/8" h (31 x 70 x 37 cm) Narrow width size: 9-3/8" (23 cm)</p>	<p>20</p>  <p>10" w x 19-1/4" d x 85-5/8" h (25 x 49 x 217 cm) Available in narrow width: 8" (20 cm) Stores 5 Clarinets, Flutes, Piccolos or Oboes. Compartments: 8" w x 17-3/8" d x 14-5/8" h (20 x 44 x 37 cm) Narrow width size: 6" (15 cm)</p>
<p>14</p>  <p>27-1/2" w x 39-1/4" d x 85-5/8" h (70 x 100 x 217 cm) Available in narrow width: 21-1/2" (55 cm) Stores 2 Bass Drums, Field Drums, Snare Drums or Parade Drums. Compartments: 25-1/2" w x 37-1/4" d x 37-3/8" h (65 x 95 x 95 cm) Narrow width size: 19-1/2" (50 cm)</p>	<p>21</p>  <p>18-3/4" w x 19-1/4" d x 85-5/8" h (48 x 49 x 217 cm) Available in narrow width: 14-3/4" (38 cm) Stores 10 Clarinets, Flutes, Piccolos or Oboes. Compartments: 8" w x 17-3/8" d x 14-5/8" h (20 x 44 x 37 cm) Narrow width size: 6" (15 cm)</p>
<p>15</p>  <p>48-1/2" w x 29-1/4" d x 85-5/8" h (123 x 74 x 217 cm) Stores 2 Bass Drums, Field Drums, Snare Drums, Parade Drums, Tri-Toms, Quads, Tubas or Sousaphones (bell detached) Compartments: 46-1/2" w x 27-7/8" d x 37" h (118 x 71 x 94 cm)</p>	<p>22</p>  <p>10" w x 29-1/4" d x 85-5/8" h (25 x 74 x 217 cm) Available in narrow width: 8" (20 cm) Stores 5 Clarinets, Flutes, Piccolos or Oboes. Compartments: 8" w x 27-3/8" d x 14-5/8" h (20 x 70 x 37 cm) Narrow width size: 6" (15 cm)</p>
<p>17</p>  <p>60-1/2" w x 39-1/4" d x 85-5/8" h (154 x 100 x 217 cm) Stores 1 Timpani, Chimes, Small Vibes and Xylophones, Marimbas and Gongs. Compartments: 58-1/2" w x 37-3/8" d x 83-1/4" h (149 x 95 x 211 cm) Shelf is adjustable. Heights can vary.</p>	<p>23</p>  <p>18-3/4" w x 29-1/4" d x 85-5/8" h (48 x 74 x 217 cm) Available in narrow width: 14-3/4" (38 cm) Stores 10 Clarinets, Flutes, Piccolos or Oboes. Compartments: 8" w x 27-3/8" d x 14-5/8" h (20 x 70 x 37 cm) Narrow width size: 6" (15 cm)</p>
<p>18</p>  <p>27-1/2" w x 29-1/4" d x 85-5/8" h (70 x 74 x 217 cm) Stores 3 Guitars and 6 Clarinets, Flutes, Piccolos or Oboes. Compartments: 8" w x 27-3/8" d x 14-5/8" h (20 x 70 x 37 cm) 8" w x 27-3/8" d x 48-1/4" h (20 x 70 x 122 cm)</p>	<p>24</p>  <p>14-3/8" w x 39-1/4" d x 85-5/8" h (37 x 100 x 217 cm) Available in narrow width: 11-3/8" (29 cm) Stores 5 Trombones, Bassoons, Bass Clarinets, Violins, Violas, Tenor Saxophones or Alto Clarinets. Compartments: 12-3/8" w x 37-3/8" d x 14-5/8" h (31 x 95 x 37 cm) Narrow width size: 9-3/8" (23 cm)</p>
<p>19</p>  <p>27-1/2" w x 39-1/4" d x 85-5/8" h (70 x 100 x 217 cm) Stores 6 Acoustic Guitars. Compartments: 8" w x 37-3/8" d x 38-1/4" h (20 x 95 x 97 cm)</p>	<p>25</p>  <p>27-1/2" w x 19-1/4" d x 69-3/4" h (70 x 49 x 177 cm) Available in narrow width: 21-1/2" (55 cm) Stores 12 Clarinets, Flutes, Piccolos or Oboes. Compartments: 8" w x 17-3/8" d x 14-5/8" h (20 x 44 x 37 cm) Narrow width size: 6" (15 cm)</p>

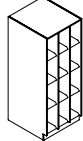
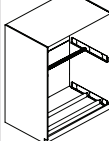
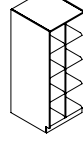
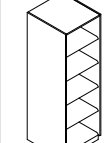
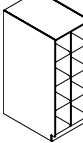
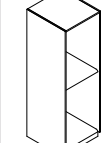
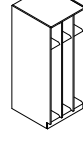
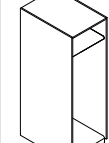
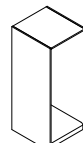
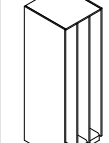
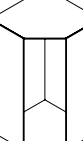
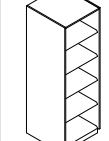
Using your instrumentation list and our exclusive software program, we'll analyze your needs and space requirements and create an instrument storage layout using the most suitable cabinets.

Cabinets shown without doors.

Instrument Storage

Application Information

Cabinet Specifications - UltraStor Storage Cabinets and AccoustiCabinets

<p>26</p>  <p>27-1/2" w x 29-1/4" d x 69-3/4" h (70 x 74 x 177 cm) Available in narrow width: 21-1/2" (55 cm) Stores 10 Clarinets, Flutes, Piccolos or Oboes. Compartments: 8" w x 27-3/8" d x 14-5/8" h (20 x 70 x 37 cm) Narrow width size: 6" (15 cm)</p>	<p>42</p>  <p>60-1/2" w x 39-1/2" d x 85-5/8" h (154 x 101 x 217 cm) Stores up to 3 Bass, 4 Cellos, 18 Guitars or 20 Violins/Violas. Compartments: 58-1/2" w x 37-3/4" d x 81" h (149 x 96 x 206 cm)</p>
<p>27</p>  <p>27-1/2" w x 29-1/4" d x 69-3/4" h (70 x 74 x 177 cm) Available in narrow width: 21-1/2" (55 cm) Stores 8 Trumpets, Cornets or Alto Saxophones. Compartments: 12-3/8" w x 27-3/8" d x 14-5/8" h (31 x 70 x 37 cm) Narrow width size: 9-3/8" (23 cm)</p>	<p>43</p>  <p>27-1/2" w x 39-1/4" d x 85-5/8" h (70 x 100 x 217 cm) Available in narrow width: 21-1/2" (55 cm) Stores 5 Trombones, Bass Trombones or Orchestra Bells. Compartments: 25-1/2" w x 37-3/8" d x 14-5/8" h (65 x 95 x 37 cm) Narrow width size: 19-1/2" (50 cm)</p>
<p>28</p>  <p>27-1/2" w x 39-1/4" d x 69-3/4" h (70 x 100 x 177 cm) Available in narrow width: 21-1/2" (55 cm) Stores 8 Trombones, Bassoons, Bass Clarinets, Violins, Violas, Tenor Saxophones or Alto Clarinets. Compartments: 12-3/8" w x 37-3/8" d x 14-5/8" h (31 x 95 x 37 cm) Narrow width size: 9-3/8" (23 cm)</p>	<p>44</p>  <p>27-1/2" w x 29-1/4" d x 85-5/8" h (70 x 74 x 217 cm) Available in narrow width: 21-1/2" (55 cm) Stores 2 Bass Drums. Compartments: 25-1/2" w x 27-3/8" d x 37-3/8" h (65 x 70 x 95 cm) Narrow width size: 19-1/2" (50 cm)</p>
<p>29</p>  <p>27-1/2" w x 29-1/4" d x 69-3/4" h (70 x 74 x 177 cm) Stores 3 Guitars and 3 Clarinets, Flutes, Piccolos or Oboes. Compartments: 8" w x 27-3/8" d x 14-5/8" h (20 x 70 x 37 cm) 8" w x 27-3/8" d x 48-1/4" h (20 x 70 x 123 cm)</p>	<p>45</p>  <p>27-1/2" w x 39-1/4" d x 85-5/8" h (70 x 101 x 217 cm) Available in narrow width: 21-1/2" (55 cm) Stores 1 Snare Drum and 1 Cello or Guitar. Compartments: 25-1/2" w x 37-3/8" d x 14-5/8" h (65 x 95 x 37 cm) 25-1/2" w x 37-3/8" d x 61-7/8" h (65 x 95 x 157 cm) Narrow width size: 19-1/2" (50 cm)</p>
<p>30</p>  <p>27-1/2" w x 29-1/4" d x 69-3/4" h (70 x 74 x 177 cm) Available in narrow width: 21-1/2" (55 cm) Stores 1 Cello or Guitar. Compartments: 25-1/2" w x 27-3/8" d x 61-7/8" h (65 x 70 x 157 cm) Narrow width size: 19-1/2" (50 cm)</p>	<p>46</p>  <p>27-1/2" w x 29-1/4" d x 85-5/8" h (70 x 74 x 217 cm) Stores Flags, 3 Contrabassoons or 3 Electric Guitars. Compartments: 8" w x 27-3/8" d x 78-1/2" h (20 x 70 x 199 cm)</p>
<p>41</p>  <p>48-1/4" w x 48-1/4" d x 85-5/8" h (22 x 22 x 217 cm) Stationary and revolving shelf models available for instrument, garment and flag/rifle storage. Contact your Wenger representative for best utilization details.</p>	<p>47</p>  <p>27-1/2" w x 29-1/4" d x 85-5/8" h (70 x 74 x 217 cm) Available in narrow width: 21-1/2" (55 cm) Stores 5 Mellophones, Marching Trombones or Snare Drums. Compartments: 25-1/2" w x 27-3/8" d x 14-5/8" h (65 x 70 x 37 cm) Narrow width size: 19-1/2" (50 cm)</p>

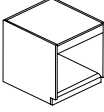
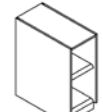
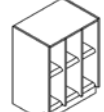
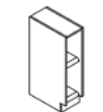

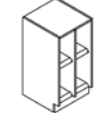

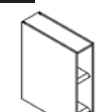




Using your instrumentation list and our exclusive software program, we'll analyze your needs and space requirements and create an instrument storage layout using the most suitable cabinets.

Cabinets shown without doors.

Instrument Storage

Application Information

Cabinet Specifications - UltraStor Storage Cabinets and AccoustiCabinets

<p>50</p>  <p>27-1/2" w x 39-1/4" d x 38-5/16" h (70 x 100 x 97 cm) Add 1-1/8" (2.86 cm) to height if work surface top is included. Available in narrow width: 21-1/2" (55 cm) Stores 1 Baritone, Euphonium or Mellophone.</p> <p>Compartments: 25-1/2" w x 37-3/8" d x 25" h (65 x 95 x 64 cm) Narrow width size: 19-1/2" (50 cm)</p>	<p>56</p>  <p>14-3/8" w x 29-1/4" d x 38-5/16" h (37 x 74 x 97 cm) Add 1-1/8" (2.86 cm) to height if work surface top is included. Available in narrow width: 11-3/8" (29 cm) Stores 2 Trumpets, Comets or Alto Saxophones.</p> <p>Compartments: 12-3/8" w x 27-3/8" d x 14-5/8" h (31 x 70 x 37 cm) Narrow width size: 9-3/8" (23 cm)</p>
<p>51</p>  <p>27-1/2" w x 19-1/4" d x 38-5/16" h (70 x 49 x 97 cm) Add 1-1/8" (2.86 cm) to height if work surface top is included. Available in narrow width: 21-1/2" (55 cm) Stores 6 Clarinets, Flutes, Piccolos or Oboes.</p> <p>Compartments: 8" w x 17-3/8" d x 14-5/8" h (20 x 44 x 37 cm) Narrow width size: 6" (15 cm)</p>	<p>57</p>  <p>10" w x 19-1/4" d x 38-5/16" h (25 x 49 x 97 cm) Add 1-1/8" (2.86 cm) to height if work surface top is included. Available in narrow width: 8" (20 cm) Stores 2 Clarinets, Flutes, Piccolos or Oboes.</p> <p>Compartments: 8" w x 17-3/8" d x 14-5/8" h (20 x 44 x 37 cm) Narrow width size: 6" (15 cm)</p>
<p>52</p>  <p>27-1/2" w x 29-1/4" d x 38-5/16" h (70 x 74 x 97 cm) Add 1-1/8" (2.86 cm) to height if work surface top is included. Available in narrow width: 21-1/2" (55 cm) Stores 6 Clarinets, Flutes, Piccolos or Oboes.</p> <p>Compartments: 8" w x 27-3/8" d x 14-5/8" h (20 x 70 x 37 cm) Narrow width size: 6" (15 cm)</p>	<p>58</p>  <p>18-3/4" w x 19-1/4" d x 38-5/16" h (48 x 49 x 97 cm) Add 1-1/8" (2.86 cm) to height if work surface top is included. Available in narrow width: 14-3/4" (38 cm) Stores 4 Clarinets, Flutes, Piccolos or Oboes.</p> <p>Compartments: 8" w x 17-3/8" d x 14-5/8" h (20 x 44 x 37 cm) Narrow width size: 6" (15 cm)</p>
<p>53</p>  <p>27-1/2" w x 29-1/4" d x 38-5/16" h (70 x 74 x 97 cm) Add 1-1/8" (2.86 cm) to height if work surface top is included. Available in narrow width: 21-1/2" (55 cm) Stores 1 French Horn, Alto Horn or Snare Drum.</p> <p>Compartments: 25-1/2" w x 27-3/8" d x 25" h (65 x 70 x 64 cm) Narrow width size: 19-1/2" (50 cm)</p>	<p>59</p>  <p>10" w x 29-1/4" d x 38-5/16" h (25 x 74 x 97 cm) Add 1-1/8" (2.86 cm) to height if work surface top is included. Available in narrow width: 8" (20 cm) Stores 2 Clarinets, Flutes, Piccolos or Oboes.</p> <p>Compartments: 8" w x 27-3/8" d x 14-5/8" h (20 x 70 x 37 cm) Narrow width size: 6" (15 cm)</p>
<p>54</p>  <p>27-1/2" w x 29-1/4" d x 38-5/16" h (70 x 74 x 97 cm) Add 1-1/8" (2.86 cm) to height if work surface top is included. Available in narrow width: 21-1/2" (55 cm) Stores 4 Trumpets, Cornets or Alto Saxophones.</p> <p>Compartments: 12-3/8" w x 27-3/8" d x 14-5/8" h (31 x 70 x 37 cm) Narrow width size: 9-3/8" (23 cm)</p>	<p>60</p>  <p>18-3/4" w x 29-1/4" d x 38-5/16" h (48 x 74 x 97 cm) Add 1-1/8" (2.86 cm) to height if work surface top is included. Available in narrow width: 21-1/2" (55 cm) Stores 6 Clarinets, Flutes, Piccolos or Oboes.</p> <p>Compartments: 8" w x 27-3/8" d x 14-5/8" h (20 x 70 x 37 cm) Narrow width size: 6" (15 cm)</p>
<p>55</p>  <p>27-1/2" w x 39-1/4" d x 38-5/16" h (70 x 100 x 97 cm) Add 1-1/8" (2.86 cm) to height if work surface top is included. Available in narrow width: 21-1/2" (55 cm) Stores 4 Trombones, Bassoons, Bass Clarinets, Violins, Violas, Tenor Saxophones or Alto Clarinets.</p> <p>Compartments: 12-3/8" w x 27-3/8" d x 14-5/8" h (31 x 95 x 37 cm) Narrow width size: 9-3/8" (23 cm)</p>	<p>61</p>  <p>14-3/8" w x 39-1/4" d x 38-5/16" h (37 x 100 x 97 cm) Add 1-1/8" (2.86 cm) to height if work surface top is included. Available in narrow width: 11-3/8" (29 cm) Stores 4 Trombones, Bassoons, Bass Clarinets, Violins, Violas, Tenor Saxophones, or Alto Clarinets.</p> <p>Compartments: 12-3/8" w x 37-3/8" d x 14-5/8" h (31 x 95 x 37 cm) Narrow width size: 9-3/8" (23 cm)</p>

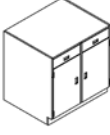
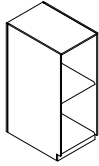
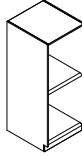
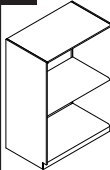
Using your instrumentation list and our exclusive software program, we'll analyze your needs and space requirements and create an instrument storage layout using the most suitable cabinets.

Cabinets shown without doors.

Instrument Storage

Application Information

Cabinet Specifications - UltraStor Storage Cabinets and AccoustiCabinets

<p>62</p>  <p>36" w x 29-1/4" d x 38-5/16" h (73 x 74 x 97 cm) Add 1-1/8" (2.86 cm) to height if work surface top is included. General Storage.</p> <p>Compartments: 16-3/8" w x 27-3/8" d x 26-1/2" h (43 x 70 x 67 cm)</p> <p>Drawers: 15-11/16" w x 19-5/8" d x 43/8" h (40 x 50 x 11 cm)</p>	<p>66</p>  <p>27-1/2" w x 39-1/2" d x 69-3/4" h (70 x 100 x 177 cm) Available in narrow width: 21-1/2" (55 cm) Stores 2 Baritone Horns, Euphoniums or Mellophones.</p> <p>Compartments: 25-1/2" w x 37-3/8" d x 30-3/4" h (65 x 95 x 78 cm) Narrow width size: 19-1/2" (50 cm)</p>
<p>65</p>  <p>27-1/2" w x 29-1/4" d x 69-3/4" h (70 x 74 x 177 cm) Available in narrow width: 21-1/2" (55 cm) Stores 2 Fench Horns, Snare Drums or Mellophones.</p> <p>Compartments: 25-1/2" w x 27-3/8" d x 30-3/4" h (65 x 70 x 78 cm) Narrow width size: 19-1/2" (50 cm)</p>	<p>67</p>  <p>48-1/2" w x 29-1/4" d x 69-3/4" h (123 x 74 x 177 cm) Stores 2 Baritone Saxophones, Bass Clarinets or Field/Snare Drums.</p> <p>Compartments: 46-1/2" w x 27-3/8" d x 30-3/4" h (118 x 70 x 78 cm)</p>

Using your instrumentation list and our exclusive software program, we'll analyze your needs and space requirements and create an instrument storage layout using the most suitable cabinets.

Cabinets shown without doors.

Instrument Storage

Typical Drawings

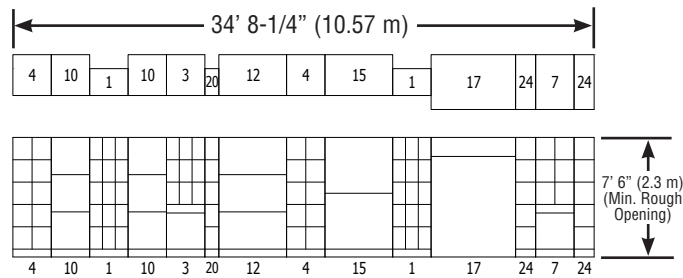
UltraStor Storage Cabinets and AccoustiCabinets - Band Instruments Suggested Cabinet Sets

1. The set capacities are based on storing one instrument per compartment.
2. These drawings are not to scale.
3. Plan and Elevation Views shown in Typical Drawing section.

NOTE: Cabinet CAD and Revit symbols are available, please contact Wenger.
Cabinets shown without doors.

Set B-85

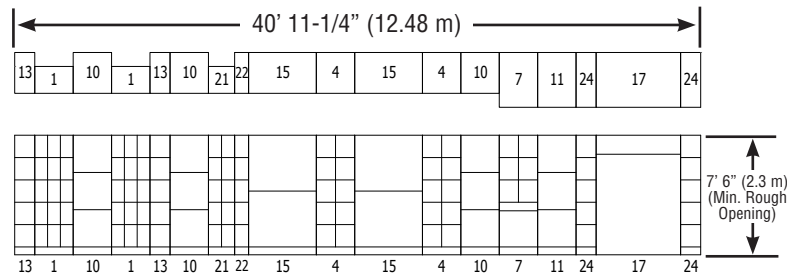
85 Band Instruments



Qty.	Description
2	#1 Cabinet
1	#3 Cabinet
2	#4 Cabinet
1	#7 Cabinet
2	#10 Cabinet
1	#12 Cabinet
1	#15 Cabinet
1	#17 Cabinet
1	#20 Cabinet
2	#24 Cabinet
14	Total

Set B-100

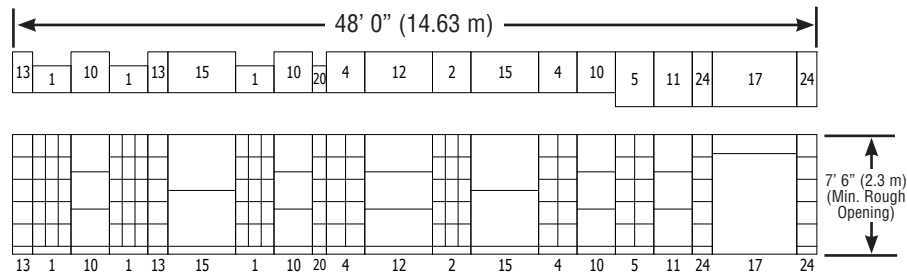
100 Band Instruments



Qty.	Description
2	#1 Cabinet
2	#4 Cabinet
1	#7 Cabinet
3	#10 Cabinet
1	#11 Cabinet
2	#13 Cabinet
2	#15 Cabinet
1	#17 Cabinet
1	#21 Cabinet
1	#22 Cabinet
2	#24 Cabinet
18	Total

Set B-120

120 Band Instruments



Qty.	Description
3	#1 Cabinet
1	#2 Cabinet
2	#4 Cabinet
1	#5 Cabinet
3	#10 Cabinet
1	#11 Cabinet
1	#12 Cabinet
2	#13 Cabinet
2	#15 Cabinet
1	#17 Cabinet
1	#20 Cabinet
2	#24 Cabinet
20	Total

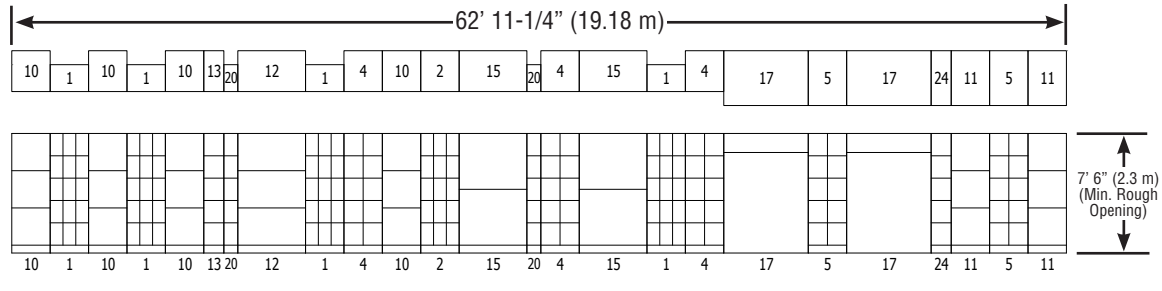
Instrument Storage

Typical Drawings

UltraStor Storage Cabinets and AcoustiCabinets - Band Instruments Suggested Cabinet Sets (continued)

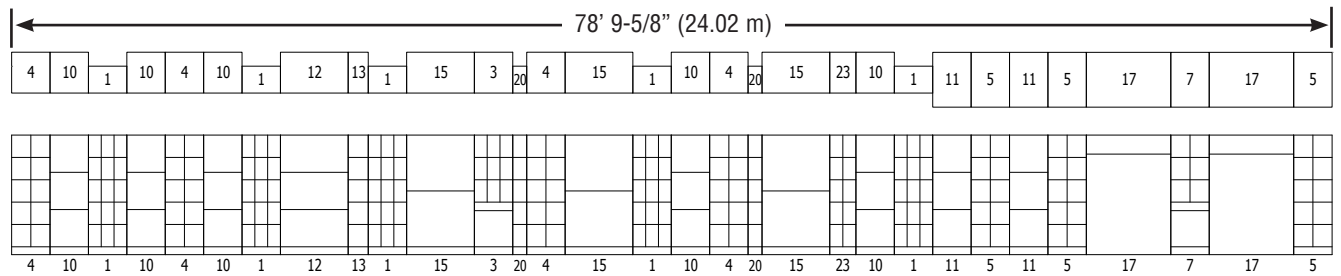
Set B-150

150 Band Instruments



Set B-200

200 Band Instruments



Qty.	Description
5	#1 Cabinet
1	#3 Cabinet
4	#4 Cabinet
3	#5 Cabinet
1	#7 Cabinet
5	#10 Cabinet
2	#11 Cabinet
1	#12 Cabinet
1	#13 Cabinet
3	#15 Cabinet
2	#17 Cabinet
2	#20 Cabinet
1	#23 Cabinet
31	Total

NOTES:

1. In an area where soffits are to be constructed above Wenger cabinets, a minimum rough opening height of 7' 6" (2.3 m) is required for cabinet installation.
2. Standard door is left-hand swing. Right-hand swing door is available.
3. Closure panels available.
4. End covers available.

Instrument Storage

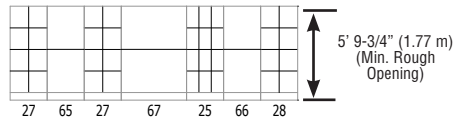
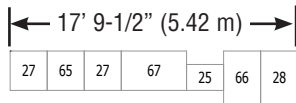
Typical Drawings

Elementary Programs 68" high Cabinets

UltraStor Storage Cabinets and AcoustiCabinets - Band and Orchestra Instruments Suggested Cabinet Sets for Elementary (continued)

Set B-40

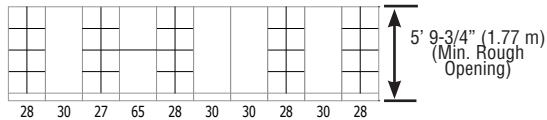
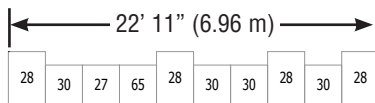
40 Band Instruments



Qty.	Description
1	#25 Cabinet
2	#27 Cabinet
1	#28 Cabinet
1	#65 Cabinet
1	#66 Cabinet
1	#67 Cabinet
7	Total

Set O-40

40 Orchestra Instruments



Qty.	Description
1	#27 Cabinet
4	#28 Cabinet
4	#30 Cabinet
1	#65 Cabinet
10	Total

Instrument Storage

Typical Drawings

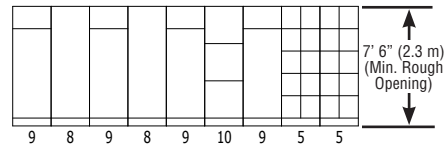
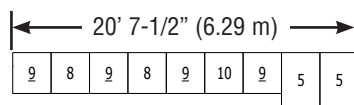
UltraStor Storage Cabinets and AcoustiCabinets - Orchestra Instruments Suggested Cabinet Sets

1. The set capacities are based on storing one instrument per compartment.
2. These drawings are not to scale.
3. Plan and Elevation Views shown in Typical Drawing section.

NOTE: Cabinet CAD and Revit symbols are available, please contact Wenger.
Cabinets shown without doors.

Set O-30

30 Orchestra Instruments

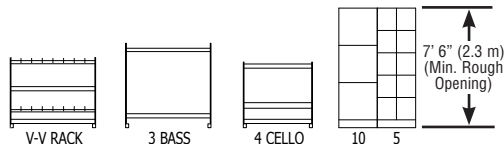
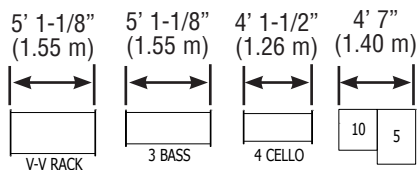


Qty.	Description
2	#5 Cabinet
2	#8 Cabinet
4	#9 Cabinet
1	#10 Cabinet
9	Total

Alternate suggested cabinet set (with violin/viola, string bass and cello racks).

Set O-30A

30 Orchestra Instruments



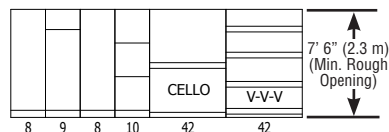
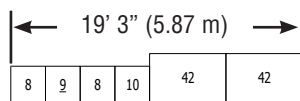
Qty.	Description
1	#5 Cabinet
1	#10 Cabinet
1	3 Unit Bass Rack
1	4 Unit Cello Rack
1	Violin/Viola Rack
5	Total

This A Series set substitutes portable string instrument racks for cabinets. This helps to conserve space. These alternate storage sets are available for all the orchestra sets shown.

Alternate suggested cabinet set (with stringed instrument storage cabinet).

Set O-30B

30 Orchestra Instruments



Qty.	Description
2	#8 Cabinet
1	#9 Cabinet
1	#10 Cabinet
1	#42 Cabinet Cello
1	#42 Cabinet V-V-V
6	Total

This B Series set utilizes a #42 stringed instrument storage cabinet for different storage possibilities. These alternate storage sets are available for all the orchestra sets shown.

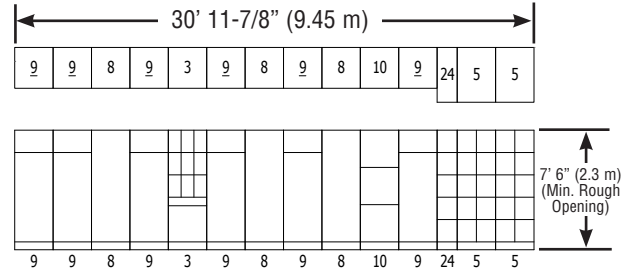
Instrument Storage

Typical Drawings

UltraStor Storage Cabinets and AcoustiCabinets - Orchestra Instruments Suggested Cabinet Sets (continued)

Set O-40

40 Orchestra Instruments

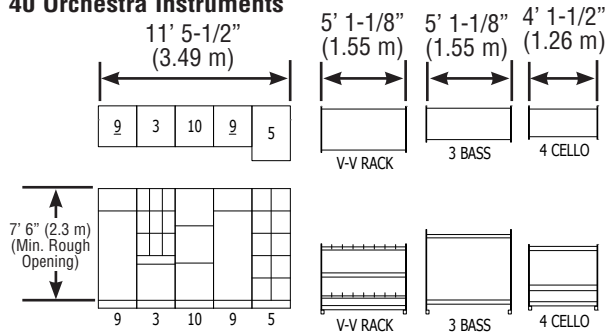


Qty.	Description
1	#3 Cabinet
2	#5 Cabinet
3	#8 Cabinet
6	#9 Cabinet
1	#10 Cabinet
1	#24 Cabinet
14	Total

Alternate suggested cabinet set (with violin/viola, string bass and cello racks).

Set O-40A

40 Orchestra Instruments



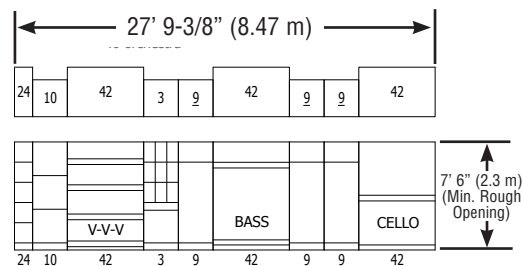
Qty.	Description
1	#3 Cabinet
1	#5 Cabinet
1	#9 Cabinet
1	#10 Cabinet
1	3 Unit Bass Rack
1	4 Unit Cello Rack
1	Violin/Viola Rack
8	Total

This A Series set substitutes portable string instrument racks for cabinets. This helps to conserve space. These alternate storage sets are available for all the orchestra sets shown.

Alternate suggested cabinet set (with stringed instrument storage cabinet).

Set O-40B

40 Orchestra Instruments



Qty.	Description
1	#3 Cabinet
3	#9 Cabinet
1	#10 Cabinet
1	#24 Cabinet
1	#42 Cabinet Bass
1	#42 Cabinet Cello
1	#42 Cabinet V-V-V
9	Total

This B Series set utilizes a #42 stringed instrument storage cabinet for different storage possibilities. These alternate storage sets are available for all the orchestra sets shown.

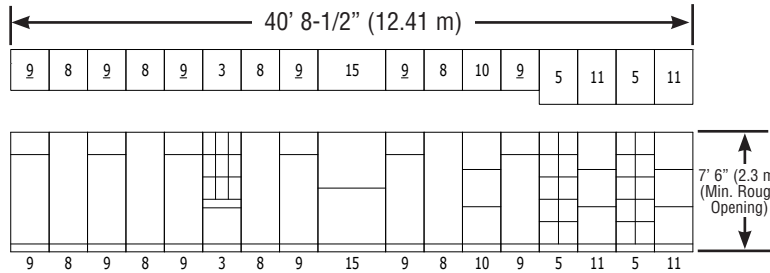
Instrument Storage

Typical Drawings

UltraStor Storage Cabinets and AcustiCabinets - Orchestra Instruments Suggested Cabinet Sets (continued)

Set O-50

50 Orchestra Instruments

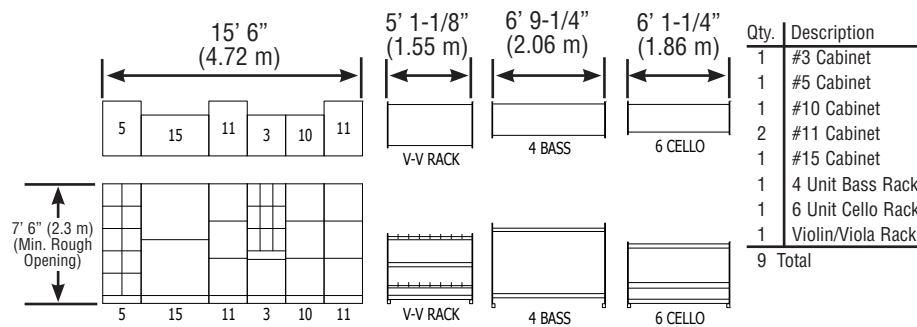


Qty.	Description
1	#3 Cabinet
2	#5 Cabinet
4	#8 Cabinet
6	#9 Cabinet
1	#10 Cabinet
2	#11 Cabinet
1	#15 Cabinet
17	Total

Alternate suggested cabinet set (with violin/viola, string bass and cello racks).

Set O-50A

50 Orchestra Instruments



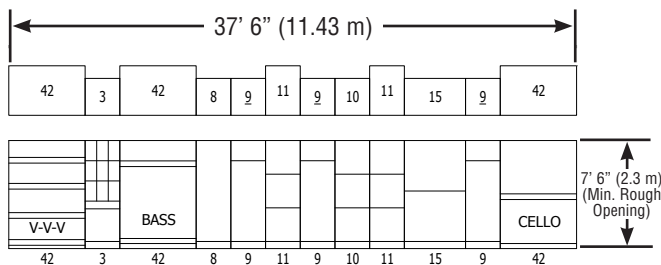
Qty.	Description
1	#3 Cabinet
1	#5 Cabinet
1	#10 Cabinet
2	#11 Cabinet
1	#15 Cabinet
1	4 Unit Bass Rack
1	6 Unit Cello Rack
1	Violin/Viola Rack
9	Total

This A Series set substitutes portable string instrument racks for cabinets. This helps to conserve space. These alternate storage sets are available for all the orchestra sets shown.

Alternate suggested cabinet set (with stringed instrument storage cabinet).

Set O-50B

30 Orchestra Instruments



Qty.	Description
1	#3 Cabinet
1	#8 Cabinet
3	#9 Cabinet
1	#10 Cabinet
2	#11 Cabinet
1	#15 Cabinet
1	#42 Cabinet Bass
1	#42 Cabinet Cello
1	#42 Cabinet V-V-V
12	Total

This B Series set utilizes a #42 stringed instrument storage cabinet for different storage possibilities. These alternate storage sets are available for all the orchestra sets shown.

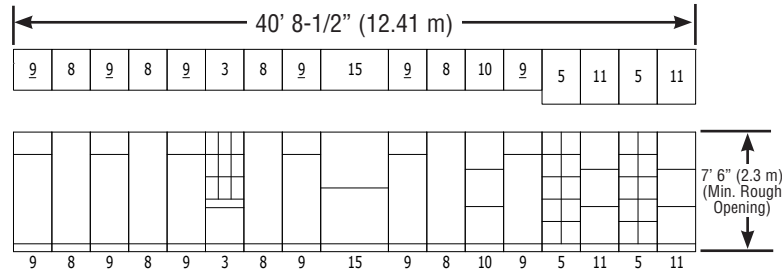
Instrument Storage

Typical Drawings

UltraStor Storage Cabinets and AcoustiCabinets - Orchestra Instruments Suggested Cabinet Sets (continued)

Set O-50

50 Orchestra Instruments

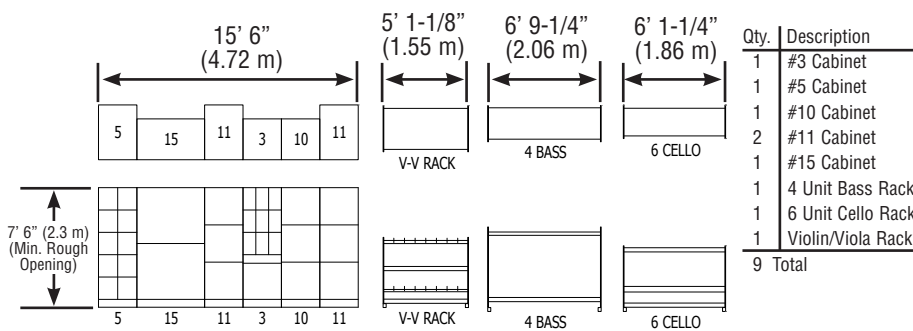


Qty.	Description
1	#3 Cabinet
2	#5 Cabinet
4	#8 Cabinet
6	#9 Cabinet
1	#10 Cabinet
2	#11 Cabinet
1	#15 Cabinet
17	Total

Alternate suggested cabinet set (with violin/viola, string bass and cello racks).

Set O-50A

50 Orchestra Instruments



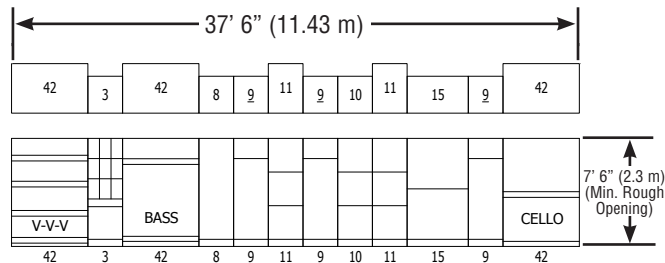
Qty.	Description
1	#3 Cabinet
1	#5 Cabinet
1	#10 Cabinet
2	#11 Cabinet
1	#15 Cabinet
1	4 Unit Bass Rack
1	6 Unit Cello Rack
1	Violin/Viola Rack
9	Total

This A Series set substitutes portable string instrument racks for cabinets. This helps to conserve space. These alternate storage sets are available for all the orchestra sets shown.

Alternate suggested cabinet set (with stringed instrument storage cabinet).

Set O-50B

30 Orchestra Instruments



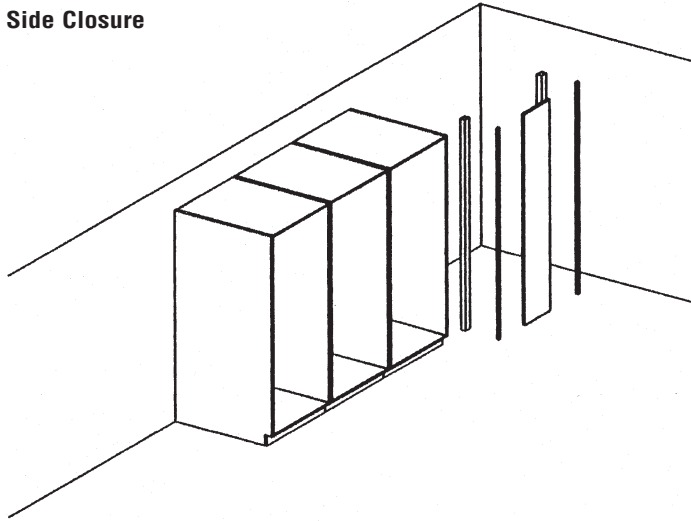
Qty.	Description
1	#3 Cabinet
1	#8 Cabinet
3	#9 Cabinet
1	#10 Cabinet
2	#11 Cabinet
1	#15 Cabinet
1	#42 Cabinet Bass
1	#42 Cabinet Cello
1	#42 Cabinet V-V-V
12	Total

This B Series set utilizes a #42 stringed instrument storage cabinet for different storage possibilities. These alternate storage sets are available for all the orchestra sets shown.

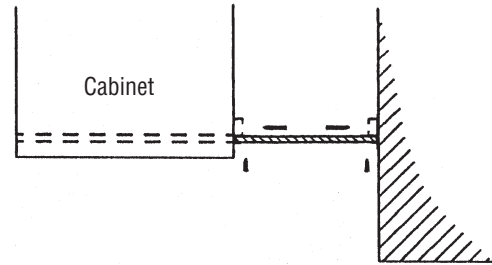
Instrument Storage

Cabinet Accessories - UltraStor Storage Cabinets

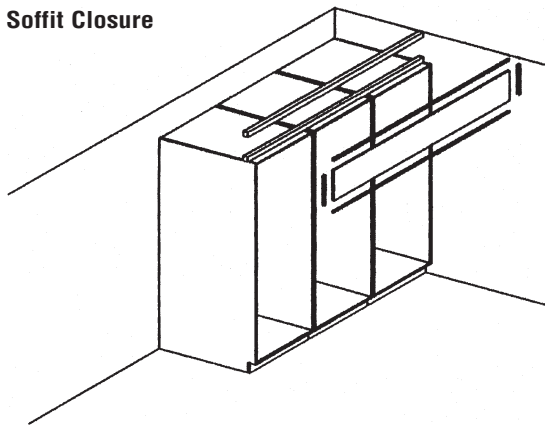
Side Closure



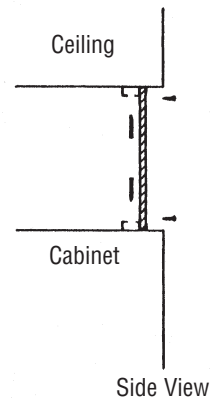
Attachment Detail



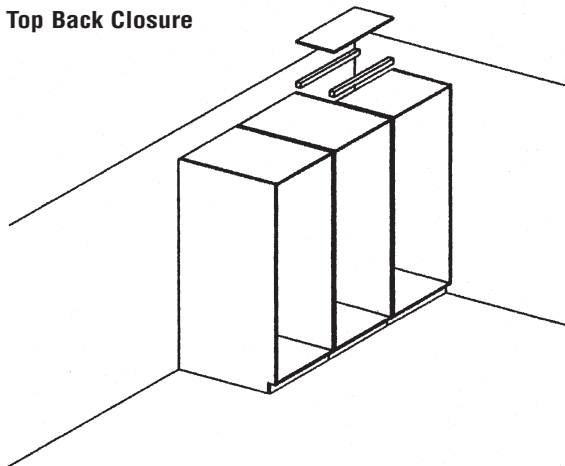
Soffit Closure



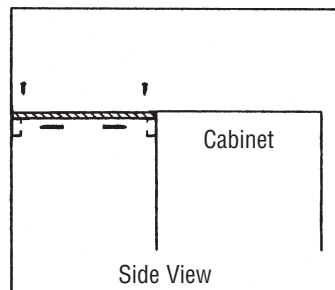
Attachment Detail



Top Back Closure



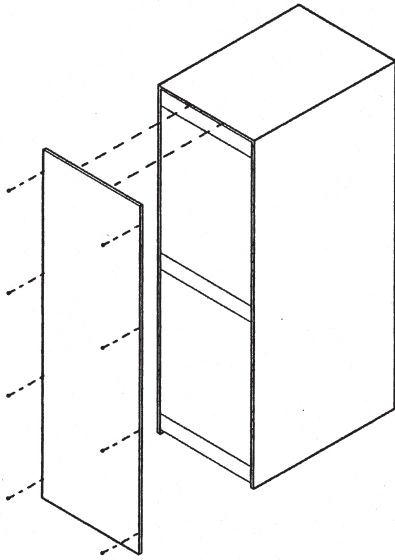
Attachment Detail



Instrument Storage

Cabinet Accesories

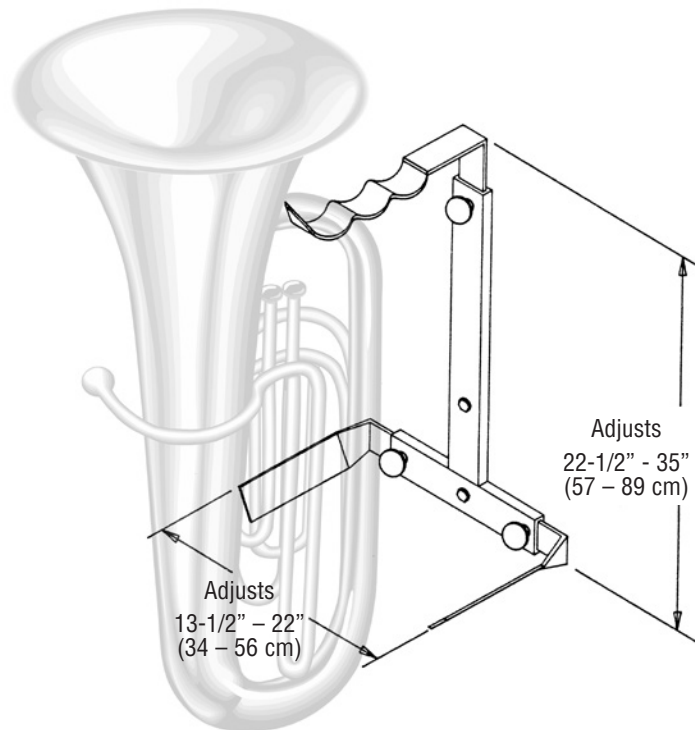
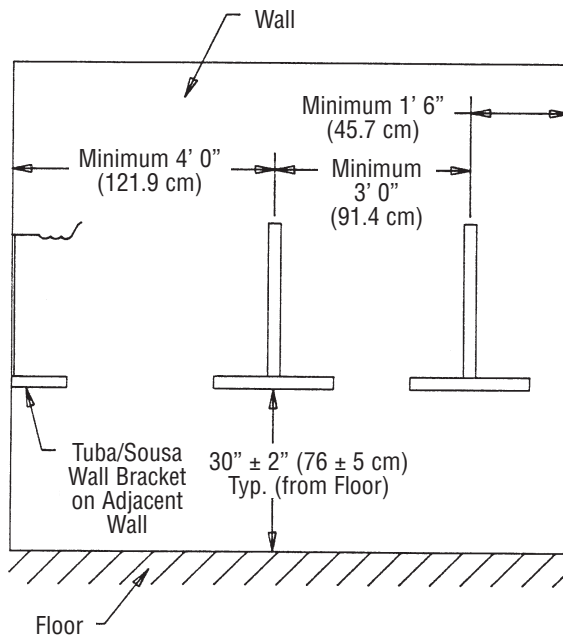
Finished Exterior Back Panel



Notes:

1. For installations that require an exposed exterior back to the cabinet, finished back panels securely attach to cabinets. The finished exterior back panel is 3/4" (1.9 cm) thick and is available for all standard cabinet widths in 48" (122 cm) or less.
2. The panel standard color is available to match Wenger standard color options.

Tuba/Sousaphone Wall Bracket



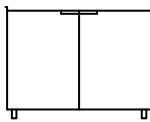
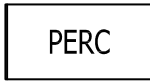
Notes:

1. When mounting Tuba/Sousa wall bracket on adjacent walls, a minimum distance of 4' (122 cm) from end of wall is required.
2. When mounting Tuba/Sousa wall bracket from end of wall, a minimum distance of 1' 6" (46 cm) is required.
3. Tuba/Sousa wall bracket should be placed 28" to 32" (71 cm to 81 cm) off floor.
4. Does not fit Miraphone Tubas, Baritone Horns or Rotary Valve Tubas.
5. 1" x 12" x 24" (2.5 x 30.5 x 61 cm) board required to mount to sheet rock walls.
6. Assembly required.
7. The upper bracket fits through the tubing on the upper part of the Tuba. Rotary Valve Tubas or Tubas constructed without any space for the bracket to fit through, will not fit with this bracket.

Instrument Storage

Portable Storage Symbols

Symbols are available upon request. Contact Wenger for more information.



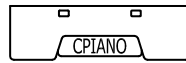
PERC

Percussion Workstation
24-1/2" w x 48-1/8" d x 35-3/4" h
(62 x 122 x 91 cm)



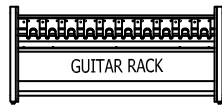
PIANO WD

Piano Work Desk
59-1/2" w x 10" d
(150 x 25 cm)

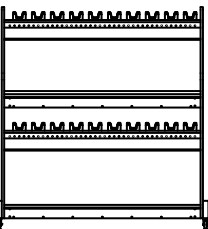


CPIANO

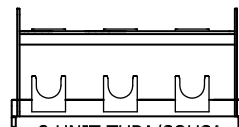
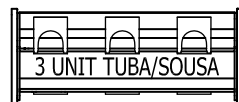
Class Piano Workstation
60" w x 18" d x 5" h
(152 x 46 x 13 cm)



GUITAR RACK

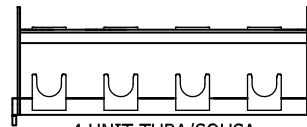
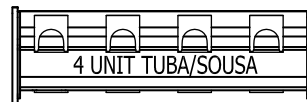


Guitar Rack
65-3/4" w x 29-1/2" d x 72" h
(167 x 75 x 183 cm)



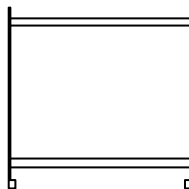
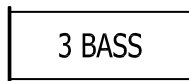
3 UNIT TUBA/SOUSA

3-Unit Tuba/Sousaphone Rack
77-1/4" w x 32" d x 39-1/2" h
(196 x 81 x 100 cm)



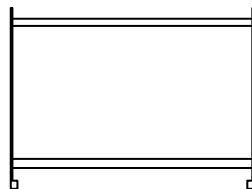
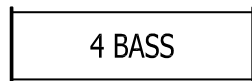
4 UNIT TUBA/SOUSA

4-Unit Tuba/Sousaphone Rack
101-1/4" w x 32" d x 39-1/2" h
(257 x 81 x 100 cm)



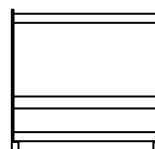
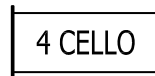
3 BASS

3-Unit String Bass Rack
61" w x 26" d x 60-1/2" h
(155 x 66 x 154 cm)



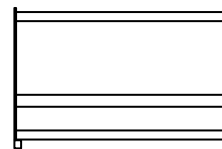
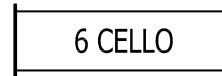
4 BASS

4-Unit String Bass Rack
80-5/8" w x 26" d x 60-1/2" h
(205 x 66 x 154 cm)



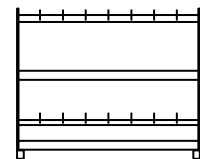
4 CELLO

4-Unit Cello Rack
49-3/8" w x 24" d x 47" h
(125 x 61 x 119 cm)



6 CELLO

6-Unit Cello Rack
73-1/8" w x 24" d x 47" h
(186 x 61 x 119 cm)



V-V RACK

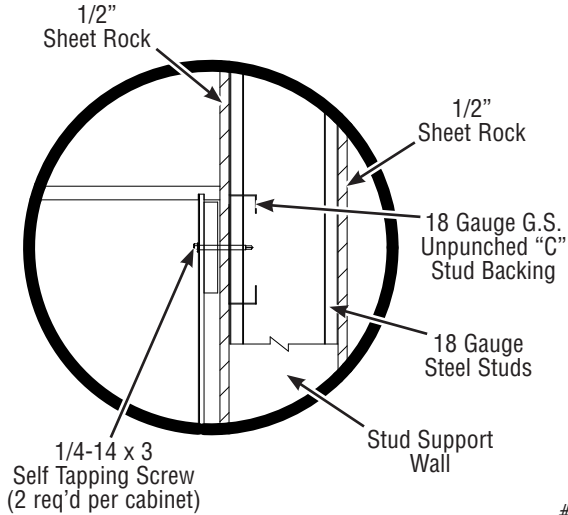
Violin/ Viola Rack
61" w x 33" d x 50-1/4" h
(155 x 84 x 128 cm)

Instrument Storage

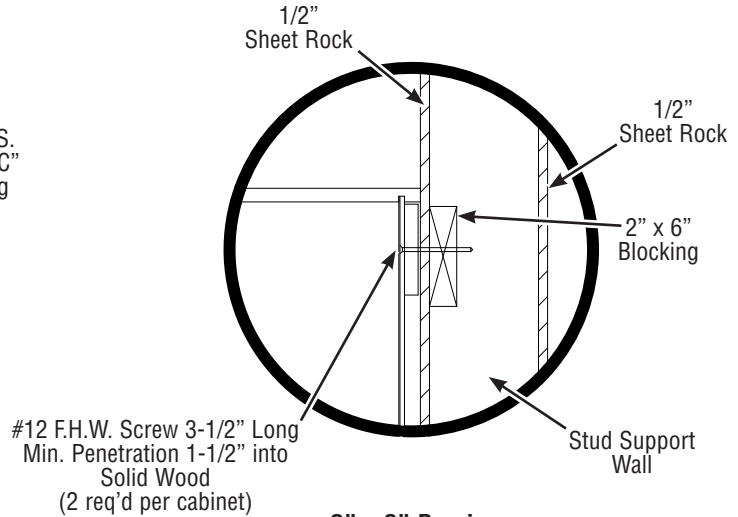
Application Information

Seismic Applications

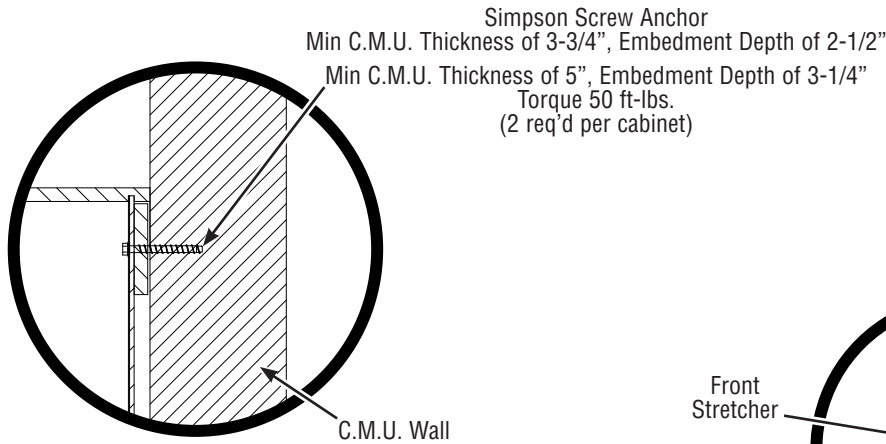
UltraStor™



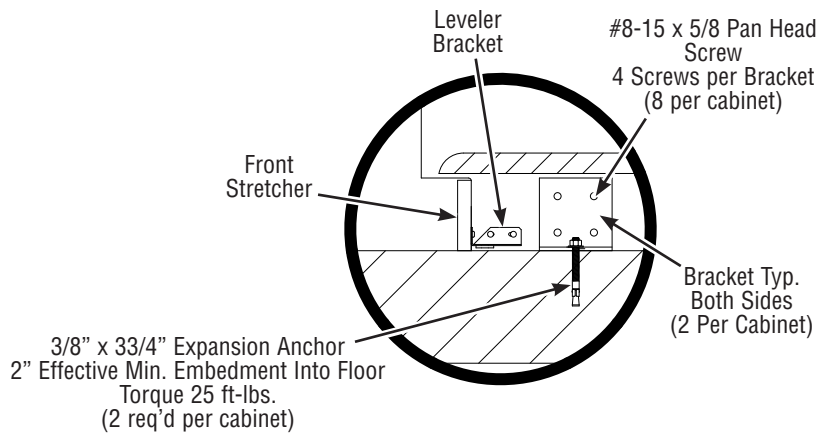
Metal Stud Bracing



2" x 6" Bracing



**Wall Anchor
C.M.U. Bracing**

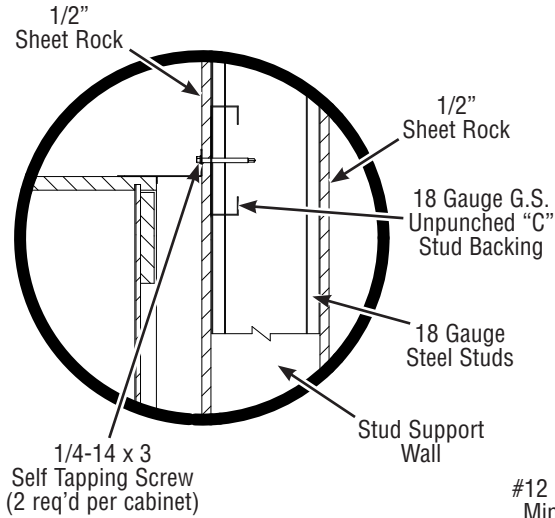


Floor Anchor

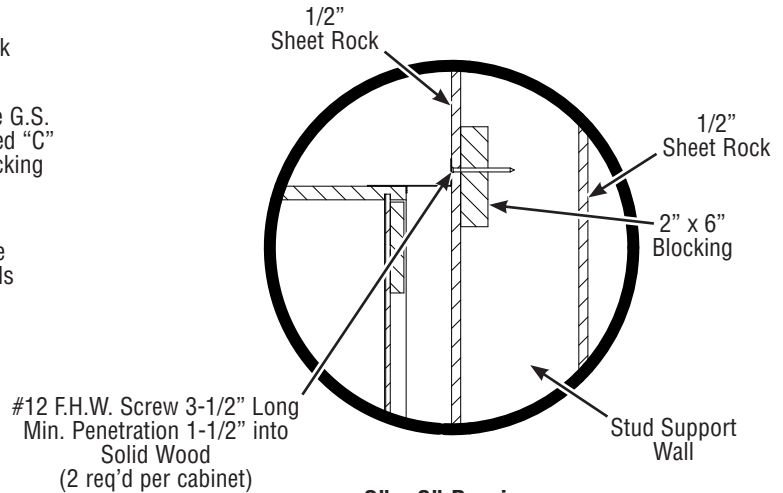
Instrument Storage

Application Information

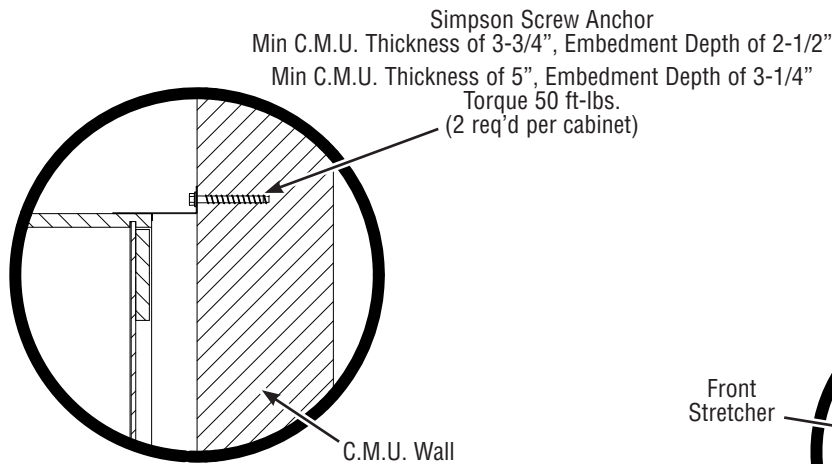
Seismic Applications AcustiCabinets™



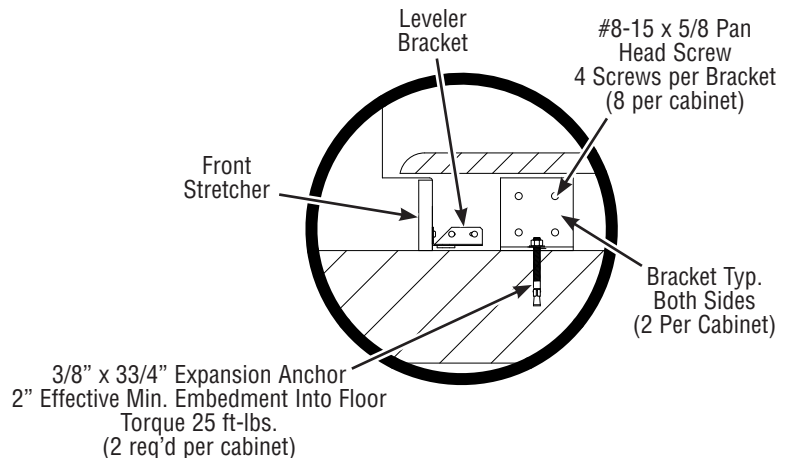
Metal Stud Bracing



2" x 6" Bracing



**Wall Anchor
C.M.U. Bracing**



Floor Anchor

Instrument Storage

Overview

GearBoss® by Wenger is a complete, state-of-the-art system designed to help with all aspects of your athletic program. From lockers, to storage, to equipment transport and fund-raising solutions, GearBoss products save you time, space, and effort. They're flexible and customizable so your system can change as your needs change. Plus, we'll work with you every step of the way to make sure you get exactly the right system—nothing more, nothing less.

GearBoss innovations are driven by these key principles:

Mobility – Haul equipment and apparel wherever you need it, without hassle.

Flexibility – Storage systems and custom lockers that adapt to your changing needs.

Organization – Keep track of your equipment and apparel easily with storage and locker rooms that get in order and stay in order.

Sanitation – Superior ventilation and anti-microbial surfaces help equipment stay clean, dry and germ-free.

Space – High-Density storage and room design services for maximizing every inch of space.

Security – Lockable doors and side panels keep apparel and equipment safe and secure.

Pride – Equipment and locker rooms that set you apart and reflect your team spirit.

Featured Components Include:

GearBoss® High-Density Storage

- X-Cart™
- Team Cart™
- SportCart™

GearBoss® II High-Density Storage

GearBoss® Shelving

GearBoss® High-Density Storage

GearBoss high-density storage carts create more room in less space – improving space efficiency by as much as 50% – by using an innovative system of tracks and rolling carts.

X-Carts are designed to move laterally on the track and stay in your equipment room.

Team Carts are portable and engineered with retractable track guides so you can move the equipment around the room or off campus. No more wasted time running back and forth to the storage room.

Every cart can be reconfigured for maximum storage.

The best solution includes a mix of X-Carts and Team Carts, and your Wenger representative will design the best solution for you. Bottom line — you'll get a flexible sports storage system engineered to meet every challenge.

Performance Requirements

- Convert traditional storage area into organized, secure high-density space.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.

Construction

- Available in two widths 32" (81 cm) and 48" (122 cm).
- Roller guides follow the track keeping the units aligned and are made of glass-filled nylon.
- Intended for indoor use in normal ambient temperature and humidity conditions — must not be exposed to prolonged outside weather conditions.
- Welded chassis made from 16-gauge, 14-gauge and 12-gauge components.
- Upright support tubes constructed from large 2" (5 cm) diameter, 16-gauge steel tubing.
- Resistant-welded heavy-duty steel wire grille end frames.
- Durable powder-coat paint finishes.
- Variety of colors available for wire grille ends.
- Heavy-duty 6" (15 cm) wheels provide easy movement.
- Roof panel constructed from solid 5/8" (1.5 cm) thermofused composite wood core with aluminum extrusions is rated for a 150 lb (67.5 kg) load.
- 32" (81 cm) wide x 78" (198 cm) long x 79" (201 cm) high.
- 48" (122 cm) wide x 78" (198 cm) long x 79" (201 cm) high.
- Five-year warranty.

Instrument Storage

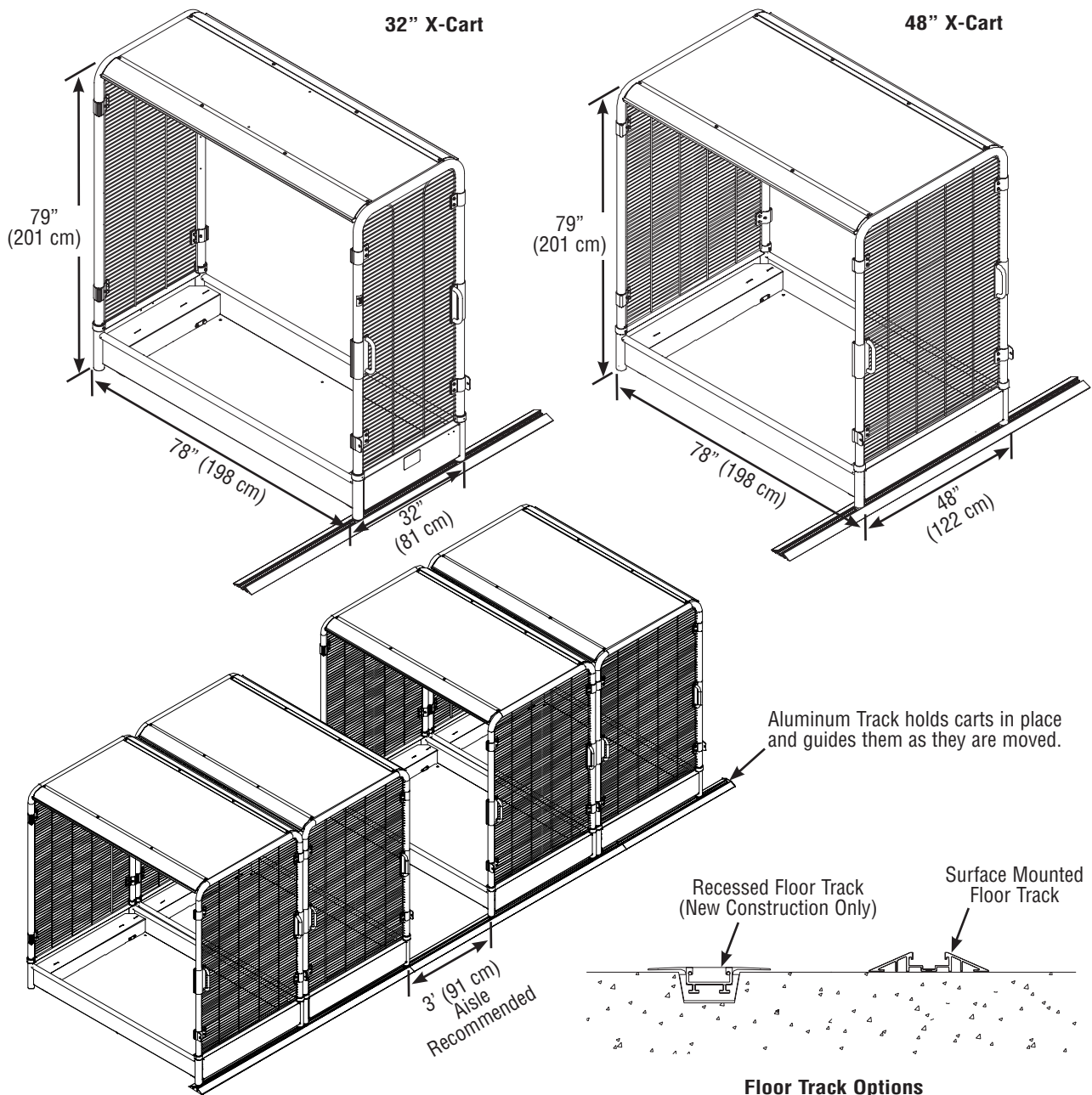
Application Information

GearBoss® X-Cart™

High density storage carts that maximize your space by sliding together and apart along a fixed aluminum track.

Transforming your equipment room into an organized, clean, professional storage space is easy with GearBoss. Our rugged X-Carts create an efficient, smart system of storage that will save space, protect your equipment, and save you loads of time spent organizing.

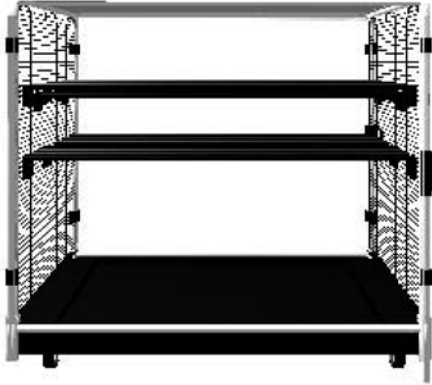
X-Carts roll laterally along a fixed aluminum track creating aisles between carts when you need to get at your equipment and closing back together when you don't. Carts can be configured with a full range of panels, doors and grilles coordinated with your team colors. You can also add accessories such as doors, hanger bars, shelves, dividers, track locks and more. Select colors from the manufacturer's standard pallet.



Instrument Storage

Application Information

GearBoss X-Carts Examples



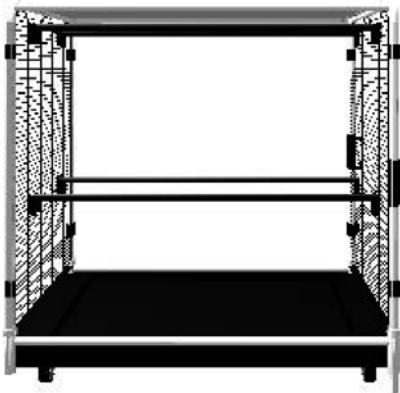
48" wide X-Cart with four 24" wide Metal Wire Shelves and two Garment Bars.

Commonly used to store uniforms
(70 hung jackets)



48" wide X-Cart with eight 24" wide Metal Wire Shelves.

Commonly used for folded garment storage
(960 - 1000 t-shirts and/or shorts)



48" wide X-Cart with four Garment Bars.

Used for hanging garments
(140 garments)

Instrument Storage

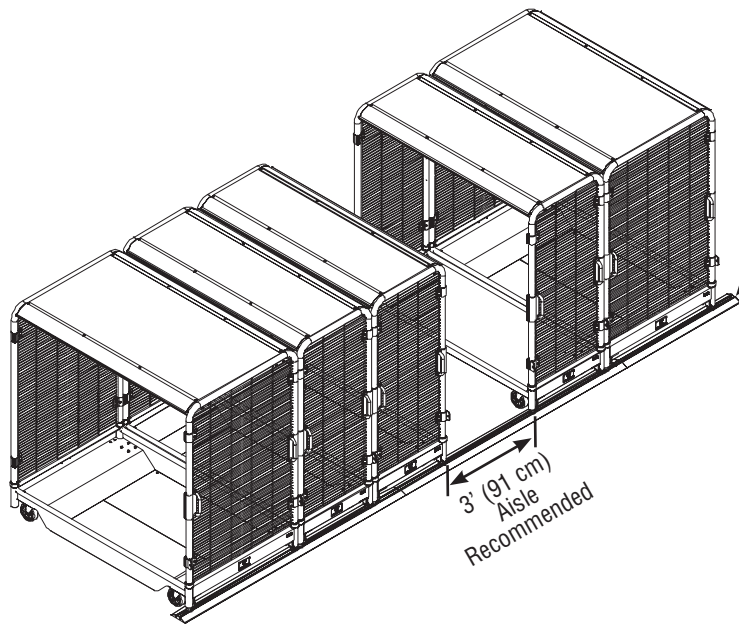
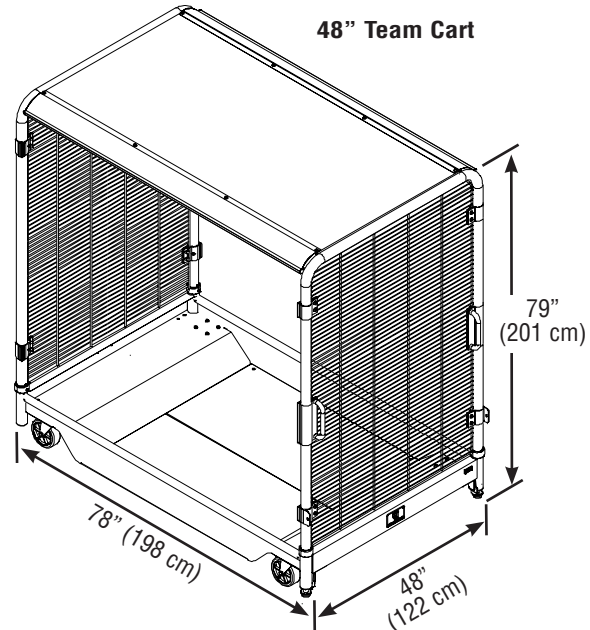
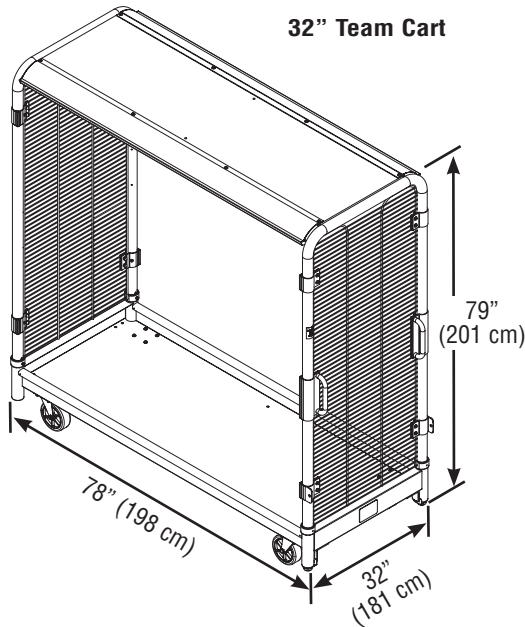
Application Information

GearBoss® Team Cart™

High density storage carts that can leave the track and transport your gear wherever you need it.

Now it's easy to get your equipment out of storage and to the gym, practice area, parking lot or sidelines – without breaking a sweat.

GearBoss Team Carts retain all the convenient storage benefits of X-Carts but are engineered to leave the track. Imagine all your gear organized on one or two high-density storage carts, traveling wherever it needs to go – and back again. Or park and lock your equipment in a temporary space, instantly creating safe, secure storage anywhere.



Aluminum Track holds carts in place and guides them as they are moved.



Instrument Storage

Application Information

GearBoss Team Cart Examples (continued)



32" wide Team Cart with two 32" wide Metal Wire Shelves and one Garment Bar.

Commonly used to store uniforms
(150 - 175 uniforms)



32" wide Team Cart with five 32" wide Metal Wire Shelves.

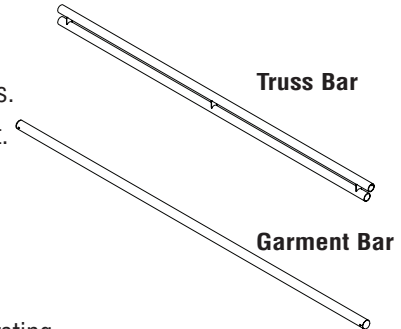
Instrument Storage

Application Information

Accessories

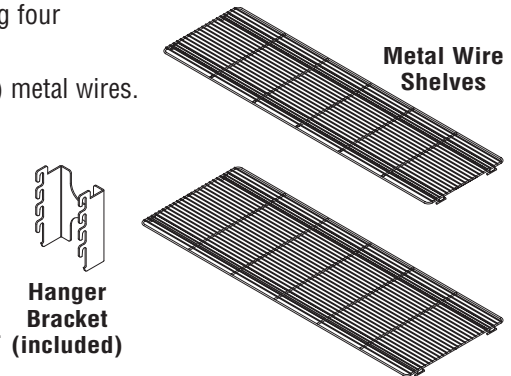
Truss Bar/Garment Bar

- Designed to be installed into the GearBoss X-Carts or Team Carts using two accessory hanger brackets.
- The Truss Bar is designed to be used with shoulder pad hangers, helmet hangers.
- The double-bar construction reduces the swinging motion of hanging equipment.
- The Garment Bar is designed to be used with standard garment hangers, support up to 175 jerseys.
- Durable powder-coat paint finish, black.
- Shipped ready to be installed, no tools required.
- Truss Bar, 1-1/2" x 4" x 751/2" long (4 x 10 x 192 cm). 200 lbs (90.7 kg) load rating.
- Garment Bar, 1-1/2" diameter x 751/2" long (4 x 192 cm). 100 lbs (45.4 kg) load rating.



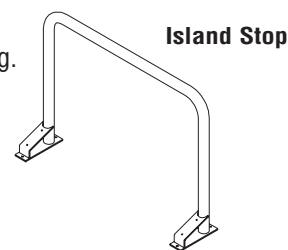
Metal Wire Shelves

- Designed to be installed into the GearBoss X-Carts or Team Carts using four accessory hanger brackets per shelf.
- Resistant welded construction of 3/16" and 5/16" (0.1875 and 0.3125) metal wires.
- Shipped ready to be installed, no tools required.
- The 24" (61 cm) wide shelf allows for shelving half of a 48" (122 cm) cart or all of the cart with two shelves.
- Wire Shelf 24" (61 cm), dimensions 21-5/8" x 74-7/8" (55 x 190 cm).
- Approximate weight, 35 lbs (15.9 kg).
- Wire Shelf, 32" (81 cm), dimensions 27-5/8" x 74-7/8" (70 x 109 cm).
- Approximate weight, 40 lbs (18.1 kg).
- Rated for 150 lbs (68 kg) evenly distributed.



Island Stop

- Designed to be permanently installed as an end stop for the GearBoss Carts.
- Welded frame constructed of durable 2" (5 cm) diameter x 16 gauge steel tubing.
- Durable powder-coat paint finish, black
- Dimensions are 9-5/8" wide x 42-3/4" long x 30-1/2" tall (24 x 109 x 77 cm).
- Approximate weight: 24 lbs (10.9 kg).
- Shipped fully assembled.



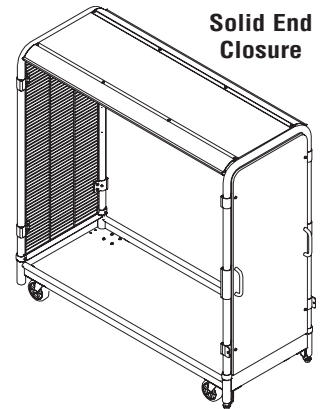
Instrument Storage

Application Information

Accessories (continued)

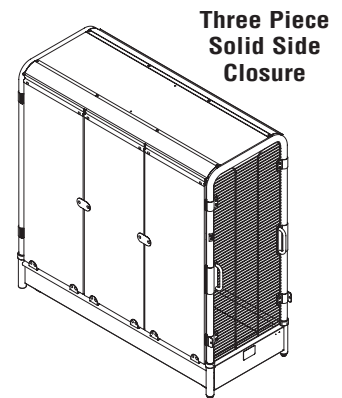
Solid End Closure

- Made from solid 5/8" wood composite with polyester laminate finish and black heavy-duty PVC edge banding.
- Can be ordered in a variety laminate colors.
- Provides an excellent space for team logos.
- Adds a level of security to carts.
- Cart End Closure, 32" (81 cm)
- Dimensions: 27-1/4" x 64-5/16" (96 x 163 cm) Approximate Weight: 25 lbs (11.3 kg).
- Cart End Closure, 48" (122 cm)
- Dimensions: 43-1/4" x 64-5/16" (110 x 163 cm) Approximate Weight: 48 lbs (21.8 kg).



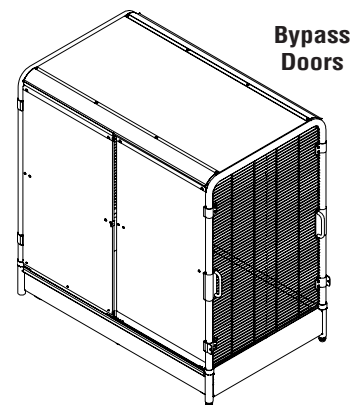
Three Piece Solid Side Closure Accessory

- Made from solid 5/8" wood composite with polyester laminate finish and black heavy-duty PVC edge banding.
- Can be ordered in a variety laminate colors.
- Securely closes one side of cart opposite open side or opposite a bypass door adding a level of security to carts.
- Shipped ready-to-assemble.
- Dimensions: 65" x 73" (165 x 185 cm).
- Approximate Weight: 75 lbs (34 kg).



Bypass Doors Accessory

- Made from solid 5/8" wood composite with polyester laminate finish and black heavy-duty PVC edge banding.
- Can be ordered in a variety laminate colors.
- Easy glide aluminum track provides convenient access.
- Sliding doors lockable with padlock (not supplied) for added security.
- Shipped ready-to-assemble.
- Dimensions: 65" x 73" (165 x 185 cm).
- Approximate Weight: 86 lbs (39 kg).



Instrument Storage

Application Information

GearBoss® SportCart™

Compact GearBoss SportCarts can be used as part of a larger GearBoss installation or as a mobile, stand-alone solution.

They are designed for use in small spaces and for sports that require less storage.

Four heavy-duty, 5" swivel casters make mobility a snap. The nimble SportCart

will navigate narrow hallways, shorter door openings and most elevators.

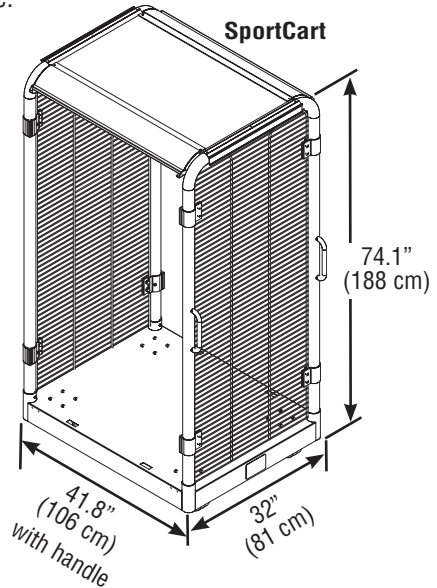
It's the small-space storage solution.

Performance Requirements

- High density storage on or off the track.
- Heavy-duty commercial-grade swivel casters for easy moving on hard surfaces such as concrete, gym floors, tile and low-pile unpadded carpet.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & Schools™ Certified.

Construction

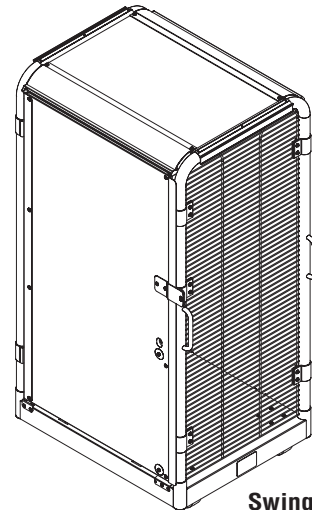
- Welded chassis made from 16-gauge, 14-gauge and 12-gauge components.
- Upright support tubes constructed from large 2" (5 cm) diameter, 16-gauge steel tubing.
- Resistant welded heavy-duty steel wire grille end frames.
- Variety of colors available for wire grille ends.
- Extra wide heavy-duty 5" (12.7 cm) swivel casters made from glass-filled nylon with polyurethane non-marring outer roller guides.
- Roof panel is solid 5/8" (1.5 cm) thermofused composite wood core with aluminum extrusions is rated for a 150 lb (67.5 kg) load.
- 32" (81 cm) wide x 41-2/3" (106 cm) long x 74-1/2" (189 cm) high.
- Five-year warranty.



Accessories

Swing Door & Side Closure

- Swing door lockable with padlock (not supplied) for added security.
- Made from solid 5/8" wood composite with polyester laminate finish and black heavy-duty PVC edge banding.
- Can be ordered in a variety laminate colors.
- Dimensions: Swing Door 34-1/8" x 63-1/2" (87 x 161 cm).
- Side Closure 34-7/8" x 65-5/8" (89 x 167 cm).
- Approximate Weight: Swing Door 52 lbs. (24 kg).
- Side Closure 41 lbs. (19 kg).



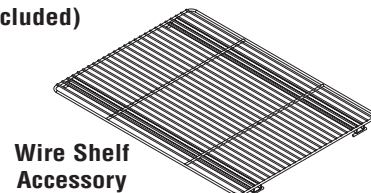
Garment Bar

- Designed to be installed using two included hanger brackets.
- Designed to be used with standard garment hangers and supports up to 80 jerseys.
- Durable black powder-coat paint finish.
- Dimensions: 37-1/2" (95 cm) x 1-1/2" OD".
- Rated for 100 lbs. (45 kg) weight evenly distributed.



Metal Wire Shelves

- Designed to be installed using four included hanger brackets per shelf.
- Resistant welded construction of 3/16" and 5/16" (0.1875" and 0.3125") metal wires.
- Rated for 150 lbs. (68 kg) evenly distributed.
- Dimensions: 27-5/8" x 37" (70 x 94 cm).
- Approximate Weight: 20 lbs. (9 kg).



Instrument Storage

Application Information

Sport Cart examples



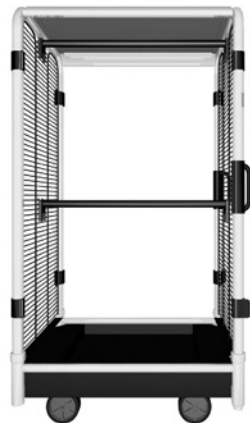
SportCart with three Metal Wire Shelves.

Commonly used for folded garments
(160 - 200 folded t-shirts and/or shorts)



SportCart with two Metal Wire Shelves and one Garment Bar.

Commonly used for uniforms
(80 uniforms: 80 folded pants/shorts)



SportCart with two Garment Bars.

Commonly used for uniforms
(160 hung jackets; 1/2" spacing)

Instrument Storage

Application Information

GearBoss® Shelving

This is the affordable, flexible, durable solution for shelving storage and workspace needs.

It works great for athletic, music and marching band storage; and theatre garment and prop storage.

The cantilever design optimizes overhead space and keeps the floor free from supports for extra room.

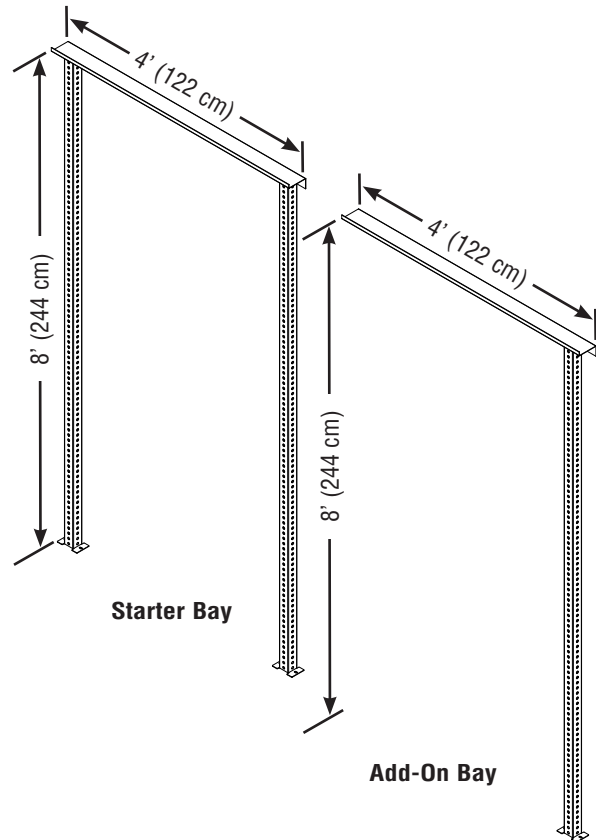
The system is so versatile it can be configured to your specific needs to make sure you get the maximum storage space.

Performance Requirements

- Cantilever design keeps the floor open for carts and flexible use.
- Holes at 1" (2.5 cm) increments provide easy adjustability.
- Shelves are adjustable by hand – no tools required.
- Each bay is load-rated at 1,000 lbs (450 kg) (if installation instructions are strictly followed).
- Spans doors and windows, if necessary.
- Easy to install and relocate.
- Uprights and mounting brackets are zinc-plated to avoid rust.

Construction

- Available in bays 4'w x 8'h (122 x 244 cm). Custom heights are available.
- Shelf supports are 14-gauge 7/8" (2.2 cm) square tube-steel with silver powder-coat paint finish.
- Aluminum shelf fronts feature a 3/8" (1 cm) lip to retain a hardboard insert or work surface option.
- Ten-year warranty.



Instrument Storage

Application Information

Accessories

Shelves, 30-1/2" and 17-1/2"

- 30-1/2" (77 cm) cantilevered shelf with 4 support tubes spaced 5-1/4" (13 cm).
- 17-1/2" (44 cm) cantilevered shelf with 2 support tubes spaced 5-1/4" (13 cm).
- Shelves can be mounted and adjusted in 1" (3 cm) increments without tools.
- Both shelves fronted with a contoured aluminum extrusion with a 3/8" (9 mm) lip to retain a hardboard insert.
- Each shelf is rated for 250 lbs (113 kg) evenly distributed, not to exceed 1,000 lbs (454 kg) per bay.
- All steel parts have a durable silver powder-coat paint finish.
- Shelf brackets are formed 12-gauge steel.
- Shelf support are 14-gauge 7/8" (22 mm) steel tubes.

Work Surface Panel

- 29-1/4" (74 cm) x 45-3/4" (116 cm) panel lays directly inside a 30-1/2" shelf.
- 1-1/8" (29 mm) graphite polyester laminated partial board with PVC edgebanding - black only.

Drawer

- Mounts to underside of a work surface panel accessory for a 30-1/2" shelf.
- 14-gauge steel construction.
- Durable black powder-coat paint finish.
- Rated for 100 lbs (45 kg) evenly distributed.

Garment Bar/Hanging Bar

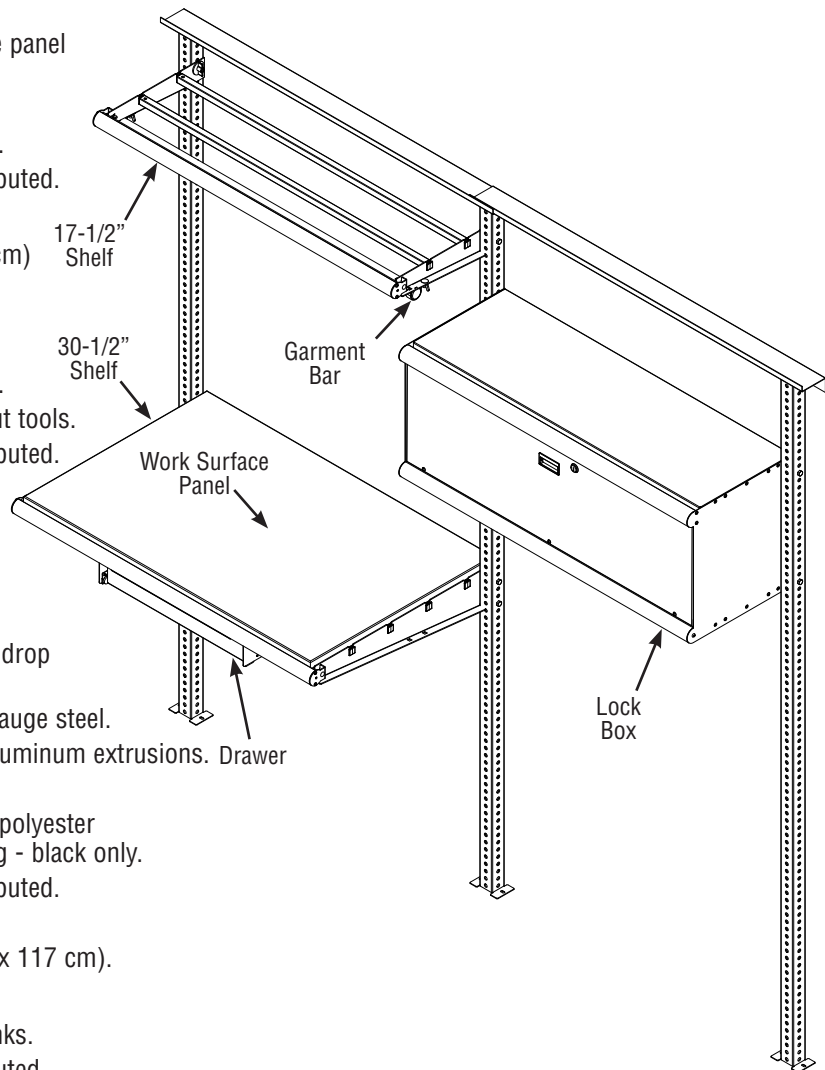
- 48" (122 cm) x 14-gauge x 1-1/2" (4 cm) round steel tube.
- All steel parts have a durable black powder-coat paint finish.
- Durable black powder-coat paint finish.
- Mounts to underside of shelves without tools.
- Rated for 100 lbs (45 kg) evenly distributed.
- Interchangeable companion products:
Football helmet hanger,
Shoulder pad hanger - long,
Shoulder pad hanger - short.

Lock Box

- Door is hinged at the bottom so it can drop and stay open for easy access.
- Sides, top and bottom panels are 16-gauge steel.
- Features upper and lower contoured aluminum extrusions. Drawer
- Laminated wood door with keyed lock.
- Door is 5/8" (16 mm) graphite pebble polyester laminated board with PVC edgebanding - black only.
- Rated for 100 lbs (45 kg) evenly distributed.
- Mounted and adjustable without tools.
- Dimensions: 16" x 18" x 46" (41 x 46 x 117 cm).

Peg Board Back

- Mounts directly onto existing shelf banks.
- Rated for 40 lbs (18 kg) evenly distributed.
- The 1/4" thick peg board material is not supplied by Wenger and must be purchased separately.

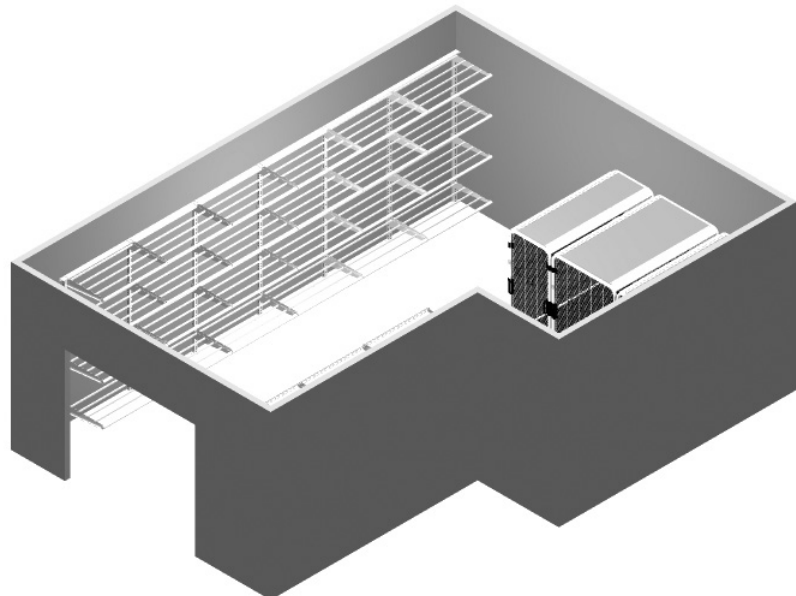
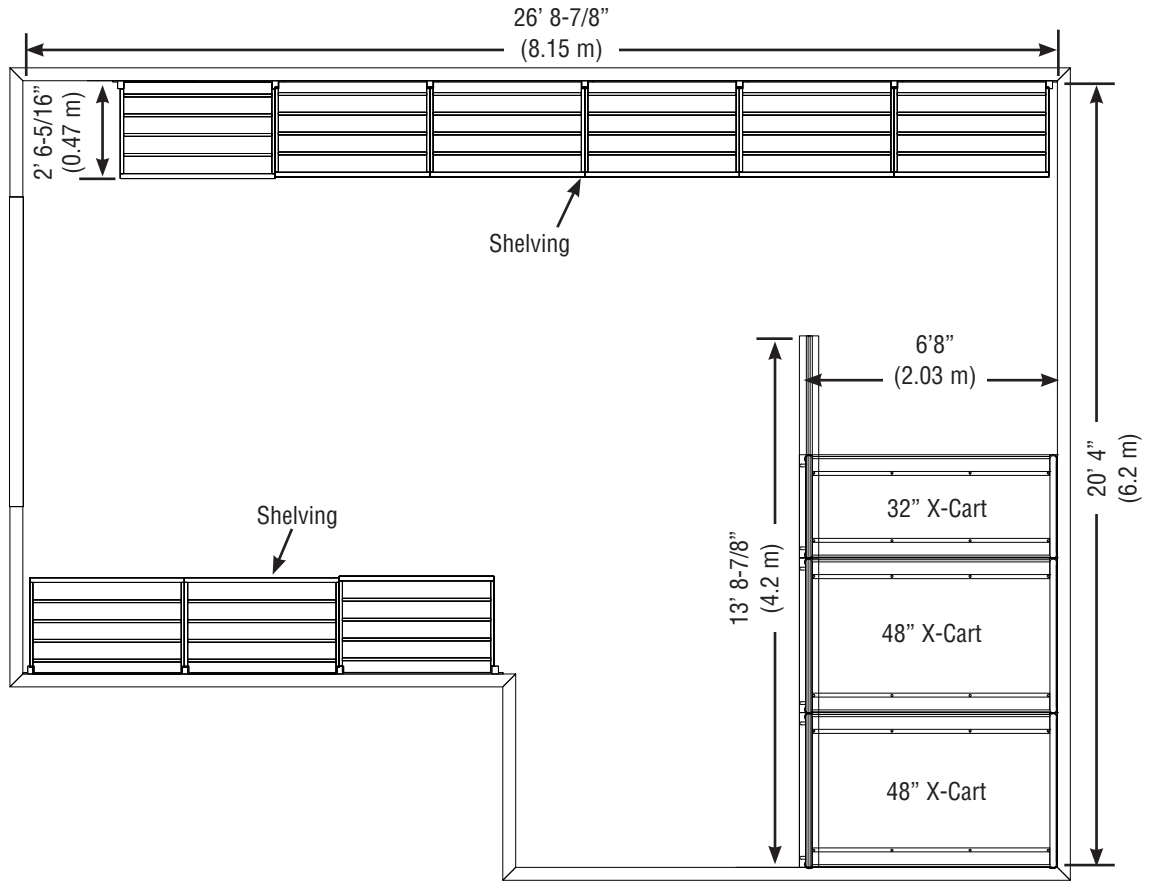


Instrument Storage

Typical Drawings

GearBoss Sample Layouts

GearBoss Carts and Shelving



Miscellaneous Information

Technical Sheets are included for:

- Small Instrument Cabinet
- Stringed Instrument Cabinet
- Percussion Workstation
- Tuba/Sousaphone Mobile Storage Rack
- Guitar Mobile Storage Rack
- Stringed Instrument Mobile Storage Racks
- OnBoard® Cargo Cart

TECHNICAL SHEET

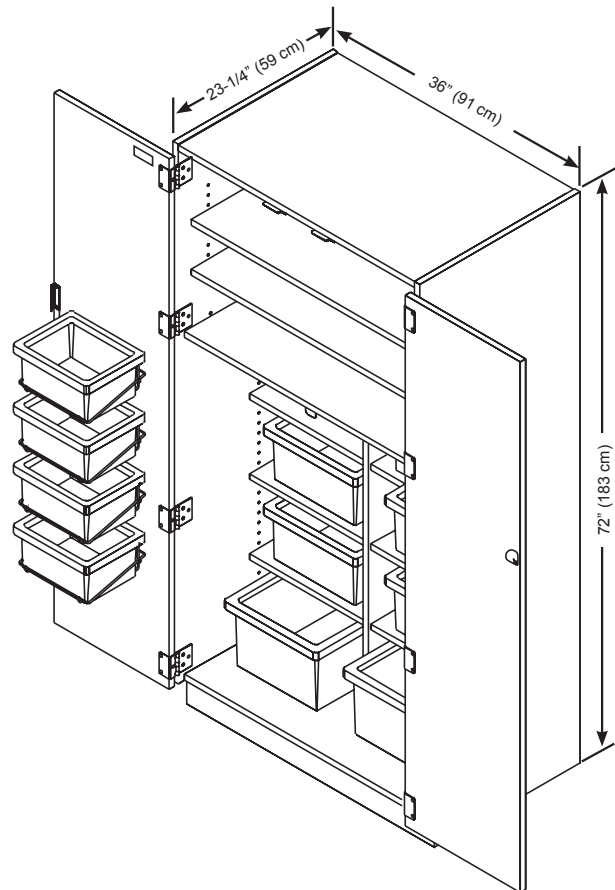
Wenger®
Your Performance Partner

Small Instrument Cabinet

- 166E001 290 lbs. (131 kg).
- Overall dimensions: 36" wide x 23-1/4" deep x 72" high (91 x 59 x 187 cm).
- Nine adjustable shelves provide flexibility in organizing various small instruments.
- Cabinet construction is 3/4" (19 mm) thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in Wenger standard colors.
- Comes with four small bins, five medium bins and two large bins with labels.
- Bins come in the primary colors of red, blue and yellow.
- Small storage bins mount on hangers to either door for easy student access.
- Edging is 1/8" (3 mm) radiused PVC.
- Thru-bolt construction on all door hardware.
- Cabinet has locking double doors.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Cabinets are shipped assembled.
- Ten-year warranty.

Accessories

- 166A061 Small Bins (yellow), set of 4 with mounting brackets.
- 166A062 Medium Bins (red), set of 5.
- 166A063 Large Bins (blue), set of 2.



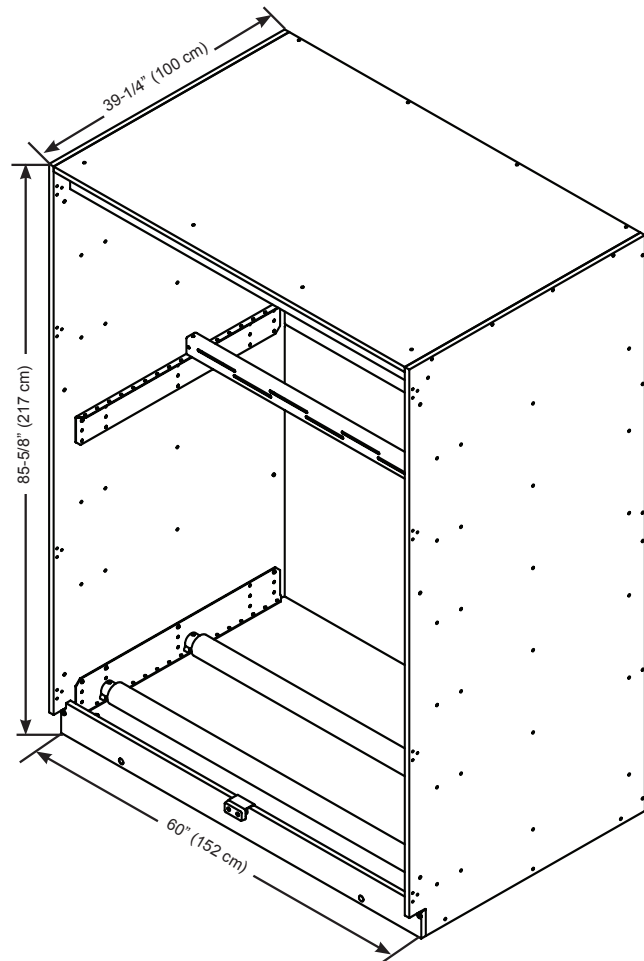
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TECHNICAL SHEET

Stringed Instrument Storage Cabinet (#42)

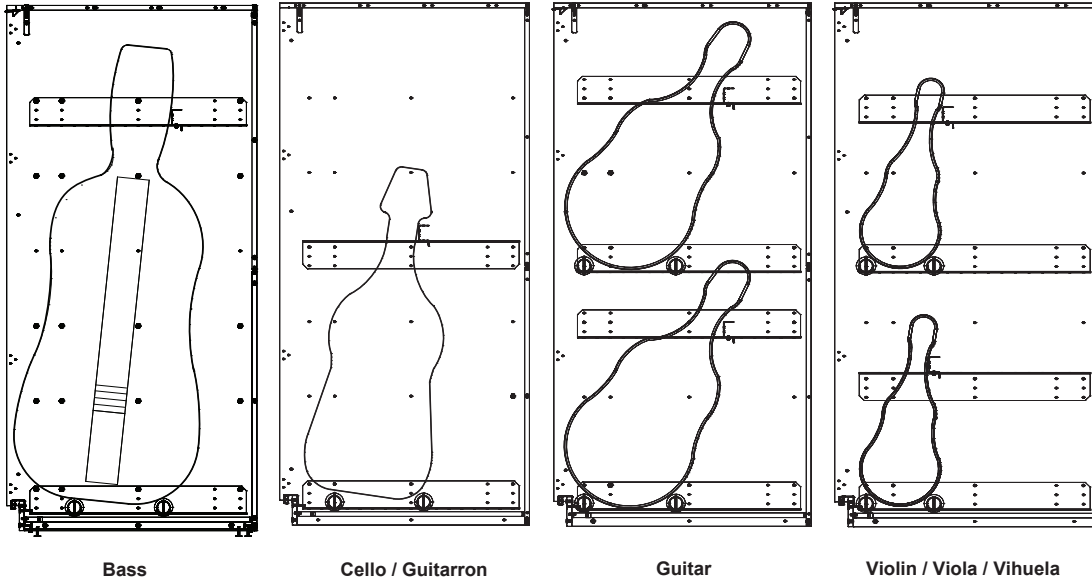
Wenger®
Your Performance Partner

- 250A942 or 255A942 (AcoustiCabinet) - 425 lbs (193 kg).
- Overall dimensions 85-5/8" height x 60" wide x 39-1/4" depth (217 x 152 x 100 cm).
- Standard configuration includes hardware for the following instrument capacities: 16-20 violins/ violas/ vihuelas, 2-3 basses, 4-5 cellos/ guitarons, or 14-18 guitars.
- Adjustable internal components to fit a variety of instrument sizes - with or without cases.
- Padded rails to protect instruments and cases.
- High-pack options available.
- Additional conversion kits are available to store a variety of instruments.
- Cabinet construction is 3/4" (19 mm) thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in Wenger standard colors.
- Optional hangers and cable lock kit available for instruments without cases.
- Edging is 1/8" (3 mm) radiused PVC.
- Available in all core substrates.
- Attractive, durable construction resists chipping and looks new years longer than other laminates.
- Bolt-through construction maintains the condition of the door and hardware year after year.
- Removable, replaceable components ensure improved service life.
- Load-tested hinges and lock assemblies stand up to institutional use.
- Choice of solid doors, straight grille doors or no doors.
- Waterfall grille doors available for an extra charge.
- Acoustic option available.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Ten-year warranty.
- Ships ready-to-assemble.

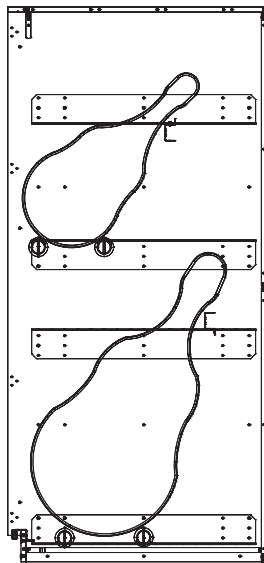


Instrument Storage

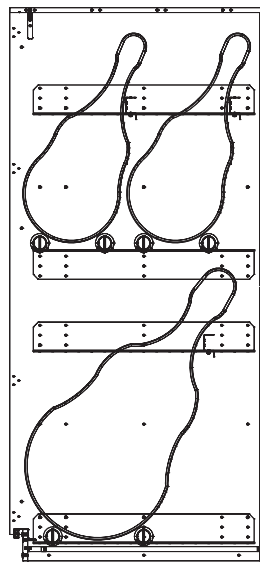
Typical Configurations



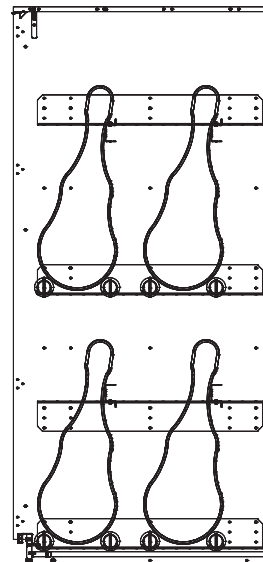
Combination
High-Pack
Options



Combination - Cello / Guitarron
& Violin / Viola / Vihuela



Cello / Guitarron &
Violin / Viola / Vihuela



Violin / Viola / Vihuela

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TECHNICAL SHEET

Wenger®

Your Performance Partner

Percussion Workstation

- Basic Percussion Workstation 147G002._ 230 lbs (104 kg).
- Deluxe Percussion Workstation with all accessories 147G001._ 251 lbs (113 kg) 230 lbs.
- Workstation is 48-1/8" wide x 24-1/2" deep x 35-3/4" high (122 x 62 x 91 cm).
- Workstation construction is 3/4" (19 mm) thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in Wenger standard colors.
- Edging is 1/8" (3 mm) radiused PVC.
- Workstation top is 3/4" (19 mm) industrial grade composite wood with industrial grade carpet on top.
- Plywood bottom is 3/4" (19 mm) with four 4" (10 cm) rubber swivel casters that make it easy to move from room to room.
- Workstation has four foam-lined 21-1/2" wide x 19-3/4" deep x 3-1/2" high (55 x 50 x 9 cm) drawers constructed of 18 gauge steel with built-in handle.
- Four 23" wide x 23" deep (58 x 58 cm) compartments, 3-1/2" (9 cm) high and 15-3/4" high (40 cm).
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Shipped assembled.
- Ten-year warranty.

Accessories

Pop-up Music Desk

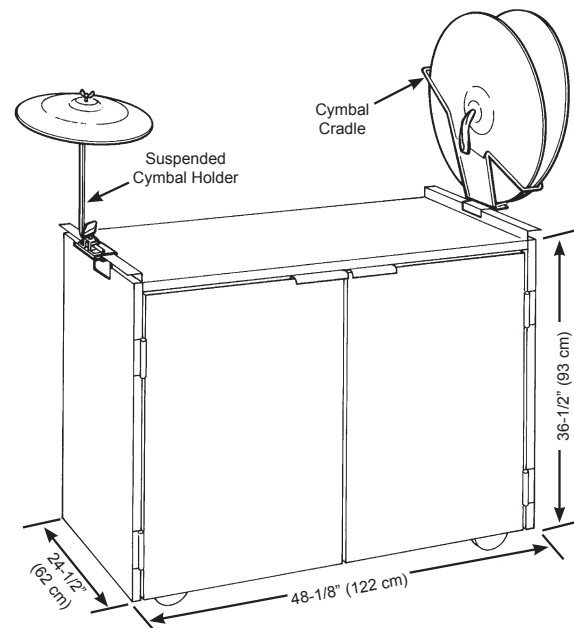
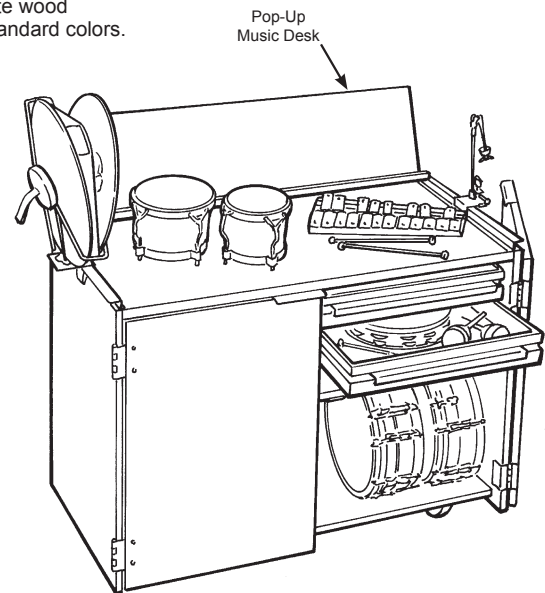
- 147H510._ 17.7 lbs. (7.7 kg).
- Holds music for three or more people.
- Desk is 46-1/8" wide x 1-7/16" deep x 10-3/4" high (117 x 4 x 27 cm).
- Desk construction is 3/4" (19 mm) thick industrial grade composite wood with polyester laminate finish in Wenger standard colors.
- Desk permanently attaches to work top and folds flat when not in use.

Suspended Cymbal Holder

- 147H014 2 lbs. (0.9 kg).
- Adjustable vinyl-coated holder clamps to cabinet edge.

Cymbal Cradle

- 147H012 7 lbs. (3 kg).
- Holds up to 22" (56 cm) cymbals in ready-to-use position.
- Vinyl-coated cradle, which protects and holds cymbals quietly, clamps to the cabinet edge.



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Tuba/Sousaphone Mobile Storage Rack

Wenger®

Your Performance Partner

- Wood parts are constructed of 3/4" (19 mm) industrial grade composite wood with no formaldehyde added.
- Polyester laminate finish in Wenger standard colors.
- Adjustable instrument cradles are constructed of padded steel weldments that can be positioned left or right to hold instruments.
- Cradles are adjustable by hand, no tools required.
- Racks are adjustable vertically and horizontally to hold a combination of different sized and shaped tubas and sousaphones.
- Racks have four swivel, hard rubber casters with two front locking, 4" (10 cm) in diameter.
- Top cross member is constructed of 14-gauge tubular steel.
- Bottom cross member supports are covered with flexible PVC to protect instruments.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Five-year warranty.
- Assembly required.

3-Unit Tuba/Sousaphone Mobile Storage Rack

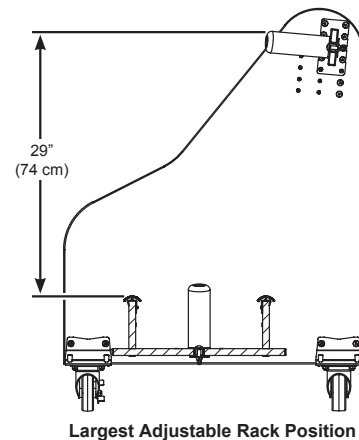
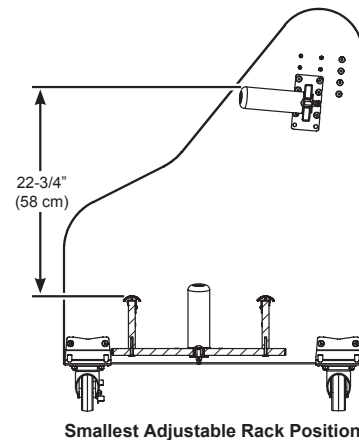
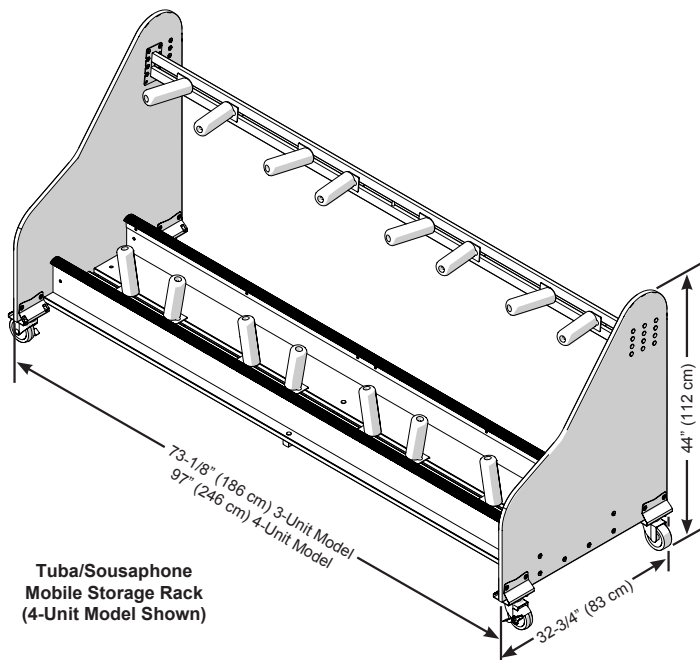
- 148J007 - 121 lbs (55 kg).
- Unit is configured to hold:
Three tubas or three sousaphones or a combination of three total tubas and sousaphones.

4-Unit Tuba/Sousaphone Mobile Storage Rack

- 148J008 - 143 lbs (65 kg).
- Unit is configured to hold:
Four tubas or four sousaphones or a combination of four total tubas and sousaphones.

Accessories

- 148J015 Accessory Cradle Kit
It may be possible to store an additional tuba when only tubas, not a combination of tubas and sousaphones are being stored.



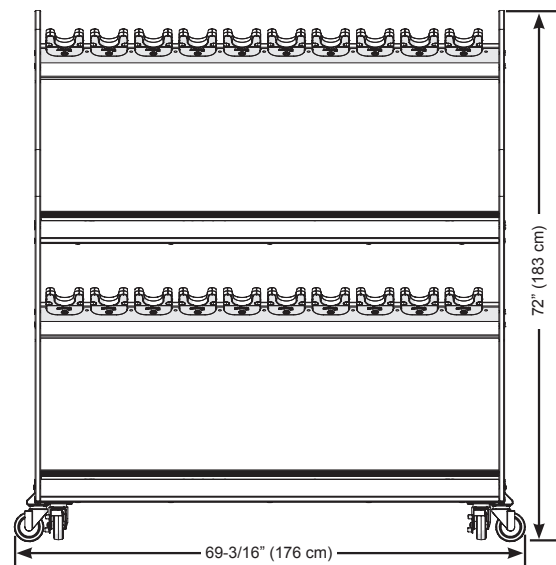
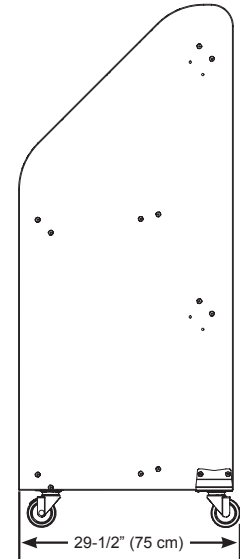
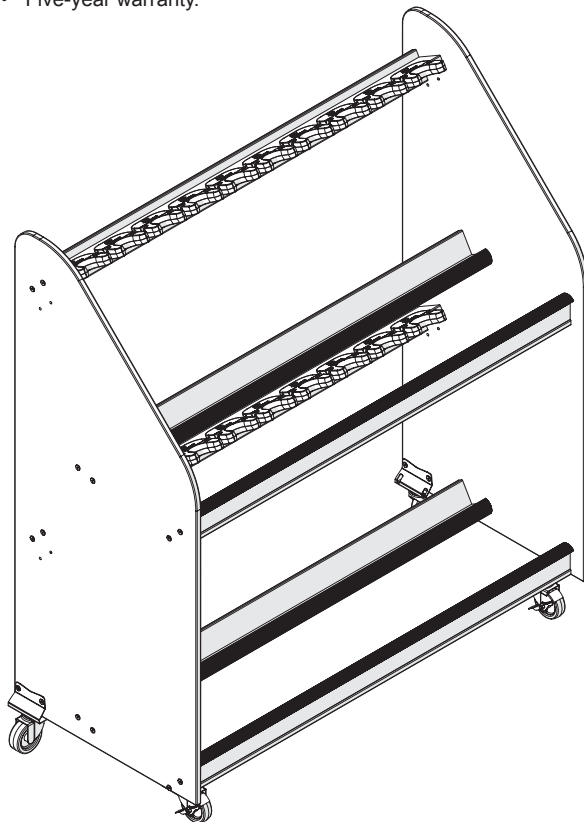
2017-01

TECHNICAL SHEET



Guitar Storage Rack

- 148J006_., Guitar Storage Rack, 147 lbs (67 kg).
- Designed to transport and store up to 20 acoustic or electric guitars.
- Stores up to 10 mariachi guitars and guitarrons.
- Can store cased and uncased guitars.
- Adjustable height upper cross supports to fit 3/4 to full size guitars.
- Adjustable yokes to accommodate various styles and are removable to accommodate cased guitar storage.
- Optional security cables help prevent instrument theft using standard padlocks with 3/8" (10 mm) maximum diameter x 1-3/8" (35 mm) wide shackle. (padlocks not included)
- Four swivel, hard rubber casters, with two front locking, 4" (10 cm) in diameter.
- Fits through 33" (84 cm) wide door opening.
- End panels are 3/4" (19 mm) thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in Wenger standard colors.
- Edging is 1/8" (3mm) radiused PVC.
- Lower cross supports are plywood core laminated panels with flexible soft PVC edging to protect instruments.
- Dimensions: 65-3/4" long x 29-1/2" deep x 72" high (167 x 75 x 183 cm).
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Assembly required.
- Five-year warranty.



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TECHNICAL SHEET

Stringed Instrument Mobile Storage Racks



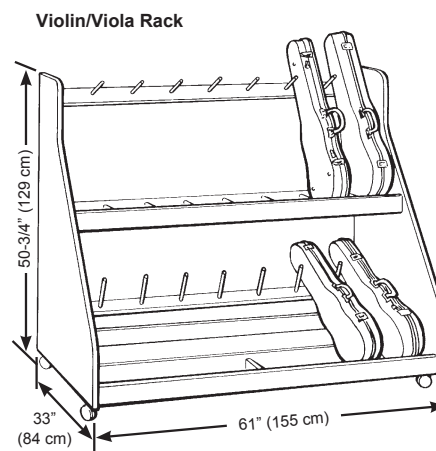
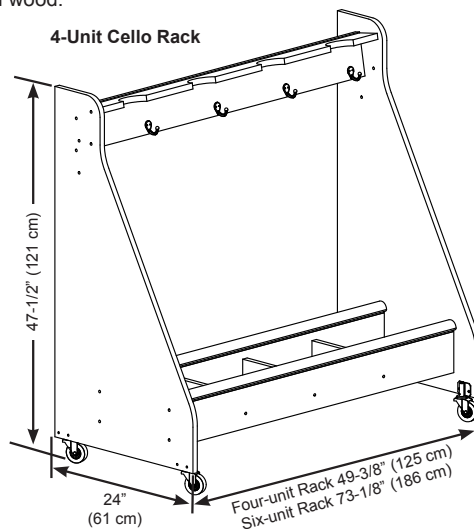
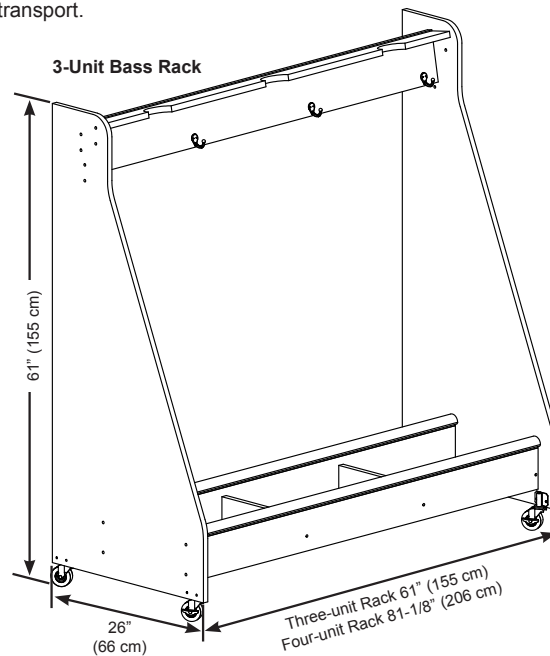
- End panels are 3/4" (19 mm) thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in Wenger standard colors.
- Edging is 1/8" (3mm) radiused PVC.
- Racks have 2-1/2" (6 cm) swivel casters in yellow zinc finish for easy transport. Front casters are locking.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Five-year warranty.
- Assembly required.

Bass and Cello Racks

- Three-unit Bass Rack: 148J003._ 73 lbs (33 kg).
- Four-unit Bass Rack: 148J004._ 83 lbs (38 kg).
- Four-unit Cello Rack: 148J001._ 55 lbs (25 kg).
- Six-unit Cello Rack: 148J002._ 66 lbs (30 kg).
- Lower cross supports are plywood core laminated panels with flexible soft PVC edging to protect instruments.
- Upper cross supports are plywood core laminated panels with PVC bonded edging to protect instruments.
- All racks include brass bow pegs.
- Holds uncased instruments 1/2 sized and up.

Violin/Viola Rack

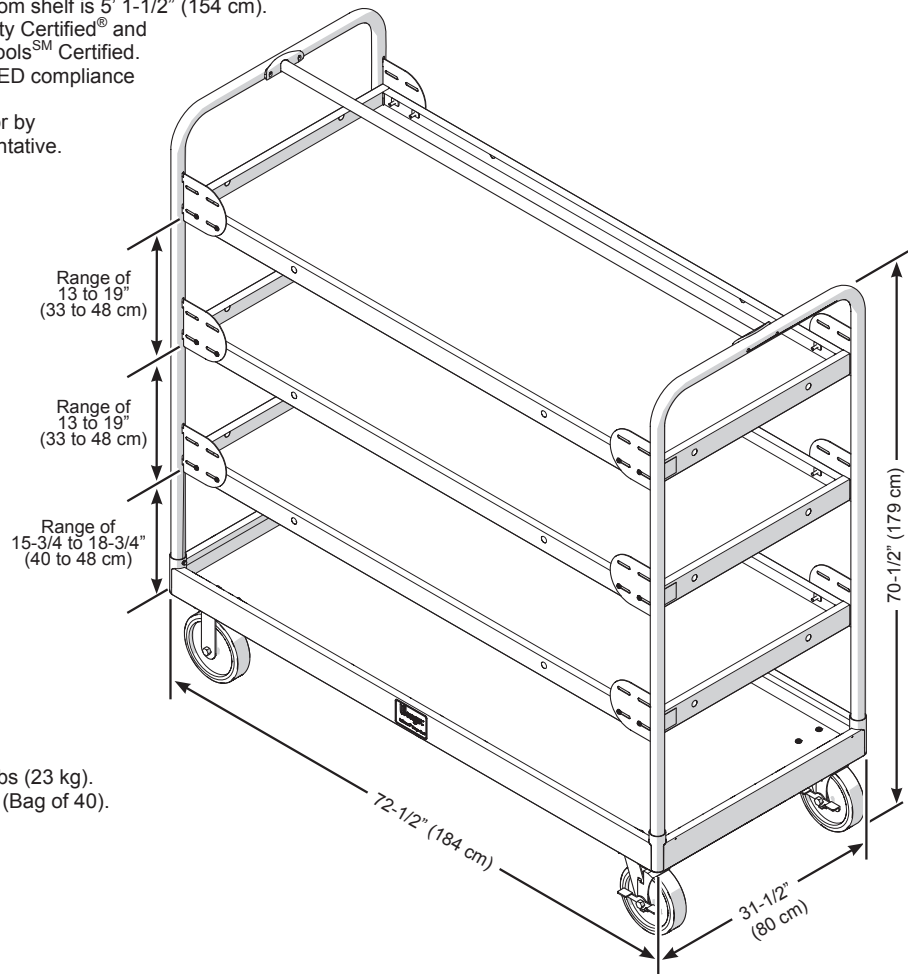
- 148J005._ 92 lbs (42 kg).
- Double-tiered rack moves and stores up to sixteen cased instruments.
- Cross supports are constructed of plywood core laminated panels with PVC bonded edging on top and bottom supports.
- Holds cased instruments 1/2 size and up.
- Spacer pegs are solid wood.



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OnBoard® Cargo Cart

- 210A003 6' (183 cm) OnBoard Cargo Cart, 130 lbs. (59 kg) with hard casters.
- 210A004 6' (183 cm) OnBoard Cargo Cart, 130 lbs. (59 kg) with pneumatic casters.
- Ideal for transporting marching band uniforms, hats, garments, and musical instruments.
- Designed to fit into trailers, semi-trailers and trucks with minimum 6' (183 cm) door height.
- Equipped with removable full-length garment bar and 40 hanger retainer clips.
- Fits through standard 3' (91 cm) door.
- Bottom shelf stores and transports hats, flags (under 6' [183 cm] in length) and instruments.
- Optional additional adjustable shelves are available (not included).
- Capacities: 35 marching band uniforms on garment bar, 21 hats on bottom shelf.
- Durable black powder-coat paint finish.
- Garment Bar constructed of 12-gauge 1-1/4" (3.2 cm) round tubing with load capacity of 150 lbs (68 kg).
- Uprights constructed of 16-gauge 1-1/4" (3.2 cm) round tubing; include slots for adding additional shelves.
- All-swivel, non-marking solid or pneumatic casters provide easy maneuverability.
- Bottom shelf is constructed of 16-gauge steel construction with black powder-coat paint finish.
- Top of garment bar to top of bottom shelf is 5' 1-1/2" (154 cm).
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Five-year warranty.
- Shipped unassembled.



Accessories

- 210A002 - Adjustable Shelf, 50 lbs (23 kg).
- 210B230 - Hanger Retainer Clip (Bag of 40).
- 210A220 - Protective Cover.

2017-01

Robe and Uniform Storage



Robe and Uniform Storage

Convenient storage with all the features that protect and maintain garments.



UltraStor™ Robe and Uniform Cabinets

These are the premier cabinets for all your garments, hats, and shoes. UltraStor™ can be configured to your needs, giving you well-ventilated storage that keeps your clothing free from wrinkles and mildew so you can wear them right off the rack. UltraStor™ also exemplifies the epitome of Wenger engineering, giving you perfectly functional day-to-day operation and years of performance that holds up to institutional use while retaining its good looks.



Rack 'N Roll® Garment Rack

This is the easy, smart way to move your bulky garments, gowns, coats, and uniforms from storage to rehearsal or performance for a fast change.

The Rack 'n Roll garment rack is heavy-duty enough to hold a full wardrobe but designed so efficiently it can easily roll through standard doorways or elevators.



OnBoard® Cargo Cart

Perfect for transport in box trucks and trailers, OnBoard Carts are built with heavy-duty casters and 12-gauge steel. Outfit with shelves, garment bar or both. The number one choice of marching bands.



GearBoss® High-Density Storage

GearBoss X-Carts™ and Team Carts™ are rugged, metal storage carts that ride on a track in your storage room or leave the track to roll down the hallway. They are highly versatile and can be secured with doors and a standard padlock.



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**WENGER
CORPORATION**

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7041 Interstate Island Road | Syracuse | NY 13209-9713

Robe and Uniform Storage

Overview

Garments are an enormous investment requiring specialized storage and Wenger offers you the best choices in the industry. Ventilation is key, keeping dust out while allowing air to circulate and moisture to dissipate before it leads to mold and mildew. Wenger's innovative features and storage design elements have long set the standard, making sure all your robes, marching band uniforms, hats, and shoes receive the kind of storage solution their value warrants.

And no matter what kind of garments you own or how many, Wenger has a wide range of solutions to fit your inventory and your budget. It's important these items have a secure, breathable space, and we look forward to finding the best solution for your specific needs.

Robe and Uniform Storage

Application Information

UltraStor™ Storage Cabinets

Our original, trusted and proven storage cabinets.

Our patented polyethylene shelves are just part of the best-built, most-reliable storage cabinets available. Heavy-duty hardware and top-quality doors further ensure reliable day-to-day operation and unparalleled durability when you buy Wenger storage cabinets.

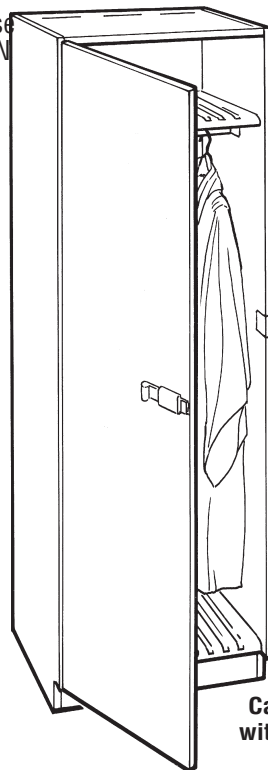
UltraStor cabinets are also designed to look great with virtually any décor. They're available in a range of sizes, colors and styles to fit a wide variety of needs. That includes different door types for different applications. Plus, UltraStor cabinets are modular so you can rearrange and even add units as needed.

Performance Requirements

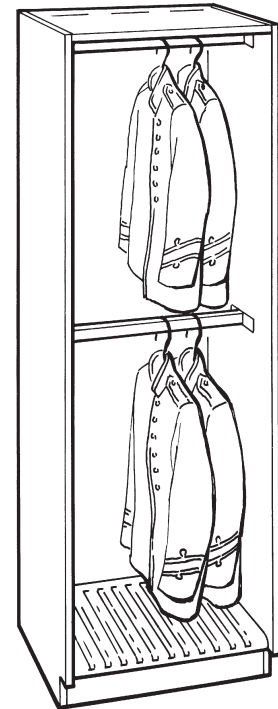
- Choice of solid doors, straight grille doors or no doors.
- Optional waterfall grille doors available.
- Polyester laminate and industrial grade composite wood core resists chipping and looks new years longer than other laminates.
- Shelves feature patented ventilation ridges and rounded front edges, improving airflow crucial to musical instrument, equipment, and garment longevity.
- Load-tested hinges and lock assemblies stand up to institutional use.
- Standard 27-1/2" (69.85 cm) wide and 21" (53.34 cm) narrow widths available.

Construction

- Wall panels are 3/4" (19 mm) thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in Wenger standard colors.
- Available with right- or left-hinged (standard) doors for easy access.
- Bolt-through construction maintains superior door and hardware condition, year after year.
- Seismic-compliant bracing available upon request as a special order.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for these products can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Available in several core substrates to meet your specific needs:
 - fire-rated, no formaldehyde added industrial grade composite wood (standard), moisture-resistant, FSC certified, and Vencore (plywood).
- Ten-year warranty.



Cabinet #32
without doors



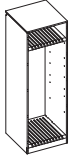
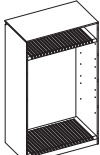
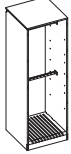
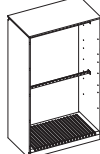
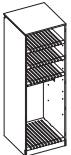
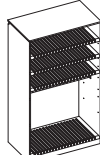
Cabinet #31
with full-length
wood door



Robe and Uniform Storage

Application Information

Cabinet Specifications - UltraStor Storage Cabinets

31		27-1/2"w x 29-1/4"d x 85-5/8"h (70 x 74 x 217 cm) Stores 11 Robes and Uniforms. Upper shelf for additional storage. Compartments: 25-1/2"w x 27-3/8"d x 11-1/4"h (65 x 70 x 29 cm) 25-1/2"w x 27-3/8"d x 65-3/8"h (65 x 70 x 166 cm)
34		48-1/2"w x 29-1/4"d x 85-5/8"h (123 x 74 x 217 cm) Stores 20 Robes and Uniforms. Upper shelf for additional storage. Compartments: 46-1/2"w x 27-3/8"d x 10-1/4"h (118 x 70 x 26 cm) 46-1/2"w x 27-3/8"d x 63-3/8"h (118 x 70 x 162 cm)
32		27-1/2"w x 29-1/4"d x 85-5/8"h (70 x 74 x 217 cm) Stores 22 Uniforms. Compartments: 25-1/2"w x 27-3/8"d x 77-7/8"h (65 x 70 x 198 cm)
35		48-1/2"w x 29-1/4"d x 85-5/8"h (123 x 74 x 217 cm) Stores 40 Uniforms. Compartments: 46-1/2"w x 27-3/8"d x 76-1/2"h (118 x 70 x 194 cm)
33		27-1/2"w x 29-1/4"d x 85-5/8"h (70 x 74 x 217 cm) Stores 11 Uniforms and 12 Hats. Compartments: 25-1/2"w x 27-3/8"d x 11-1/4"h (65 x 70 x 29 cm) 25-1/2"w x 27-3/8"d x 39-5/8"h (65 x 70 x 101 cm)
36		48-1/2"w x 29-1/4"d x 85-5/8"h (123 x 74 x 217 cm) Stores 20 Uniforms and 24 Hats. Compartments: 46-1/2"w x 27-3/8"d x 10-1/4"h (118 x 70 x 26 cm) 46-1/2"w x 27-3/8"d x 38-3/8"h (118 x 70 x 97 cm)

Using your equipment list and our exclusive software program, we'll analyze your needs and space requirements and create a storage layout using the most suitable cabinets.

Cabinets shown without doors.

Robe and Uniform Storage

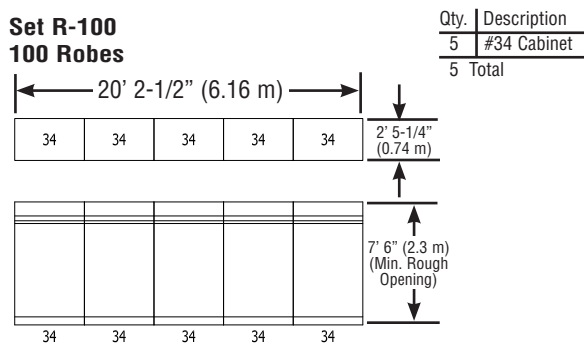
Typical Drawings

UltraStor Storage Cabinets - Suggested Robe/Uniform Sets

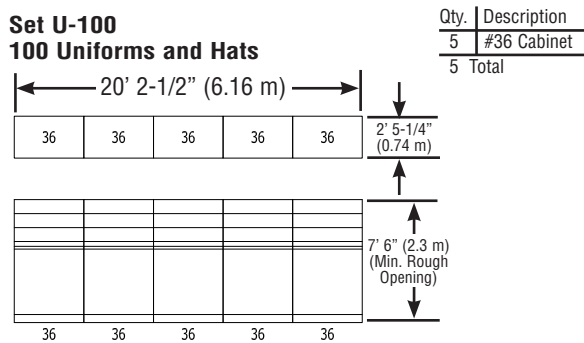
1. These drawings are not to scale.
2. Plan and Elevation Views shown in Typical Drawing section.

NOTE: Cabinet CAD and Revit symbols are available on the Music Facility Products and Instrument Storage CDRROM. Cabinets shown without doors.

Set R-100 100 Robes



Set U-100 100 Uniforms and Hats



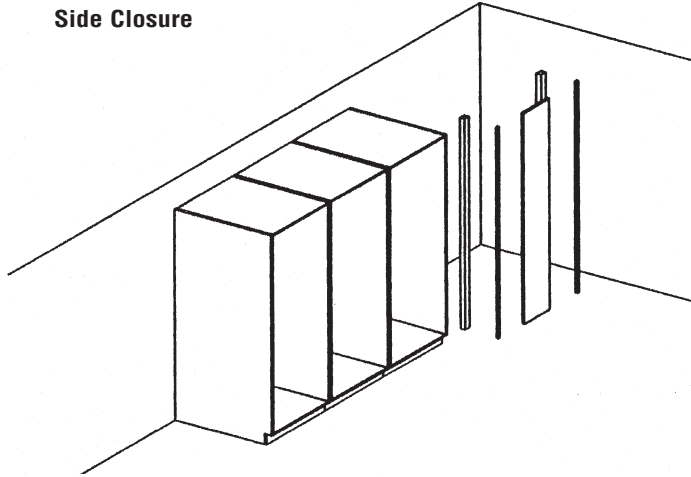
NOTES:

1. In an area where soffits are to be constructed above Wenger cabinets, a minimum rough opening height of 7' 6" (2.3 m) is required for cabinet installation.
2. Cabinets have full double door or no door option only.
2. Standard door is left-hand swing. Right-hand swing door is available.
3. Closure panels available.

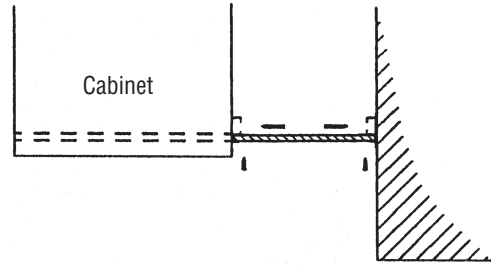
Robe and Uniform Storage

Cabinet Accessories - UltraStor Storage Cabinets

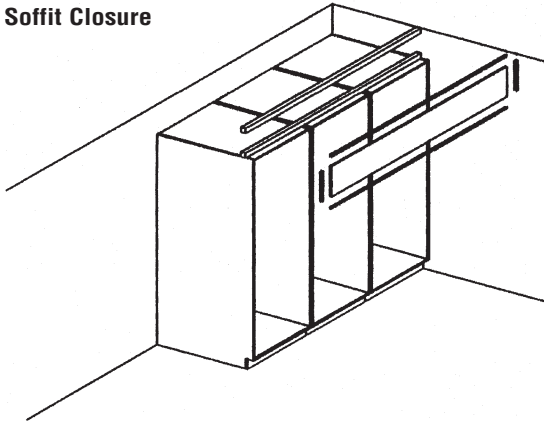
Side Closure



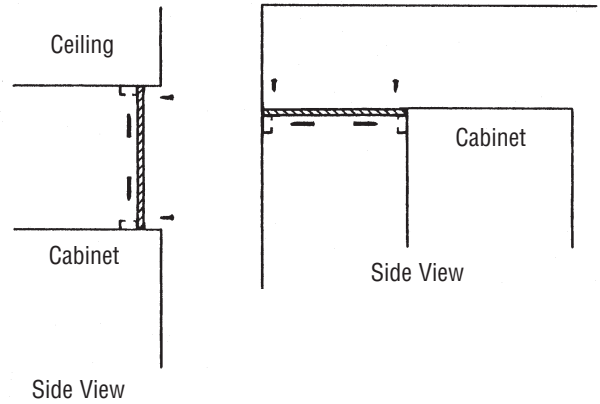
Attachment Detail



Soffit Closure



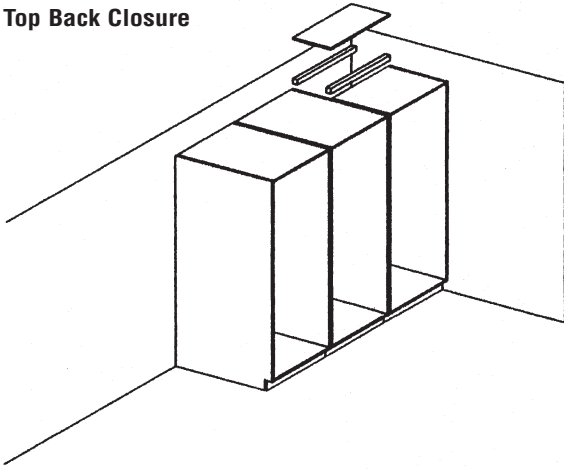
Attachment Detail



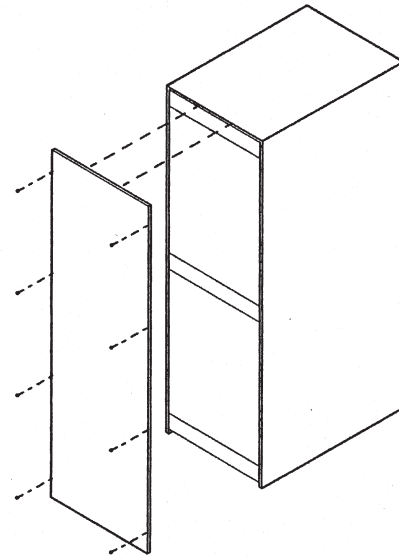
Robe and Uniform Storage

Cabinet Accessories - UltraStor Storage Cabinets

Top Back Closure



Finished Exterior Back Panel



Notes:

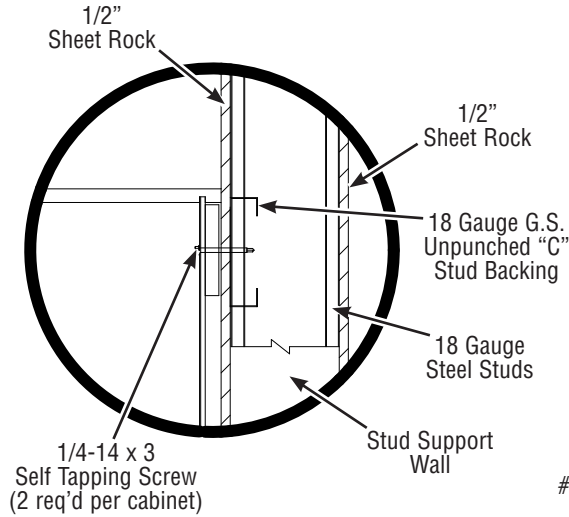
1. For installations that require an exposed exterior back to the cabinet, finished back panels securely attach to cabinets. The finished exterior back panel is 1/2" (12.7 cm) thick and is available in 14", 27" and 48" (36, 69 and 122 cm) widths.
2. The panel standard color is Oyster. Also available to match Wenger standard color options.

Robe and Uniform Storage

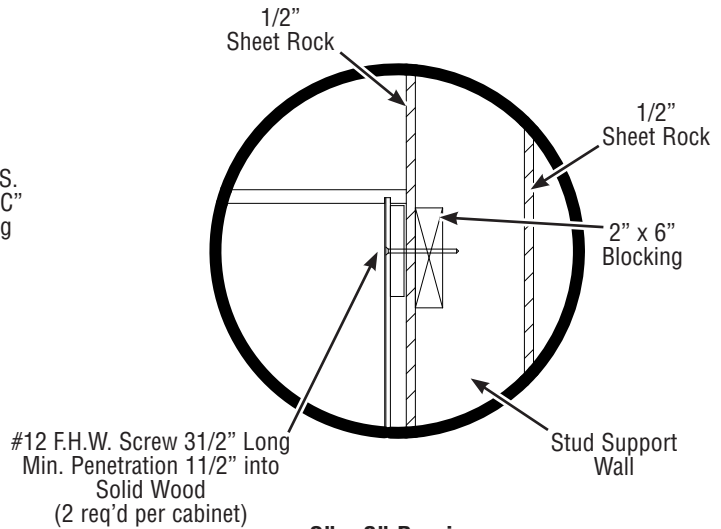
Application Information

Seismic Applications

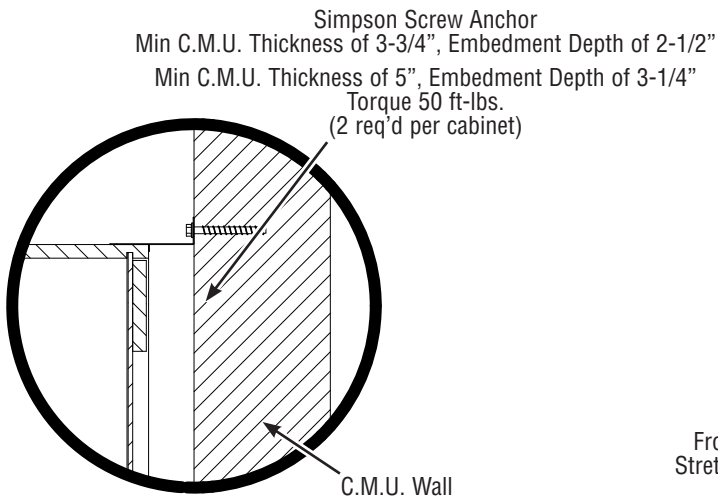
UltraStor™



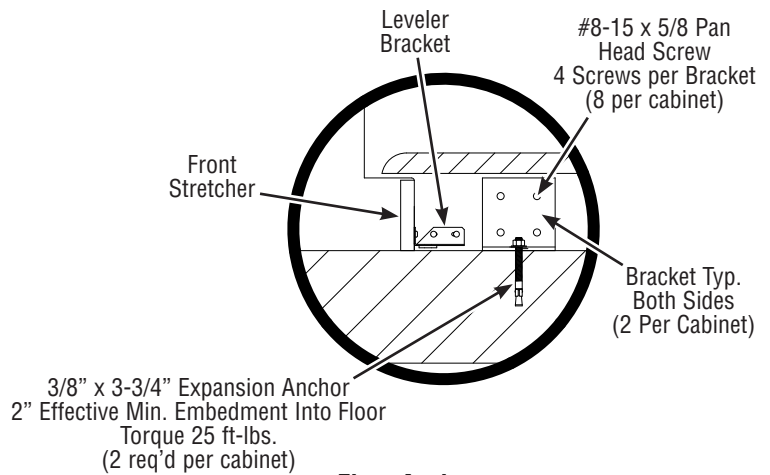
Metal Stud Bracing



2" x 6" Bracing



**Wall Anchor
C.M.U. Bracing**



Floor Anchor

Robe and Uniform Storage

Application Information

Corner Cabinet

- Basic cabinet 460 lbs (209 kg).
- Multi-purpose storage cabinet with a variety of internal storage compartment options.
- Cabinet may be placed between adjacent rows of cabinets meeting in a corner, or may stand alone.
- Wall panels are 3/4" (19 mm) thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in Wenger standard colors.
- Standard top panel is 3/4" (19 mm) thick plywood with polyester laminate finish.
- Door opening is 24" (61 cm) wide.
- Door options:
 - Full wood door - same construction as wall panels.
 - Full grille door - welded steel grille construction with powder-coat paint finish.
 - No door.
- Cabinets have five adjustable steel leveling glides for uneven floors.
- Deflector panel is constructed of high density fiberboard with oyster laminate prevents items from falling from shelves. If FSC certified is required, deflector panel is constructed of unfinished tempered hardboard.
- Ventilation holes are built-in on cabinet top panel to dissipate moisture and aid air circulation.
- Bottom and top tubular steel frame adds strength to cabinet.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN
- Ten-year warranty.

Stationary Shelf Option

- Polyethylene shelf with three tubular steel support frames.
- Dimensions: 30" deep x 46-1/2" wide (76 x 118 cm).

Garment/hangar bars

- Includes 2 steel hangar bars.
- Each bar stores up to 20 uniforms or robes spaced 2" (5 cm) apart.

Revolving Shelf

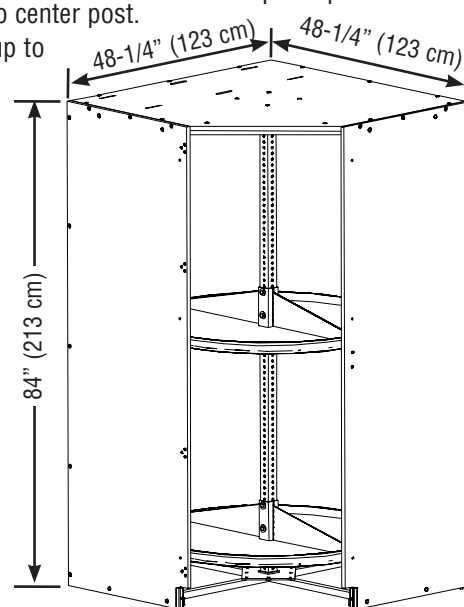
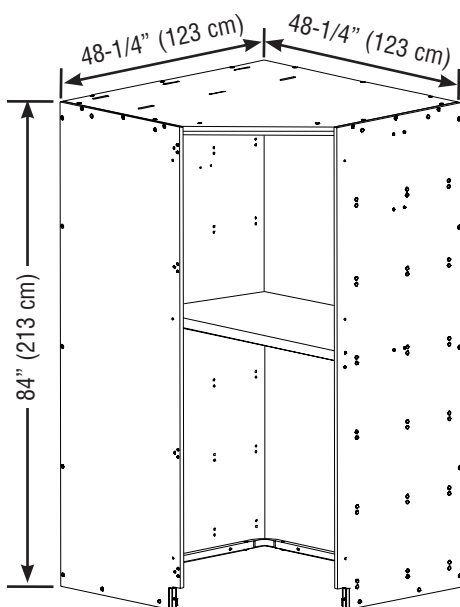
- Shelf made of 12-gauge steel in powder-coat paint finish. Attaches to revolving center post that contains adjustable holes.
- Cabinet will hold up to six 360 degree shelves.

Garment ring

- Includes 1 set of rings made of 5/8" (16 mm) diameter steel rod in powder-coat paint finish.
- Will hold up to 30 uniforms or 30 choral robes.
- Add a second set of rings to increase storage to hold up to 30 more uniforms maximum of 2 sets).

Flag storage

- Includes 1 set of garment rings.
- A 360 degree bottom shelf with carpeted pad. Attaches to center post.
- Will hold up to 200 flags.



Robe and Uniform Storage

Application Information

Wardrobe Cabinet

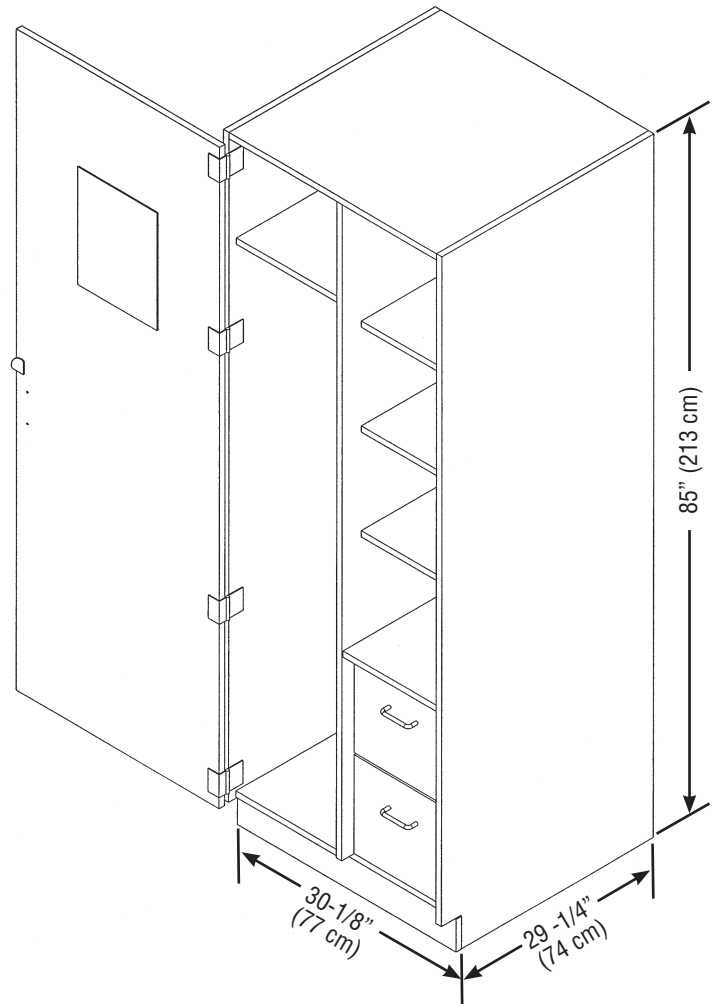
- With all you give to the program, it's time you get something just for you. There's room for your performance attire, any uniforms, personal instruments, and even a special space for your personal files and records.

Performance Requirements

- Individual secure storage.
- Three adjustable shelves for added flexibility.
- Two Pendaflex file-sized drawers for storing personal files.
- Garment compartment with hanger rod and venting holes to help dissipate moisture, mildew, and odors.
- Full, locking door with individual key.
- Mirror mounted on inside of door.

Construction

- Bolt-through construction and tamper-resistant hardware.
- Shipped fully assembled, with door attached.
- 30-1/8" w x 29-1/4" d x 84" h (76 x 74 x 213 cm).
- Wall panels are 3/4" (19 mm) thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in Wenger standard colors.
Body of cabinet matches door except for Oyster, Maple and Pebble where body finish is Oyster.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for these products can be found at www.wengercorp.com/GREEN.
- Ten-year warranty.



Robe and Uniform Storage

Application Information

GearBoss® by Wenger is a complete, state-of-the-art system designed to help with all aspects of your athletic program. From lockers, to storage, to equipment transport and fund-raising solutions, GearBoss products save you time, space, and effort. They're flexible and customizable so your system can change as your needs change. Plus, we'll work with you every step of the way to make sure you get exactly the right system—nothing more, nothing less.

GearBoss innovations are driven by these key principles:

Mobility – Haul equipment and apparel wherever you need it, without hassle.

Flexibility – Storage systems and custom lockers that adapt to your changing needs.

Organization – Keep track of your equipment and apparel easily with storage and locker rooms that get in order and stay in order.

Sanitation – Superior ventilation and anti-microbial surfaces help equipment stay clean, dry and germ-free.

Space – High-Density storage and room design services for maximizing every inch of space.

Security – Lockable doors and side panels keep apparel and equipment safe and secure.

Pride – Equipment and locker rooms that set you apart and reflect your team spirit.

Featured Components Include:

GearBoss® High-Density Storage

- X-Cart™
- Team Cart™
- SportCart™

GearBoss® II High-Density Storage

GearBoss® Shelving

GearBoss® High-Density Storage

GearBoss high-density storage carts create more room in less space – improving space efficiency by as much as 50% – by using an innovative system of tracks and rolling carts.

X-Carts are designed to move laterally on the track and stay in your equipment room.

Team Carts are portable and engineered with retractable track guides so you can move the equipment around the room or off campus. No more wasted time running back and forth to the storage room.

Every cart can be reconfigured for maximum storage.

The best solution includes a mix of X-Carts and Team Carts, and your Wenger representative will design the best solution for you. Bottom line — you'll get a flexible sports storage system engineered to meet every challenge.

Performance Requirements

- Convert traditional storage area into organized, secure high-density space.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.

Construction

- Available in two widths 32" (81 cm) and 48" (122 cm).
- Roller guides follow the track keeping the units aligned and are made of glass-filled nylon.
- Intended for indoor use in normal ambient temperature and humidity conditions — must not be exposed to prolonged outside weather conditions.
- Welded chassis made from 16-gauge, 14-gauge and 12-gauge components.
- Upright support tubes constructed from large 2" (5 cm) diameter, 16-gauge steel tubing.
- Resistant-welded heavy-duty steel wire grille end frames.
- Durable powder-coat paint finishes.
- Variety of colors available for wire grille ends.
- Heavy-duty 6" (15 cm) wheels provide easy movement.
- Roof panel constructed from solid 5/8" (1.5 cm) thermofused composite wood core with aluminum extrusions is rated for a 150 lb (67.5 kg) load.
- 32" (81 cm) wide x 78" (198 cm) long x 79" (201 cm) high.
- 48" (122 cm) wide x 78" (198 cm) long x 79" (201 cm) high.
- Five-year warranty.

Robe and Uniform Storage

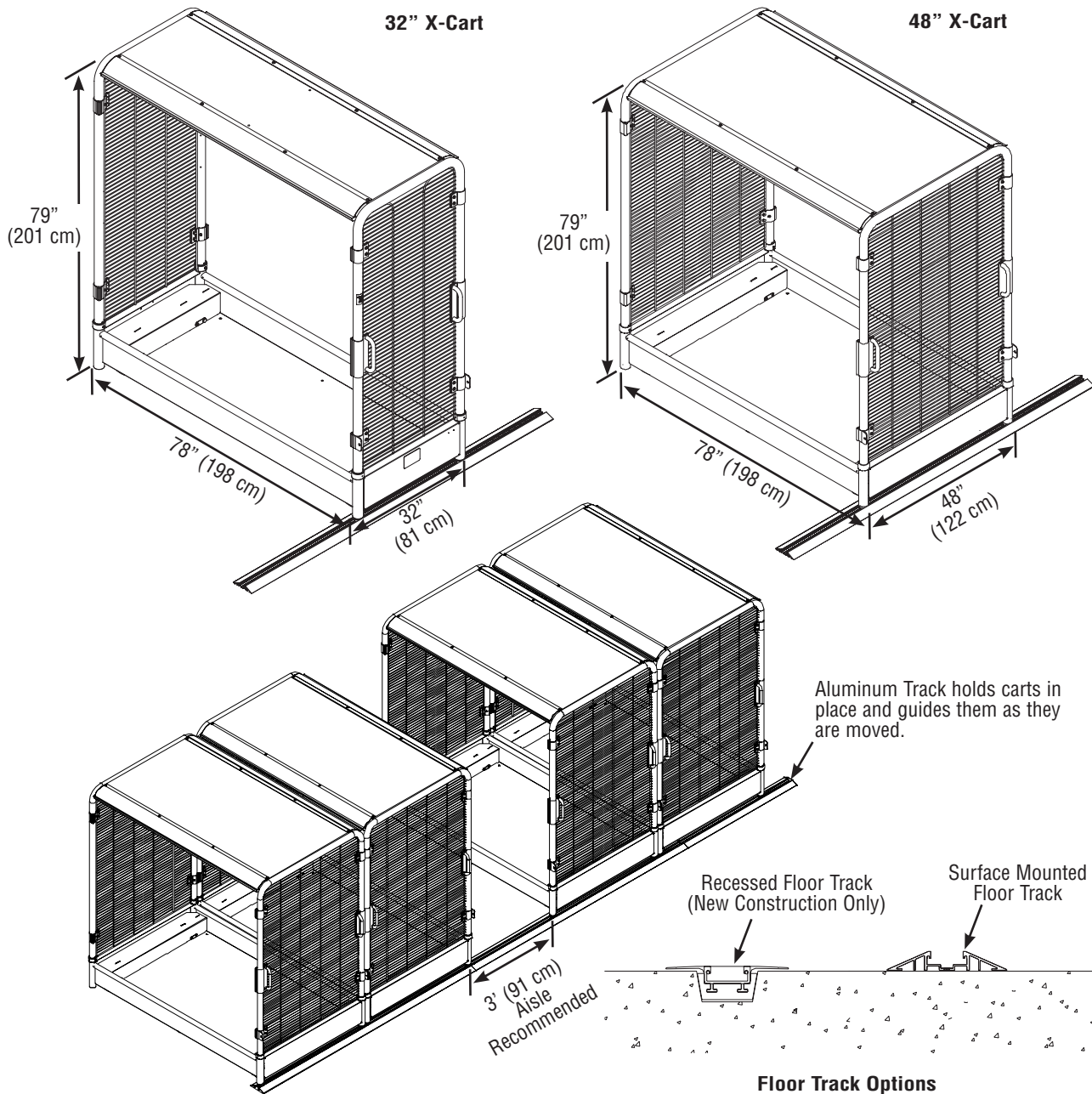
Application Information

GearBoss® X-Cart™

High density storage carts that maximize your space by sliding together and apart along a fixed aluminum track.

Transforming your equipment room into an organized, clean, professional storage space is easy with GearBoss. Our rugged X-Carts create an efficient, smart system of storage that will save space, protect your equipment, and save you loads of time spent organizing.

X-Carts roll laterally along a fixed aluminum track creating aisles between carts when you need to get at your equipment and closing back together when you don't. Carts can be configured with a full range of panels, doors and grilles coordinated with your team colors. You can also add accessories such as doors, hanger bars, shelves, dividers, track locks and more. Select colors from the manufacturer's standard pallet.



Robe and Uniform Storage

Application Information

GearBoss® X-Carts™ Examples



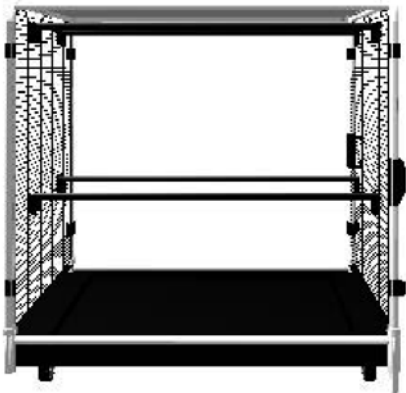
48" wide X-Cart with four 24" wide Metal Wire Shelves and two Garment Bars.

Commonly used to store uniforms
(100 - 110 uniforms 1 1/2" spacing: pants/shorts folded)



48" wide X-Cart with eight 24" wide Metal Wire Shelves.

Commonly used for folded garment storage
(960 - 1000 t-shirts and/or shorts)



48" wide X-Cart with four Garment Bars.

Used for hanging garments
(200 - 220 jackets hung 1 1/2" spacing)

Robe and Uniform Storage

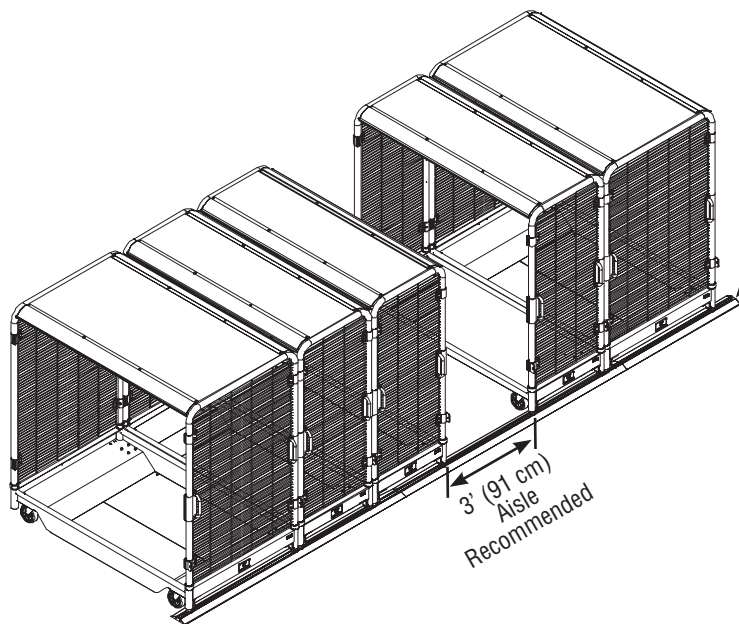
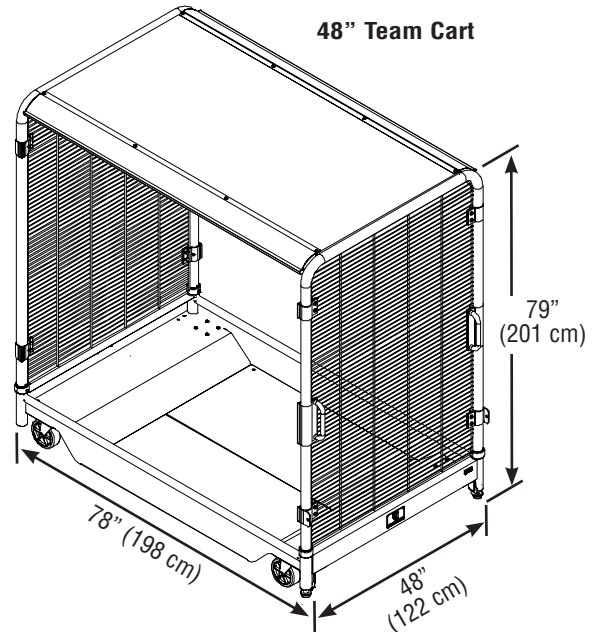
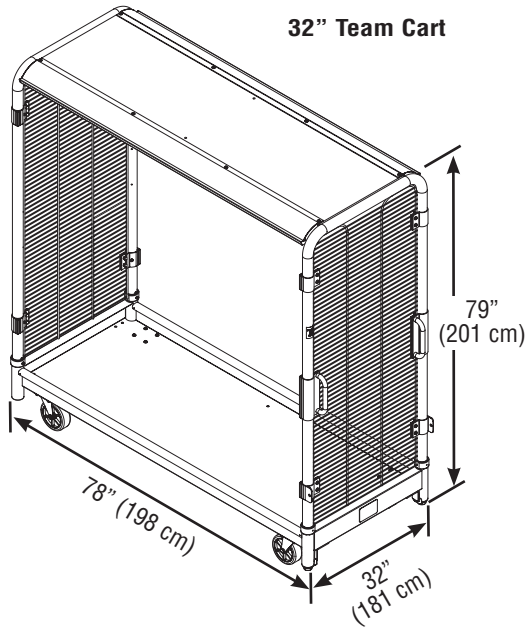
Application Information

GearBoss® Team Cart™

High density storage carts that can leave the track and transport your gear wherever you need it.

Now it's easy to get your equipment out of storage and to the gym, practice area, parking lot or sidelines – without breaking a sweat.

GearBoss Team Carts retain all the convenient storage benefits of X-Carts but are engineered to leave the track. Imagine all your gear organized on one or two high-density storage carts, traveling wherever it needs to go – and back again. Or park and lock your equipment in a temporary space, instantly creating safe, secure storage anywhere.



Aluminum Track holds carts in place and guides them as they are moved.



Robe and Uniform Storage

Application Information

GearBoss® Team Cart Examples (continued)



32" wide Team Cart with two 32" wide Metal Wire Shelves and one Garment Bar.

Commonly used to store uniforms
(50 - 55 uniforms: jackets hung; pants folded)



32" wide Team Cart with five 32" wide Metal Wire Shelves.

Commonly used to store shoes or hats
(70 shoe boxes or hat boxes on shelves)

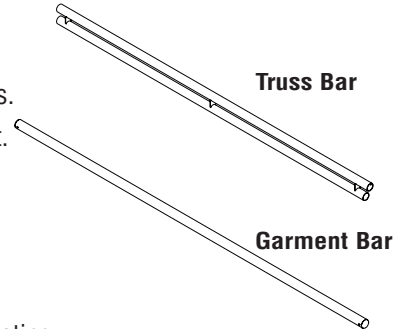
Robe and Uniform Storage

Application Information

Accessories

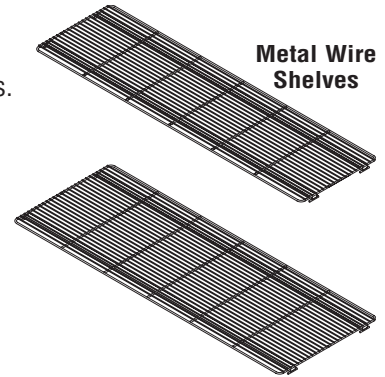
Truss Bar/Garment Bar

- Designed to be installed into the GearBoss X-Carts or Team Carts using two accessory hanger brackets.
- The Truss Bar is designed to be used with shoulder pad hangers, helmet hangers.
- The double-bar construction reduces the swinging motion of hanging equipment.
- The Garment Bar is designed to be used with standard garment hangers, support up to 175 jerseys.
- Durable powder-coat paint finish, black.
- Shipped ready to be installed, no tools required.
- Truss Bar, 1-1/2" x 4" x 751/2" long (4 x 10 x 192 cm). 200 lbs (90.7 kg) load rating.
- Garment Bar, 1-1/2" diameter x 751/2" long (4 x 192 cm). 100 lbs (45.4 kg) load rating.



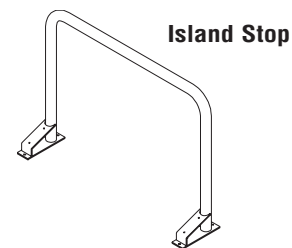
Metal Wire Shelves

- Designed to be installed into the GearBoss X-Carts or Team Carts using four accessory hanger brackets per shelf.
- Resistant welded construction of 3/16" and 5/16" (0.1875 and 0.3125) metal wires.
- Shipped ready to be installed, no tools required.
- The 24" (61 cm) wide shelf allows for shelving half of a 48" (122 cm) cart or all of the cart with two shelves.
- Wire Shelf 24" (61 cm), dimensions 21-5/8" x 74-7/8" (55 x 190 cm).
- Approximate weight, 35 lbs (15.9 kg).
- Wire Shelf, 32" (81 cm), dimensions 27-5/8" x 74-7/8" (70 x 109 cm).
- Approximate weight, 40 lbs (18.1 kg).
- Rated for 150 lbs (68 kg) evenly distributed.



Island Stop

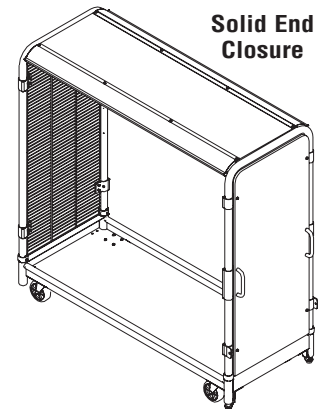
- Designed to be permanently installed as an end stop for the GearBoss Carts.
- Welded frame constructed of durable 2" (5 cm) diameter x 16 gauge steel tubing.
- Durable powder-coat paint finish, black
- Dimensions are 9-5/8" wide x 42-3/4" long x 30-1/2" tall (24 x 109 x 77 cm).
- Approximate weight: 24 lbs (10.9 kg).
- Shipped fully assembled.



Accessories (continued)

Solid End Closure

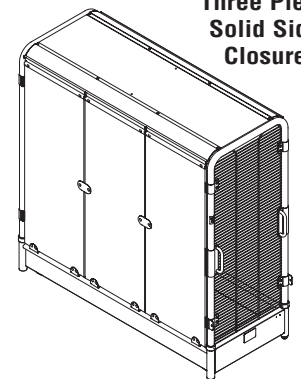
- Made from solid 5/8" wood composite with polyester laminate finish and black heavy-duty PVC edge banding.
- Can be ordered in a variety laminate colors.
- Provides an excellent space for team logos.
- Adds a level of security to carts.
- Cart End Closure, 32" (81 cm)
- Dimensions: 27-1/4" x 64-5/16" (96 x 163 cm) Approximate Weight: 25 lbs (11.3 kg).
- Cart End Closure, 48" (122 cm)
- Dimensions: 43-1/4" x 64-5/16" (110 x 163 cm) Approximate Weight: 48 lbs (21.8 kg).



Solid End Closure

Three Piece Solid Side Closure Accessory

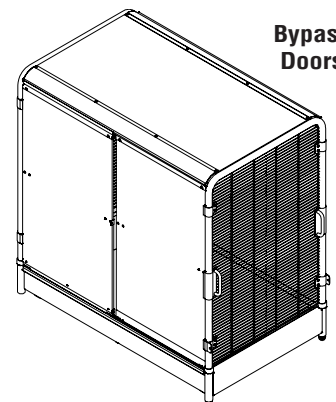
- Made from solid 5/8" wood composite with polyester laminate finish and black heavy-duty PVC edge banding.
- Can be ordered in a variety laminate colors.
- Securely closes one side of cart opposite open side or opposite a bypass door adding a level of security to carts.
- Shipped ready-to-assemble.
- Dimensions: 65" x 73" (165 x 185 cm).
- Approximate Weight: 75 lbs (34 kg).



Three Piece Solid Side Closure

Bypass Doors Accessory

- Made from solid 5/8" wood composite with polyester laminate finish and black heavy-duty PVC edge banding.
- Can be ordered in a variety laminate colors.
- Easy glide aluminum track provides convenient access.
- Sliding doors lockable with padlock (not supplied) for added security.
- Shipped ready-to-assemble.
- Dimensions: 65" x 73" (165 x 185 cm).
- Approximate Weight: 86 lbs (39 kg).



Bypass Doors

Robe and Uniform Storage

Application Information

GearBoss® SportCart™

Compact GearBoss SportCarts can be used as part of a larger GearBoss installation or as a mobile, stand-alone solution.

They are designed for use in small spaces and for sports that require less storage.

Four heavy-duty, 5" swivel casters make mobility a snap. The nimble SportCart will navigate narrow hallways, shorter door openings and most elevators. It's the small-space storage solution.

Performance Requirements

- High density storage on or off the track.
- Heavy-duty commercial-grade swivel casters for easy moving on hard surfaces such as concrete, gym floors, tile and low-pile unpadded carpet.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & Schools™ Certified.

Construction

- Welded chassis made from 16-gauge, 14-gauge and 12-gauge components.
- Upright support tubes constructed from large 2" (5 cm) diameter, 16-gauge steel tubing.
- Resistant welded heavy-duty steel wire grille end frames.
- Variety of colors available for wire grille ends.
- Extra wide heavy-duty 5" (12.7 cm) swivel casters made from glass-filled nylon with polyurethane non-marring outer roller guides.
- Roof panel is solid 5/8" (1.5 cm) thermofused composite wood core with aluminum extrusions is rated for a 150 lb (67.5 kg) load.
- 32" (81 cm) wide x 41-2/3" (106 cm) long x 74-1/2" (189 cm) high.
- Five-year warranty.

Accessories

Swing Door & Side Closure

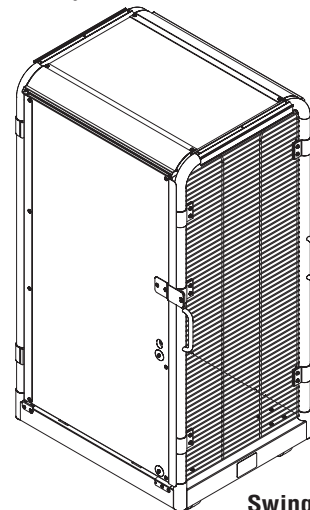
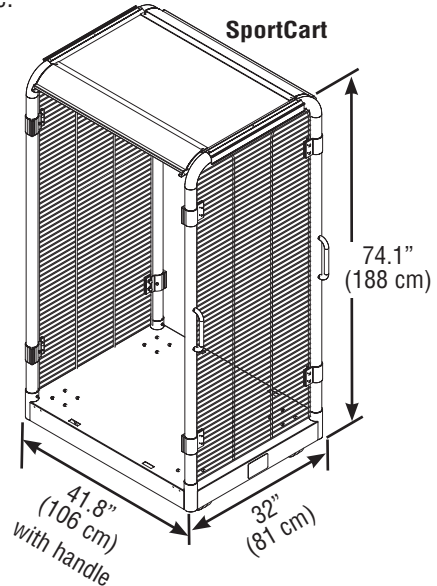
- Swing door lockable with padlock (not supplied) for added security.
- Made from solid 5/8" wood composite with polyester laminate finish and black heavy-duty PVC edge banding.
- Can be ordered in a variety laminate colors.
- Dimensions: Swing Door 34-1/8" x 63-1/2" (87 x 161 cm).
- Side Closure 34-7/8" x 65-5/8" (89 x 167 cm).
- Approximate Weight: Swing Door 52 lbs. (24 kg).
- Side Closure 41 lbs. (19 kg).

Garment Bar

- Designed to be installed using two included hanger brackets.
- Designed to be used with standard garment hangers and supports up to 80 jerseys.
- Durable black powder-coat paint finish.
- Dimensions: 37-1/2" (95 cm) x 1-1/2" OD".
- Rated for 100 lbs. (45 kg) weight evenly distributed.

Metal Wire Shelves

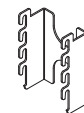
- Designed to be installed using four included hanger brackets per shelf.
- Resistant welded construction of 3/16" and 5/16" (0.1875" and 0.3125") metal wires.
- Rated for 150 lbs. (68 kg) evenly distributed.
- Dimensions: 27-5/8" x 37" (70 x 94 cm).
- Approximate Weight: 20 lbs. (9 kg).



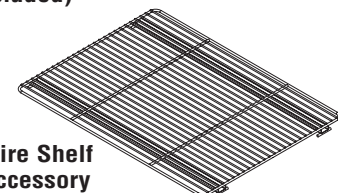
Swing Door & Side Closure Accessory



Garment Bar Accessory



Hanger Bracket (included)



Wire Shelf Accessory

Robe and Uniform Storage

Application Information

Sport Cart™ examples



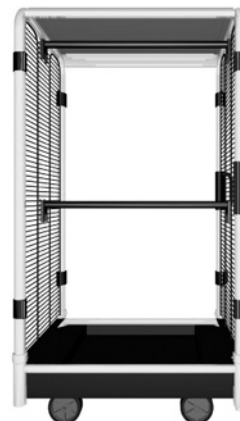
SportCart with three Metal Wire Shelves.

Commonly used for folded garments
(160 - 200 folded t-shirts and/or shorts)



SportCart with two Metal Wire Shelves and one Garment Bar.

Commonly used for uniforms
(80 uniforms: 80 folded pants/shorts)



SportCart with two Garment Bars.

Commonly used for uniforms
(160 hung jackets; ½" spacing)

Robe and Uniform Storage

Application Information

GearBoss® Shelving

This is the affordable, flexible, durable solution for shelving storage and workspace needs.

It works great for athletic, music and marching band storage; and theatre garment and prop storage.

The cantilever design optimizes overhead space and keeps the floor free from supports for extra room.

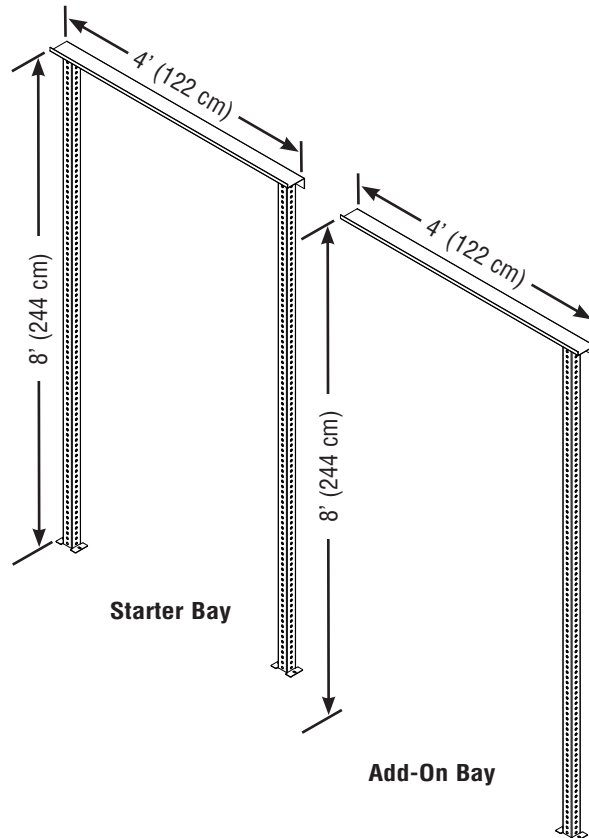
The system is so versatile it can be configured to your specific needs to make sure you get the maximum storage space.

Performance Requirements

- Cantilever design keeps the floor open for carts and flexible use.
- Holes at 1" (2.5 cm) increments provide easy adjustability.
- Shelves are adjustable by hand – no tools required.
- Each bay is load-rated at 1,000 lbs (450 kg) (if installation instructions are strictly followed).
- Spans doors and windows, if necessary.
- Easy to install and relocate.
- Uprights and mounting brackets are zinc-plated to avoid rust.

Construction

- Available in bays 4'w x 8'h (122 x 244 cm). Custom heights are available.
- Shelf supports are 14-gauge 7/8" (2.2 cm) square tube-steel with silver powder-coat paint finish.
- Aluminum shelf fronts feature a 3/8" (1 cm) lip to retain a hardboard insert or work surface option.
- Ten-year warranty.



Robe and Uniform Storage

Application Information

Accessories

Shelves, 30-1/2" and 17-1/2"

- 30-1/2" (77 cm) cantilevered shelf with 4 support tubes spaced 5-1/4" (13 cm).
- 17-1/2" (44 cm) cantilevered shelf with 2 support tubes spaced 5-1/4" (13 cm).
- Shelves can be mounted and adjusted in 1" (3 cm) increments without tools.
- Both shelves fronted with a contoured aluminum extrusion with a 3/8" (9 mm) lip to retain a hardboard insert.
- Each shelf is rated for 250 lbs (113 kg) evenly distributed, not to exceed 1,000 lbs (454 kg) per bay.
- All steel parts have a durable silver powder-coat paint finish.
- Shelf brackets are formed 12-gauge steel.
- Shelf support are 14-gauge 7/8" (22 mm) steel tubes.

Work Surface Panel

- 29-1/4" (74 cm) x 45-3/4" (116 cm) panel lays directly inside a 30-1/2" shelf.
- 1-1/8" (29 mm) graphite polyester laminated partial board with PVC edgebanding - black only.

Drawer

- Mounts to underside of a work surface panel accessory for a 30-1/2" shelf.
- 14-gauge steel construction.
- Durable black powder-coat paint finish.
- Rated for 100 lbs (45 kg) evenly distributed.

Garment Bar/Hanging Bar

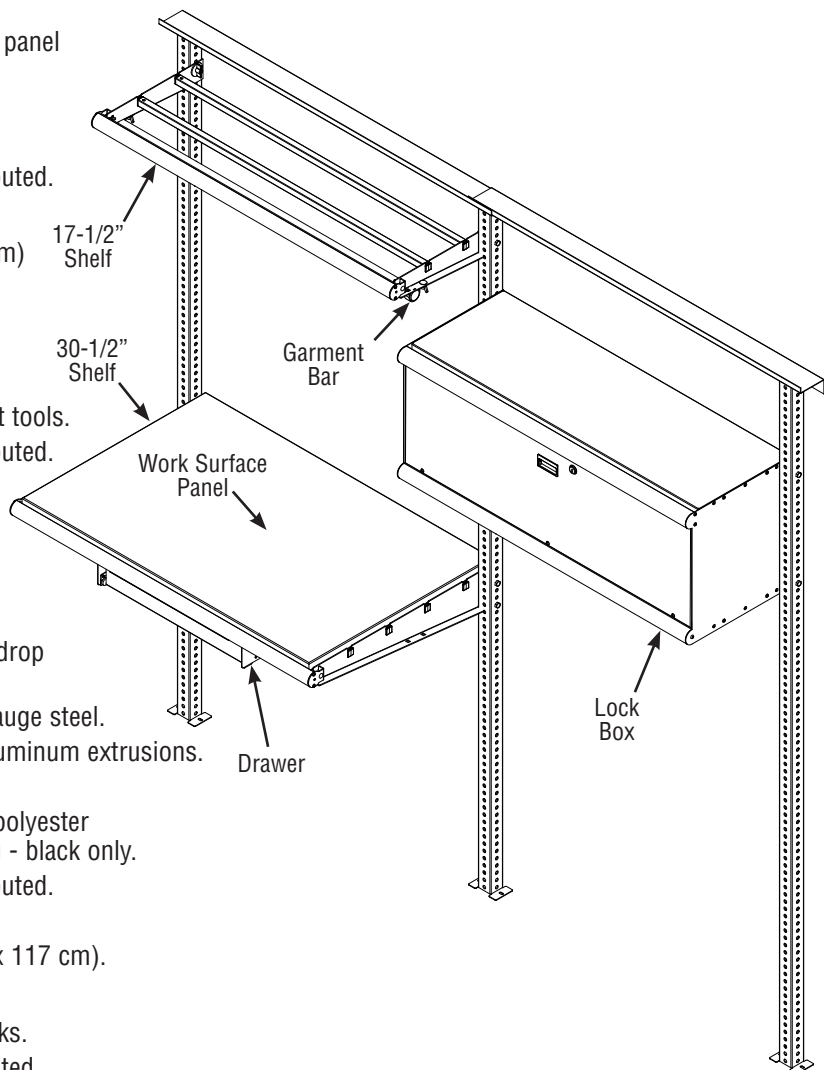
- 48" (122 cm) x 14-gauge x 1-1/2" (4 cm) round steel tube.
- All steel parts have a durable black powder-coat paint finish.
- Durable black powder-coat paint finish.
- Mounts to underside of shelves without tools.
- Rated for 100 lbs (45 kg) evenly distributed.
- Interchangeable companion products:
Football helmet hanger,
Shoulder pad hanger - long,
Shoulder pad hanger - short.

Lock Box

- Door is hinged at the bottom so it can drop and stay open for easy access.
- Sides, top and bottom panels are 16-gauge steel.
- Features upper and lower contoured aluminum extrusions.
- Laminated wood door with keyed lock.
- Door is 5/8" (16 mm) graphite pebble polyester laminated board with PVC edgebanding - black only.
- Rated for 100 lbs (45 kg) evenly distributed.
- Mounted and adjustable without tools.
- Dimensions: 16" x 18" x 46" (41 x 46 x 117 cm).

Peg Board Back

- Mounts directly onto existing shelf banks.
- Rated for 40 lbs (18 kg) evenly distributed.
- The 1/4" thick peg board material is not supplied by Wenger and must be purchased separately.

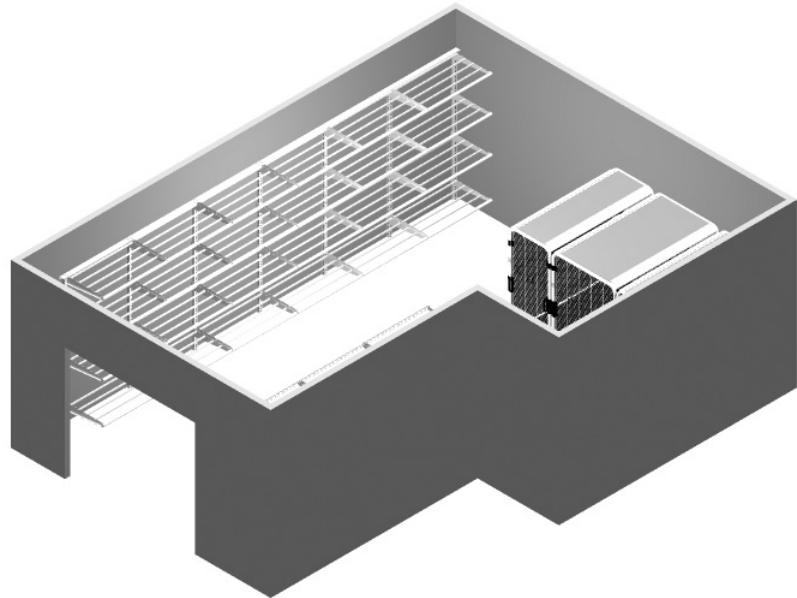
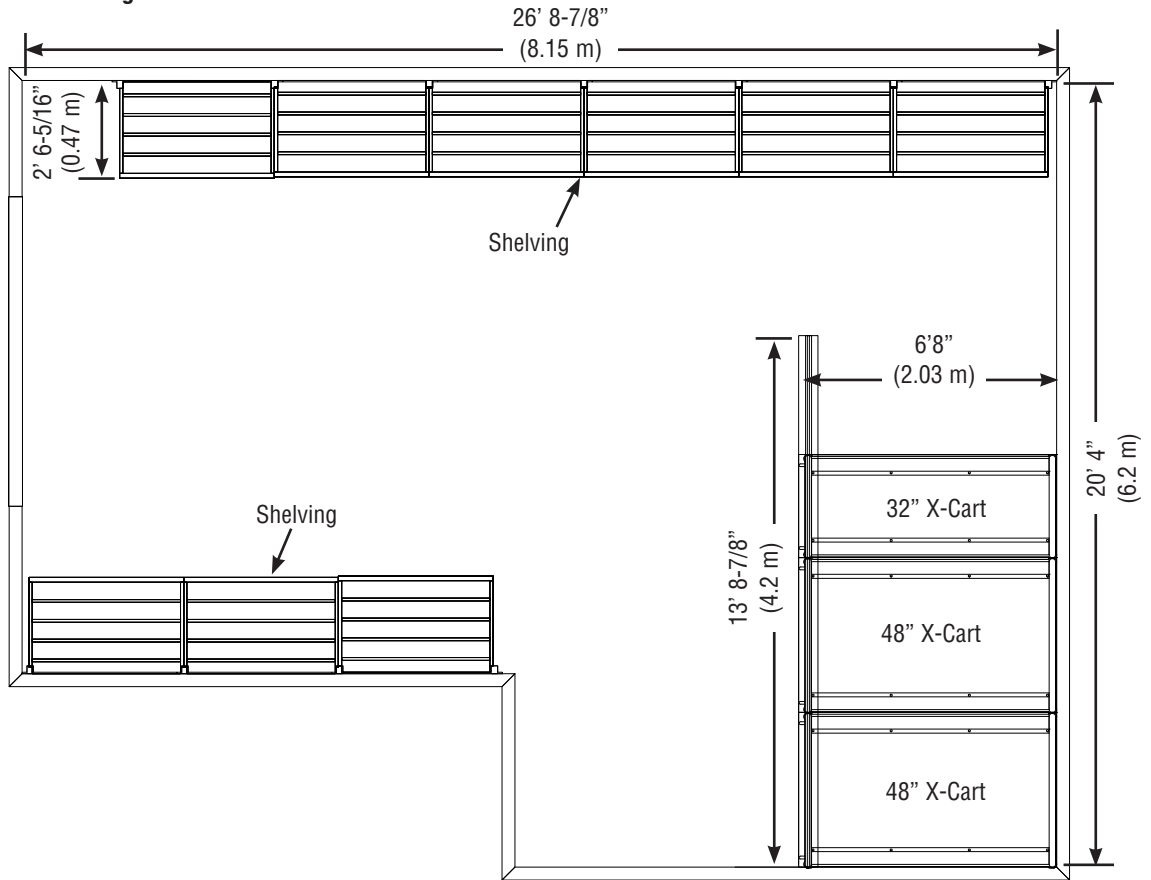


Robe and Uniform Storage

Typical Drawings

GearBoss Sample Layouts

GearBoss Carts and Shelving



Robe and Uniform Storage

Application Information

Miscellaneous information

Technical Sheets are included for:

- Rack n'Roll®
- OnBoard® Uniform Cart
- OnBoard® Cargo Cart

TECHNICAL SHEET

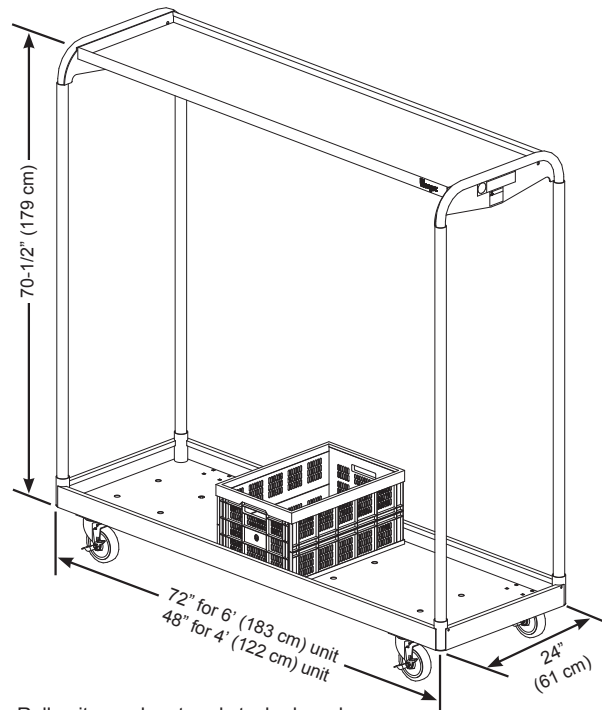
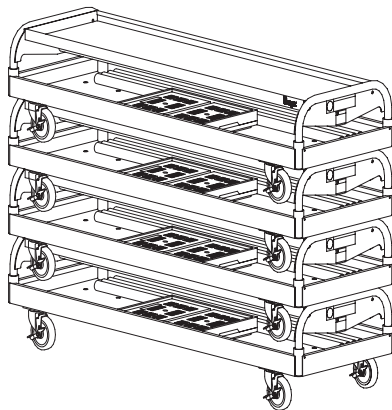


Rack 'n Roll®

- 028B001 4' (122 cm) Rack 'n Roll 140 lbs (63.5 kg) including one basket.
- 028B002 6' (183 cm) Rack 'n Roll 163 lbs (74 kg) including one basket.
- Load Capacities
 - 4' (122 cm) Rack 'n Roll total load capacity - 200 lbs (91 kg), includes top shelf load capacity of 25 lbs (11 kg) and hanger bar load capacity of 100 lbs (45 kg).
 - 6' (183 cm) Rack 'n Roll total load capacity - 300 lbs (136 kg), includes top shelf load capacity of 25 lbs (11 kg) and hanger bar load capacity of 150 lbs (68 kg).
- Ideal for transporting props, costumes, or other garments.
- Equipped with full-length hanger bar with space for full-length costumes.
- Folding basket organizes smaller items and stores compactly when not in use.
- 14-gauge bottom shelf protects longer garments from dragging on the floor.
- 16-gauge top shelf is ideal for lightweight items.
- Fits through standard 32" (81 cm) door.
- 4' (122 cm) model is designed for use in passenger elevators. Minimum elevator size: 5' (153 cm).
- 4' (122 cm) model designed for one-person operation. Two people required for 6' (183 cm) model.
- Assembles without the use of tools (1/2" wrench required for initial caster assembly only).
- Durable black powder-coat paint finish.
- Hanger bar constructed of 1-1/4" 11-gauge tubing.
- Uprights constructed of 13-gauge, 1-1/2" inch outside diameter (4 cm) round tubing.
- 5" (13 cm) swivel, locking, non-marking casters provide easy maneuverability.
- Basket is 20-7/8" x 14" w x 10-7/8" h (53 x 35 x 27 cm) when open; 20-7/8" x 14" w x 2-5/8" h (53 x 35 x 7 cm) when folded.
- 4' (122 cm) model stores compactly in 24" x 48" (61 x 122 cm) floor space. Allow 70-1/2" (179 cm) for height (unloaded).
- 6' (183 cm) model stores compactly in 24" x 72" (61 x 183 cm) floor space. Allow 70-1/2" (179 cm) for height (unloaded) plus 3/8" (9.5 mm) brake protrusion on one side.
- Top of hanger bar to top of bottom shelf is 5' 1" (155 cm).
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Dust Covers have security straps and two zippers on one side. Constructed with 600 Denier material. Black in color.
- Five-year warranty.

Accessories

- 028B007 Additional Folding Basket, 4.1 lbs (1.9 kg).
- 028B013 Costume Divider Tags, pack of 25.
- 210B230 Hanger Retainer Clips, pack of 40.
- 028B014 4' (122 cm) Dust Cover.
- 028B015 6' (183 cm) Dust Cover.
- 028B016 Privacy Screen.



Multiple Rack 'n Roll units can be stored stacked as shown. It is recommended that the maximum number of stacked units do not exceed four. It is also recommended that two people stack the units for storage. Not intended to be moved when stacked.

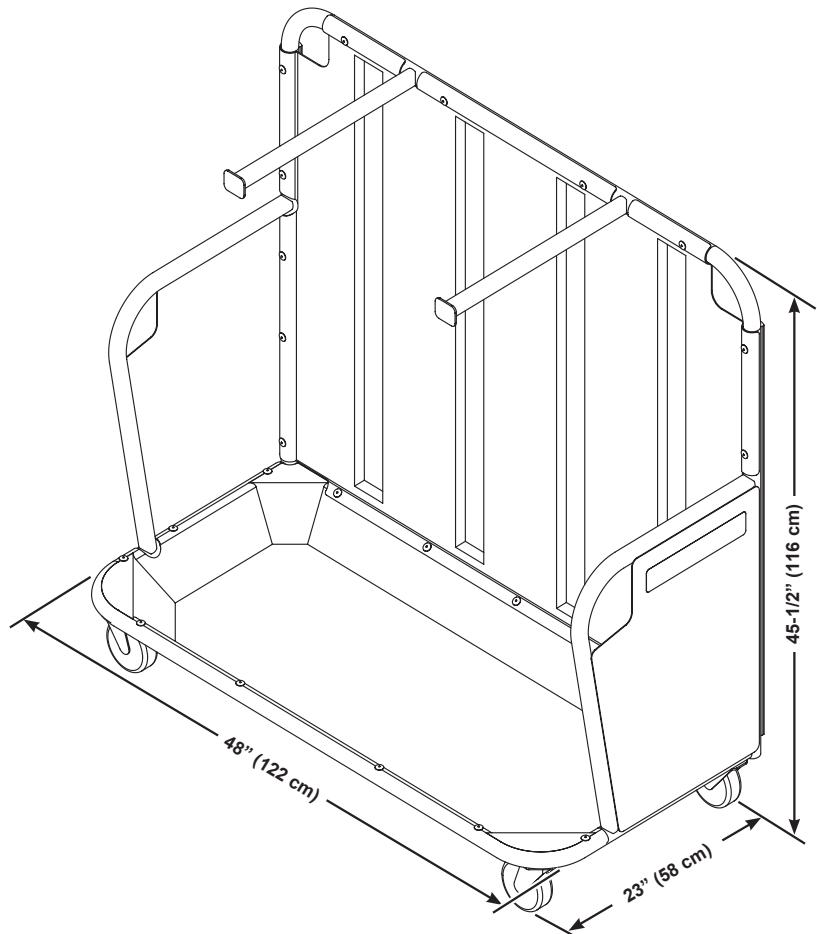
2017-01

TECHNICAL SHEET



OnBoard® Uniform Cart

- 210A007 OnBoard Uniform Cart, 56 lbs. (25 kg).
- Ideal for transporting marching band uniforms in the storage compartments of a coach bus.
- Designed to fit into trailers, semi-trailers and trucks.
- Equipped with two 16 gauge, 1-1/4" (3 cm) round steel tubing with steel end plates for labeling.
- Frame is constructed of 14-gauge 1-1/4" (3 cm) round tubular steel in black powder-coat paint finish.
- Back and bottom tray constructed of black ABS plastic for superior strength and durability.
- Fits through standard 32" (81 cm) door.
- Includes built-in handholds for tilting and sliding cart into storage compartment - no lifting involved.
- Glides included on back of cart for sliding into compartment.
- Capacity for 24 marching band uniforms.
- 28 hanger retainer clips included with cart.
- All-swivel, non-marring solid polypropylene 4" dia. (10 cm) casters provide easy maneuverability.
- Dimensions: 48" (122 cm) long x 23" (58 cm) deep x 43" (109 cm) high.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Five-year warranty.
- Shipped fully assembled.



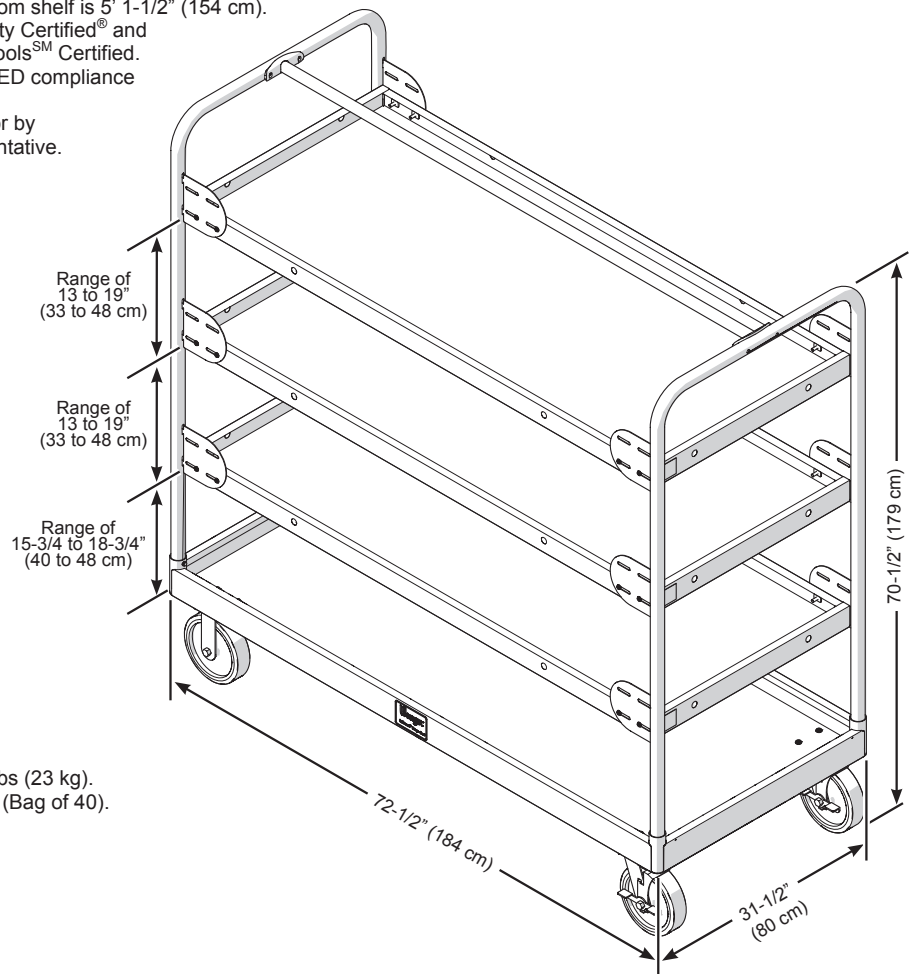
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TECHNICAL SHEET

Wenger®
Your Performance Partner

OnBoard® Cargo Cart

- 210A003 6' (183 cm) OnBoard Cargo Cart, 130 lbs. (59 kg) with hard casters.
- 210A004 6' (183 cm) OnBoard Cargo Cart, 130 lbs. (59 kg) with pneumatic casters.
- Ideal for transporting marching band uniforms, hats, garments, and musical instruments.
- Designed to fit into trailers, semi-trailers and trucks with minimum 6' (183 cm) door height.
- Equipped with removable full-length garment bar and 40 hanger retainer clips.
- Fits through standard 3' (91 cm) door.
- Bottom shelf stores and transports hats, flags (under 6' [183 cm] in length) and instruments.
- Optional additional adjustable shelves are available (not included).
- Capacities: 35 marching band uniforms on garment bar, 21 hats on bottom shelf.
- Durable black powder-coat paint finish.
- Garment Bar constructed of 12-gauge 1-1/4" (3.2 cm) round tubing with load capacity of 150 lbs (68 kg).
- Uprights constructed of 16-gauge 1-1/4" (3.2 cm) round tubing; include slots for adding additional shelves.
- All-swivel, non-marking solid or pneumatic casters provide easy maneuverability.
- Bottom shelf is constructed of 16-gauge steel construction with black powder-coat paint finish.
- Top of garment bar to top of bottom shelf is 5' 1-1/2" (154 cm).
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Five-year warranty.
- Shipped unassembled.



Accessories

- 210A002 - Adjustable Shelf, 50 lbs (23 kg).
- 210B230 - Hanger Retainer Clip (Bag of 40).
- 210A220 - Protective Cover.

2017-01

Music Storage



Wenger®
Your Performance Partner

Convenient and functional storage systems that reduce the space needed for storage.



Music Library System

The Wenger Music Library System makes music much more accessible and easy to locate in only a fraction of the space. The patented high-density, roll-out design cuts storage space nearly in half when compared to standard file cabinets and also gives you a much cleaner, more organized appearance.

- Adjustable shelves store 9" x 12" (23 cm x 30 cm) sheet music, file boxes, folders, etc.
- Rugged square tubular steel frame with 34-1/2" w (88 cm) plywood-core shelves coated in protective polyester laminate.
- Units are 44" d (112 cm) and 16" w (41 cm) when closed, 80" d (203 cm) when open. Oversized width available.
- 7-shelf model is 92" h (235 cm) and requires 8' (2.4 m) ceiling height; 6-shelf model is 81-1/2" h (204 cm) and requires 7' (2.1 m) ceiling height.
- Optional shelf lock.
- Recommended for installation on concrete or epoxy-coated concrete for best performance. Also can be installed on industrial grade carpet without pad.



Media Storage Cabinets

When you consider just how valuable all your facility's media equipment is, it makes sense to store and secure it in a way that protects your investment. Wenger's fixed cabinets transform a chaotic storage area into one you can be proud of. Fixed media cabinets come in three types: Standard, Rackmount and Organizer. Choose the type you need then add shelves, drawers and other accessories.

As the level of technology in today's educational environments skyrockets, the need for connecting students to various media increases as well. Wenger's Mobile Media Storage Carts are portable, lockable, media hubs that will get your technology where it needs to be. It has a durable worksurface on top, plenty of room for electronics inside and is easy to maneuver. Like the Wenger Fixed Media Cabinets, these come in one or two column designs and are configurable with many accessories.



Music Sorting Rack

Sort score by instrument and roll it from the music library to the rehearsal or performance space. The strong, stable Wenger design is extremely portable and will provide great convenience for years.

Percussion Workstation

A lockable storage solution and practical work area that keeps percussion instruments organized and ready to play. Large 48" x 24" (122 cm x 61 cm) worktop that is padded to silence instruments not in use.

Foam-lined drawers store triangles, sand blocks, brushes, drumsticks, mallets, tambourines, maracas, and other small items.

Shelves hold the largest standard-size cymbals and the lower compartment is perfect for storing parade and snare drums.

Four heavy-duty casters glide over any surface and provide stability.



Folio Cabinets

Tall cabinets store up to 100 of your band, orchestra, or choral folios in a single, organized unit. Mobile units offer easy portability with adjustable shelving for band/orchestra folios or choral folios. All models are attractive, lockable and built tough to provide day-to-day reliability and long-lasting value.



Color Options

Laminate Color



Edge Banding



Hardware & Fasteners



Ten-year warranty on all music storage products.



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Music Storage

Overview

In addition to our Instrument and Robe/Uniform Storage Solutions, Wenger offers individualized cabinets for sheet music, elementary musical instrument, miscellaneous instrument and accessories and general storage. Designed and manufactured with the same level of quality and materials, our Music Storage solutions are built to last.

Sheet Music Storage:

Music Library System - Storage options that cut sheet music storage by more than half. High-density slide-out design organizes music with a systematic approach that can save hours.

Folio Cabinets - Keeps music folios organized in a mobile cabinet. Shelf space is adjustable in 1/2" (12.7 mm) increments to accommodate choral, band and orchestra folios.

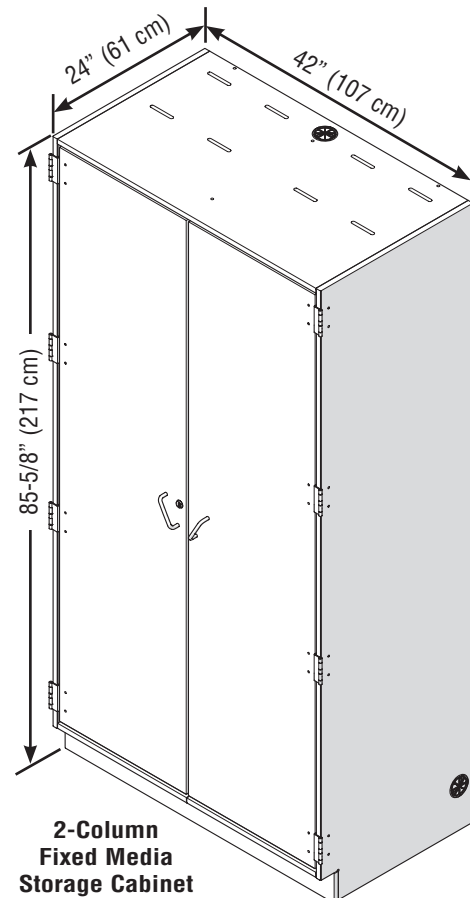
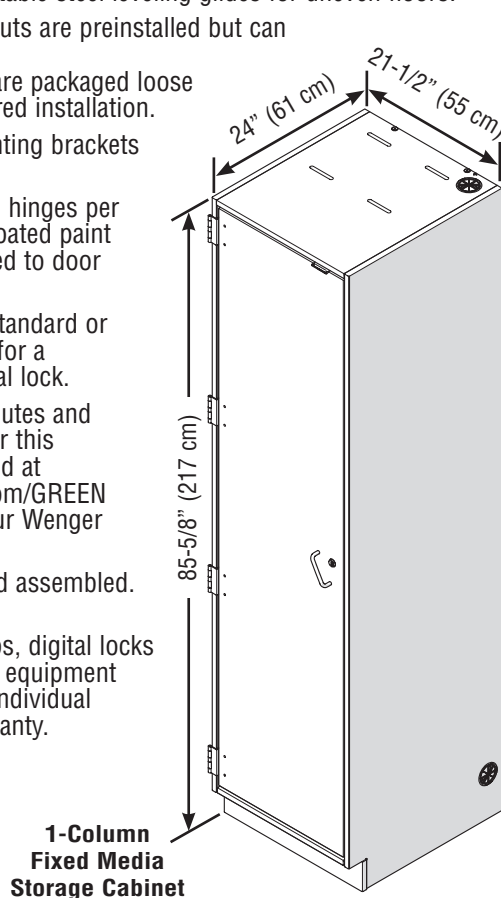
Music Sorting Rack - Strong, stable design that assists in the sorting of scores and easily rolls from your music library to rehearsal or performance areas.

Other Solutions include:

- Fixed Media Storage Cabinets
- Mobile Media Storage Cabinets
- Bookcases
- Poster/Teaching Storage Cabinet
- Percussion Workstation
- Music Sorting Rack
- Mobile Folio Cabinets
- ORFFgarage[®]
- ORFFmobile[®]

Fixed Media Storage Cabinets

- Cabinets are constructed 3/4" (19 mm) thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in Wenger standard colors.
- Edging is 1/8" (3mm) radiused PVC.
- Available in one column or two column sizes:
 - - 1 column 21-1/2" w x 24"d x 85-5/8" h (55 x 61 x 217 cm).
 - - 2 column 42" w x 24"d x 85-5/8" h (107 x 61 x 217 cm).
- Full locking wood doors with 270 degree hinges to swing door open flush with side panel.
- Each column of the cabinet is available in three types:
 - Standard – allows for addition of shelves and drawers (includes one fixed shelf).
 - Rack mount – Steel 7-unit rack mount section with one mounted power strip included and cage nuts to attach electronic components. Unit folds down on hinge for access to cords in back. Additional space can be configured for drawers and shelves (fixed shelf above and below rack mount).
 - Organizer – Includes one steel organizer grid with black power-coated finish mounted to inside of door and one mounted to back of cabinet. Accessories sold separately and fits standard 3" (7.62 cm) on center slatwall parts (one fixed shelf above height of organizer grid).
- Top venting holes allow ventilation.
- Wire management clips to hold wires.
- Steel pilaster rail allows for mounting of shelves, slide-outs and drawers with ability to reposition along the length at 1/2" (1.25 cm) increments.
- Cabinets have adjustable steel leveling glides for uneven floors.
- Drawers and slide-outs are preinstalled but can be repositioned. Adjustable shelves are packaged loose for customer preferred installation.
- Wall and floor mounting brackets included.
- Four 5-knuckle steel hinges per door with powder-coated paint finish, through-bolted to door and side panels.
- Keyed lock comes standard or may be substituted for a programmable digital lock.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Cabinets are shipped assembled.
- Ten-year warranty. Optional power strips, digital locks and other electronic equipment are covered by the individual manufacturer's warranty.



Music Storage

Application Information

Optional Interiors

- Adjustable shelves, notched to allow space for cords.
- Slide out shelves, can be repositioned along pilaster.
- 4" drawer is constructed of steel.
- File drawer is constructed of steel and includes adjustable mounting bar for hanging file folders, standard or legal sized.
- 19" Steel 7-unit rack mount section with one rack mounted power strip.
- Steel organizer grid with black power-coated finish fits standard 3" (7.62 cm) on center slatwall parts.

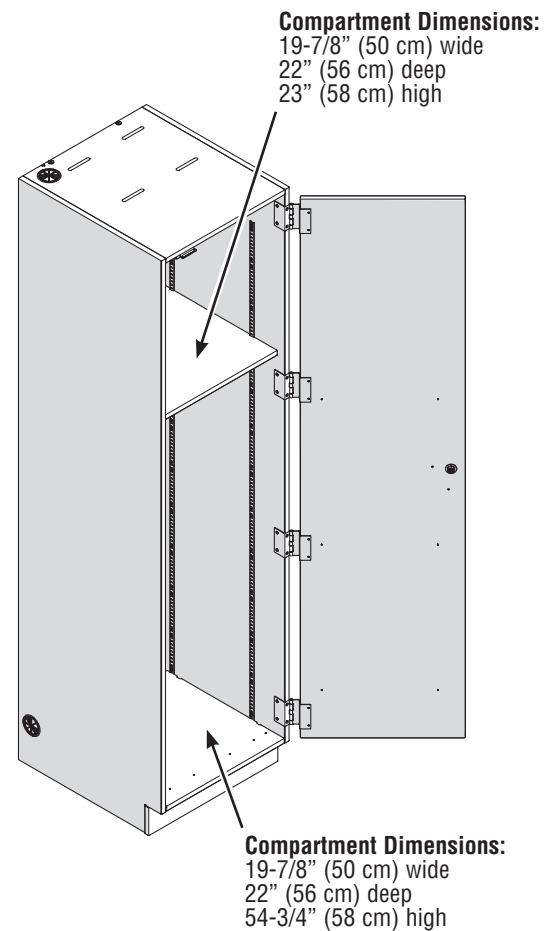
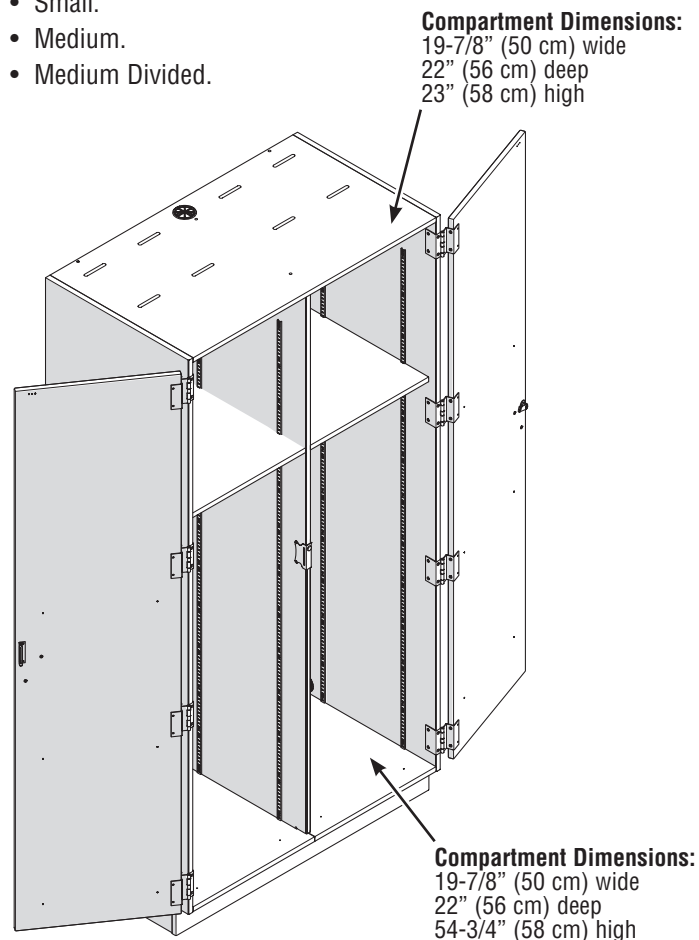
Accessories

Organizer Grid Accessories

- Individual Hook (3-pack).
- Cable Minder (1-pack) – (holds six cables) fits three down per grid.
- CD holder – (holds thirty CD's) fits five down per grid.
- Mic Stand Holder (1-pack of three pieces) – holds one folding microphone stand, fits four across per grid.
- Basket (1-pack) – 12" x 8" x 4" (30 x 20 x 10 cm) – fits five down per grid.
Depth will not accommodate baskets on both door and interior.

Clear Storage Bins

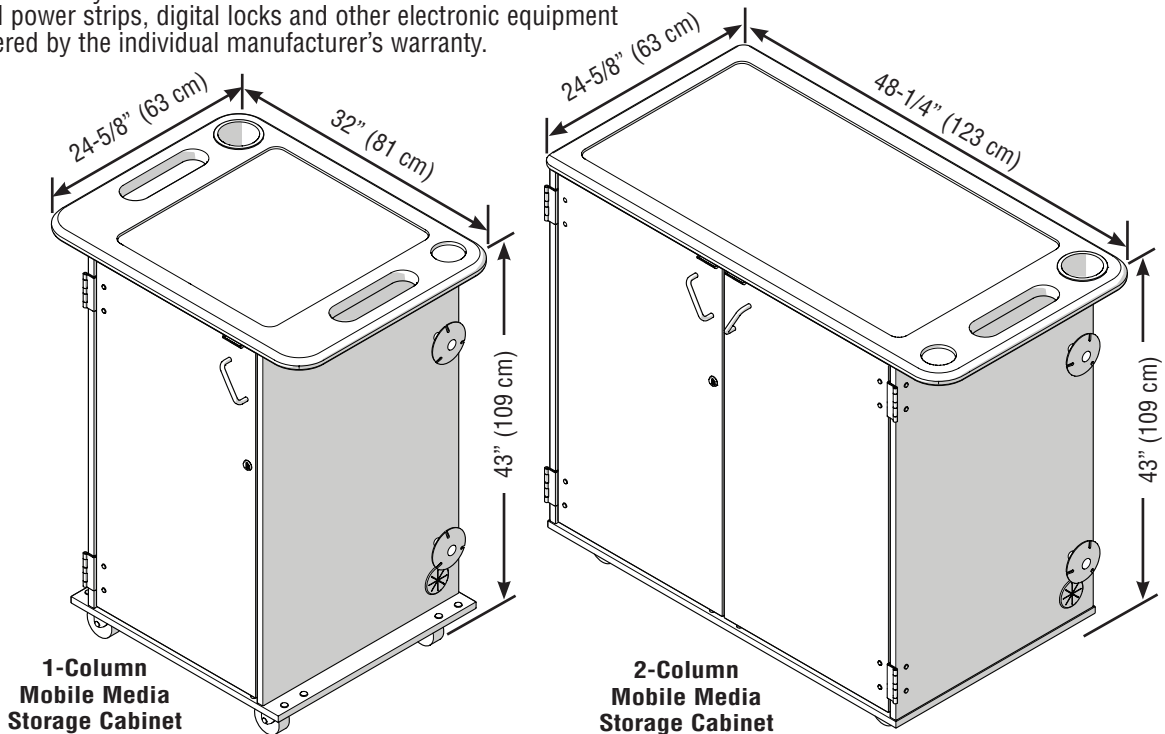
- Small.
- Medium.
- Medium Divided.



Mobile Media Storage Cabinets

- Cabinets are constructed 3/4" (19 mm) thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in Wenger standard colors.
- Bottom is constructed of Vencore plywood for extra strength.
- Edging is 1/8" (3mm) radiused PVC.
- Available in one column or two column sizes:
 - 1 column 32" w x 24-5/8"d x 43" h (81 x 63 x 109 cm).
 - 2 column 48-1/4" w x 24-5/8"d x 43" h (123 x 63 x 109 cm).
- Full locking wood doors with 270 degree hinges to swing door fully open.
- Each column of the cabinet is available in two types:
 - Standard – allows for addition of shelves and drawers.
 - Rack mount – Steel 7-unit rack mount section with one mounted power strip included and cage nuts to attach electronic components. Unit folds down on hinge for access to cords in back (fixed shelf above and below rack mount).
Two column has space above and below for storage.
One column has space to add 4" (8 cm) drawer, slide out shelf or both.
- Two column cabinet includes full width slide out shelf width 39-1/2" wide x 16" deep (83 x 41 cm).
- Cable management with clips, cable pass through and cord wrap.
- Steel pilaster rail allows for mounting of shelves, slide-outs and drawers with ability to reposition along the length at 1/2" (1.25 cm) increments.
- Work surface top is constructed of thermofoil wrap over composite panel for high wear resistance. It includes an integrated handle and cup holder.
- 4" (8 cm) durable, smooth rolling swivel casters.
- Drawers and slide-outs are preinstalled but can be repositioned. Adjustable shelves are packaged loose for customer preferred installation.
- Two 5-knuckle steel hinges per door with powder-coated paint finish, through-bolted to door and side panels.
- Front keyed lock comes standard or may be substituted for a programmable digital lock.
- Rear keyed lock allows additional access to components.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Cabinets are shipped assembled.
- Ten-year warranty.

Optional power strips, digital locks and other electronic equipment are covered by the individual manufacturer's warranty.



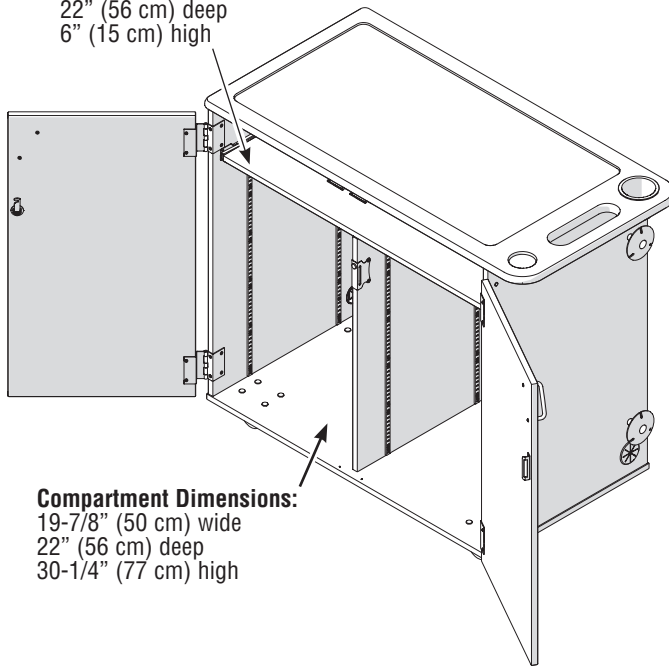
Music Storage

Application Information

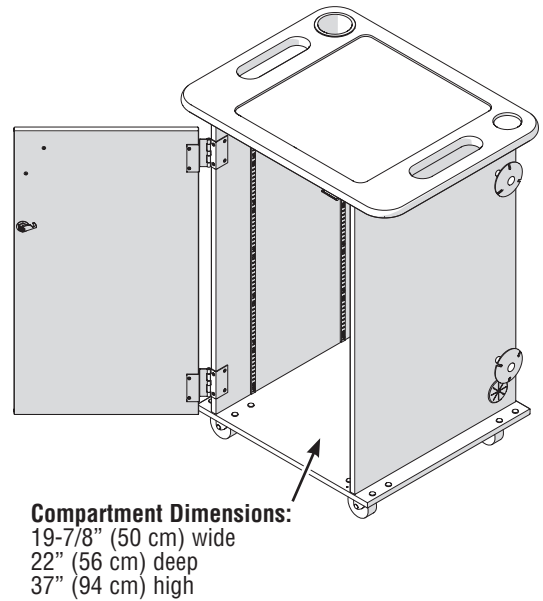
Optional Interiors

- Adjustable shelves, notched to allow space for cords.
- Slide out shelves, can be repositioned along pilaster.
- 4" drawer is constructed of steel.
- File drawer is constructed of steel and includes adjustable mounting bar for hanging file folders, standard or legal sized.
- 19" Steel 7-unit rack mount section with one rack mounted power strip.

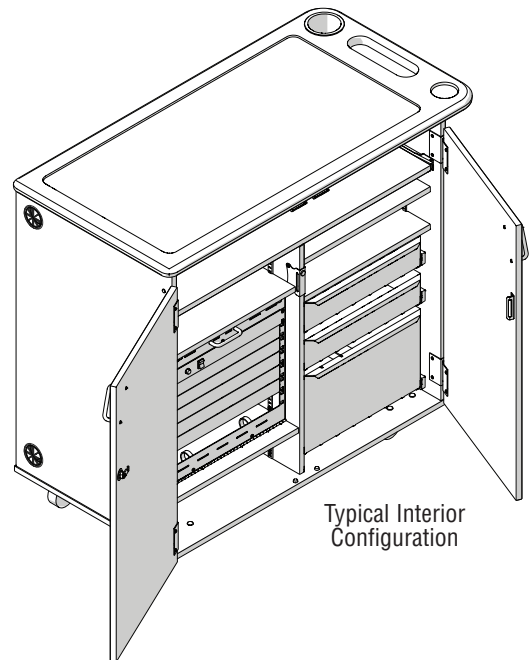
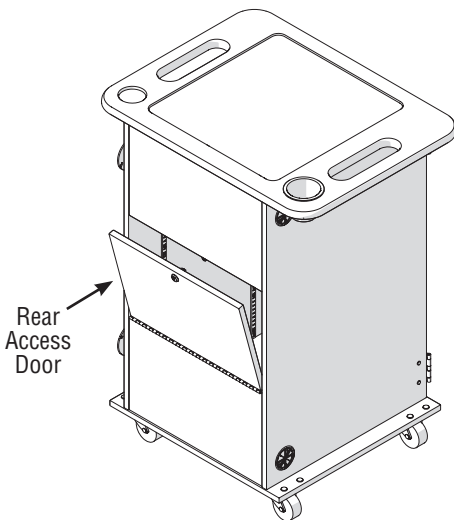
Compartment Dimensions:
40-1/2" (103 cm) wide
22" (56 cm) deep
6" (15 cm) high



Compartment Dimensions:
19-7/8" (50 cm) wide
22" (56 cm) deep
30-1/4" (77 cm) high



Compartment Dimensions:
19-7/8" (50 cm) wide
22" (56 cm) deep
37" (94 cm) high



Music Storage

Application Information

Music Library System

- Available in 6-shelf unit or 7-shelf-unit.
- 173G700_ Standard width 7-shelf unit 274 lbs. (124 kg), Oversized width 7-shelf unit 313 lbs. (142 kg).
- 173G600_ Standard width 6-shelf unit 243 lbs. (110 kg), Oversized width 6-shelf unit 278 lbs. (126 kg).
- Overall Dimensions:
 - Closed position: 16" wide x 44" deep x 92-1/2" high (41 x 112 x 235 cm) 7-shelf unit.
 - Open position: 16" wide x 80" deep x 92-1/2" high (41 x 203 x 235 cm) 7-shelf unit.
 - 6-shelf unit is 82" (208 cm) high.
 - Oversized units are 19" (48 cm) wide.

NOTE: Add 3" (8 cm) to overall width of set for installation rough opening.

- Pull-out design, equally spaced shelves provide 10-1/2" (27 cm) of available height per shelf. Standard width units have 12" x 34-1/2" x 10-1/2" (30 x 88 x 27 cm) of shelf space available. Oversized width units have 15" x 34-1/2" x 10-1/2" (38 x 88 x 27 cm) of shelf space available.

- On the 7-shelf unit, four shelves are adjustable and three shelves are fixed (upper fixed shelf can be repositioned in five different locations for greater flexibility). On the 6-shelf unit, four shelves are adjustable and two shelves are fixed.

- Units are constructed of 3/4" (19 mm) thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in Wenger standard colors.

- Shelves are reinforced with an aluminum extrusion that includes a slot with vinyl material for labeling with dry-erase markers.

- Frame is 16-gauge, 1" (2.54 cm) square tubular steel, painted black.

- Back panel is designed to fit on either side of unit for left or right hand use.

- Includes four 8" (20 cm)-diameter casters for easy movement of unit.

- 173G011_ End Cover, 7-shelf unit, Oyster 71 lbs. (33 kg).
- 173G010_ End Cover, 6-shelf unit, Oyster 63 lbs. (29 kg).

- Each unit contains bumpers for control of side and outward movement.

- Unit requires anchoring to floor and wall.

- Weight Capacities:
 - Each shelf is rated at 100 lbs. (45 kg) maximum capacity.
 - 7-shelf unit = 700 lbs. (318 kg) total unit capacity
 - 6-shelf unit = 600 lbs. (272 kg) total unit capacity.

- Sheet Music Capacity (approximate):
 - 7-shelf unit = 190 titles at 1-1/4" (3 cm) spacing/title.
 - 240 titles at 1" (2.54 cm) spacing.
 - 300 titles at 3/4" (19 mm) spacing.
 - 6-shelf unit = 160 titles at 1-1/4" (3 cm) spacing/title.
 - 200 titles at 1" (2.54 cm) spacing.
 - 260 titles at 3/4" (19 mm) spacing.

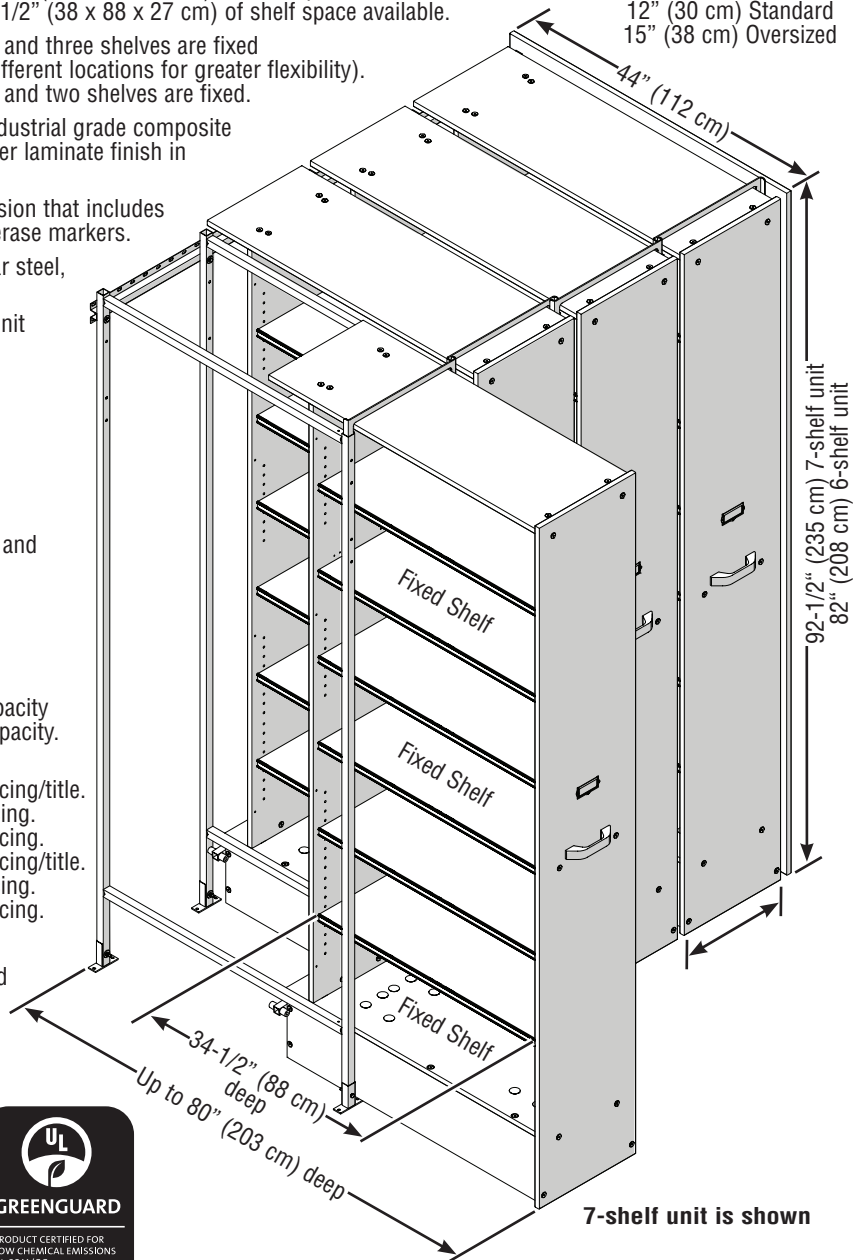
- Ten-year warranty.

- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.

- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.

Overall Width
16" (41 cm) Standard
19" (48 cm) Oversized

Compartment Width
12" (30 cm) Standard
15" (38 cm) Oversized



Music Storage

Application Information

Installation Requirements

- Top Closures must be used if installing less than four Shelf Units or if not attaching less than four Shelf Units to a side wall (peninsula type installation).
- Music Library Systems should be installed on concrete or epoxy coated concrete flooring. Not recommended for installation on padded carpeting or vinyl flooring. Floor point load for a 7-shelf unit is at rated load is 800 psi (5516 kpa) per caster. Floor point load for a 6-shelf unit is at rated load is 700 psi (4826 kpa) per caster.

Accessories

- 173G012 Top closure, constructed particleboard that matches the end covers. Supports up to 50 lb/lin ft (74 kg/m) loading.
- Oblique File System Accessory is available on standard 12" (30 cm) shelf widths.
- Lock option (padlocks not included).

How to determine the number of units needed:

1. Measure your current library of sheet music in inches.

Filing cabinets:

Measure the depth of the music in each drawer. Do not add empty space.

Total depth is the total inches of all your individual drawers combined (music only).

If your cabinets are all the same depth and all full, you can arrive at total depth by multiplying the common drawer depth by the number of drawers.

For instance, the total depth of forty 24"-deep drawers would be 960".

Open shelving:

Measure the total lineal inches of sheet music on each shelf. Music must be stacked standing up.

Add the total of each shelf to arrive at total depth.

2. Divide total depth by the total capacity of the 6- or 7-shelf unit.

7-shelf unit total capacity = 241-1/2"

6-shelf unit total capacity = 207"

For instance, 960" divided by 241-1/2" equals 3.98, or four 7-shelf units.

960" divided by 207" equals 4.64, or five 6-shelf units.

Tall Folio Cabinets

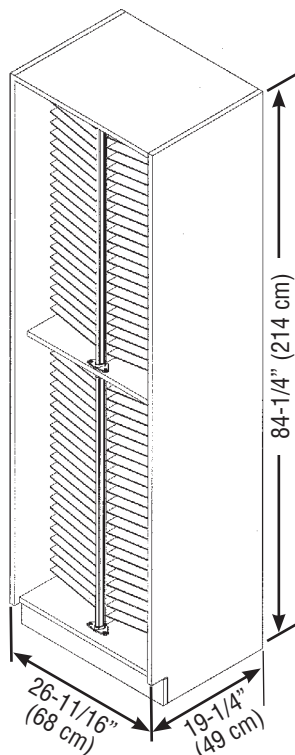
- Wall panels and optional lockable doors are 3/4" (19 mm) thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in Wenger standard colors.
- Shelves are 1/8" (3 mm) thick tempered hardboard.
- Available in 1", 1-1/2", 2", 2-1/2", and 3" (25, 38, 51, 63, and 76 mm) shelf height openings to accommodate various thicknesses of folios.
- Shelf support columns are extruded aluminum, black powder-coat paint finish.
- Optional lockable doors are made of thermofused composite wood with polyester laminate finish.
- Cabinet includes four levelers to level and square cabinet.
- Number strips included for all shelf spacing options.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN.
- Cabinets are shipped fully assembled.
- Wall mounting bracket included.
- Ten-year warranty.

Tall Choral Folio Cabinet

- Cabinet only: 196 lbs. (89 kg) (based on 1-1/2" shelf spacing).
- Cabinet with doors: 238 lbs. (108 kg) (based on 1-1/2" shelf spacing).
- Cabinet is 26-11/16" wide x 19-1/4" deep x 84-1/4" high (68 x 49 x 214 cm).
- Shelf openings are 11-5/8" wide x 12-3/8" deep (30 x 31 cm).
- Shelf spacing can be adjusted in 1/2" (13 mm) increments from 1" to 3" (25 to 76 mm).

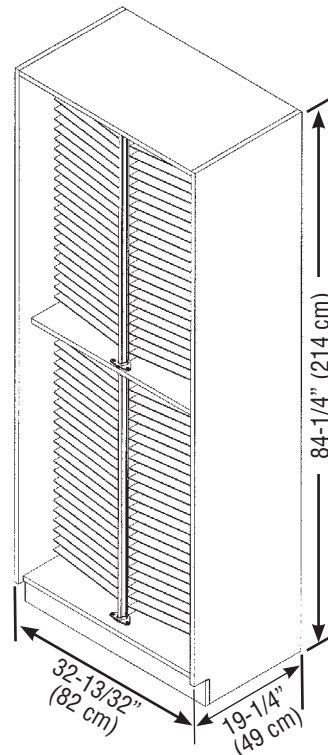
Tall Band/Orchestra Folio Cabinet

- Cabinet only: 230 lbs. (105 kg) (based on 1-1/2" shelf spacing).
- Cabinet with doors: 281 lbs. (128 kg) (based on 1-1/2" shelf spacing).
- Cabinet is 32-13/32" wide x 19-1/4" deep x 84-1/4" high (82 x 49 x 214 cm).
- Shelf openings are 14-7/16" wide x 13-7/8" deep (37 x 35 cm).
- Shelf spacing can be adjusted in 1/2" (13 mm) increments from 1" to 3" (25 to 76 mm).



Choral Folio Cabinet

Shelf Spacing Capacity	
1" (25 mm)	144
1-1/2" (38 mm)	96
2" (51 mm)	72
2-1/2" (64 mm)	56
3" (76 mm)	48



Choral Folio Cabinet

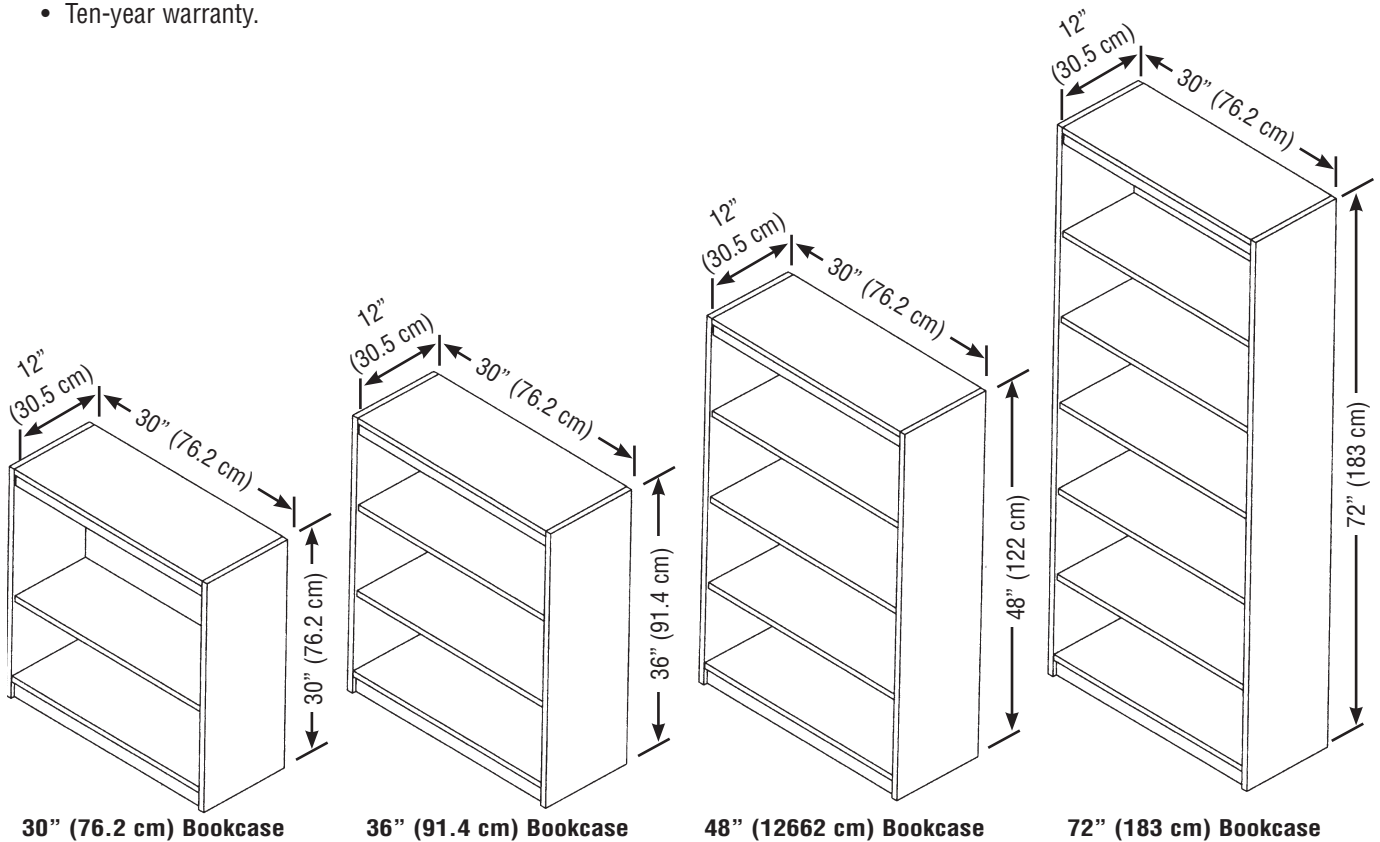


Music Storage

Application Information

Bookcases

- Models:
 - 30" (76.2 cm) high - 57 lbs. (26 kg) 30" wide x 12" deep x 30" high (76.2 x 30.5 x 76.2 cm)
 - 36" (91.4 cm) high - 68 lbs. (31 kg) 30" wide x 12" deep x 36" high (76.2 x 30.5 x 91.4 cm)
 - 48" (122 cm) high - 85 lbs. (38 kg) 30" wide x 12" deep x 48" high (76.2 x 30.5 x 122 cm)
 - 72" (183 cm) high - 144 lbs. (65 kg) 30" wide x 12" deep x 72" high (76.2 x 30.5 x 183 cm).
- All shelves are adjustable. Constructed of 3/4" (1.9 cm) plywood with thermofused polyester laminate finish.
- Sides and top panels constructed of 3/4" (1.9 cm) thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in Wenger standard colors.
- 1/8" (3 mm) thick PVC edge banding.
- Back panel is 1/4" (64 mm) thick thermofused composite wood core with polyester laminate finish.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN.
- Bookcases are shipped ready-to-assemble.
- Ten-year warranty.



Music Storage

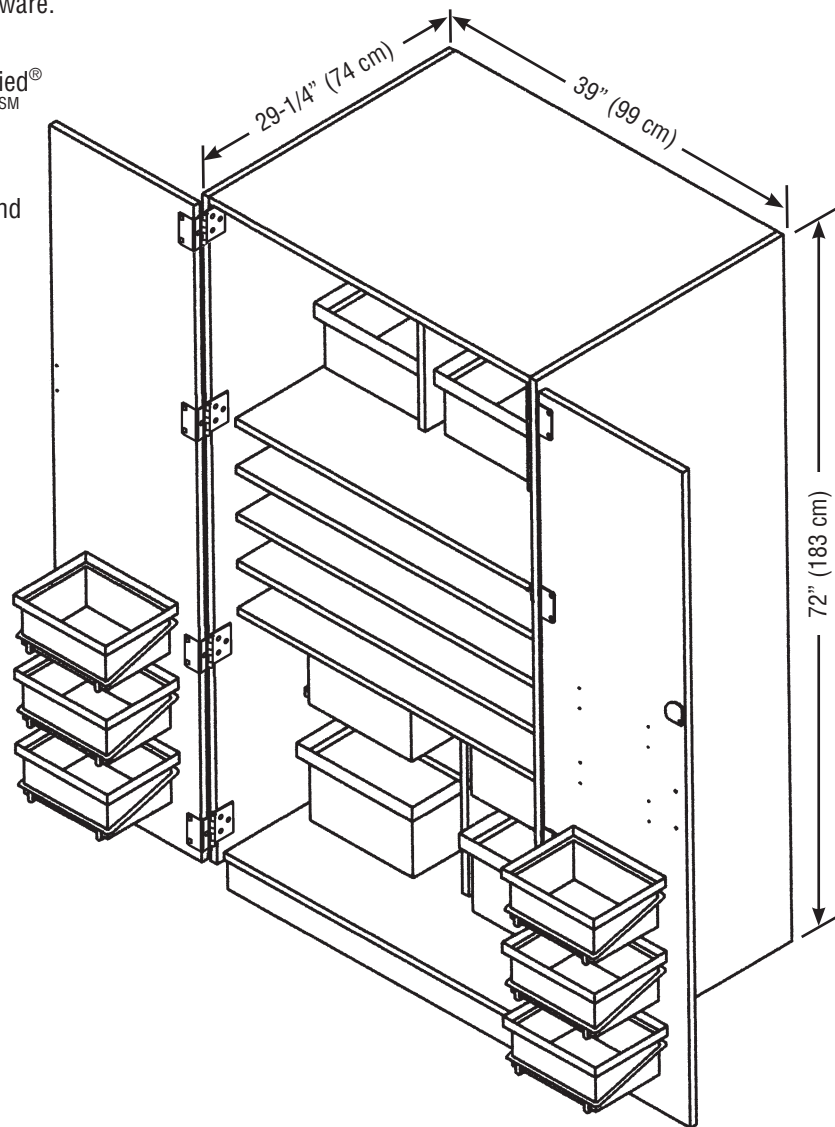
Application Information

Poster/Teaching Storage Cabinet

- 457 lbs. (206 kg).
- Overall dimensions: 39" wide x 29-1/4" deep x 72" high (99 x 74 x 183 cm).
- Features five adjustable shelves.
- Four compartments for storage of posters, charts and other teaching materials: 37-1/2" wide x 27" deep x 4" high (95 x 69 x 10 cm).
- Comes with six small storage bins with labels. Bins come in the primary colors of red, blue and yellow. Includes three medium bins and four large bins.
- Small bins are mounted on hangers inside of both doors for easy student access.
- Cabinet construction is 3/4" (19 mm) thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in Wenger standard colors.
- Edge banding is 1/8" (3 mm) thick PVC.
- Thru-bolt construction on all door hardware.
- Cabinet has locking double doors.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN.
- Cabinet is shipped assembled.
- Ten-year warranty.

Accessories

- Small Bins (yellow) with mounting brackets, set of 4.
- Medium Bins (red), set of 4.
- Large Bins (blue), set of 2.



Miscellaneous Information

Technical Sheets are included for:

- Percussion Workstation
- Music Sorting Rack
- Mobile Folio Cabinets
- ORFFgarage®
- ORFFmobile®

TECHNICAL SHEET

Wenger®

Your Performance Partner

Percussion Workstation

- Basic Percussion Workstation 147G002._ 230 lbs (104 kg).
- Deluxe Percussion Workstation with all accessories 147G001._ 251 lbs (113 kg) 230 lbs.
- Workstation is 48-1/8" wide x 24-1/2" deep x 35-3/4" high (122 x 62 x 91 cm).
- Workstation construction is 3/4" (19 mm) thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in Wenger standard colors.
- Edging is 1/8" (3 mm) radiused PVC.
- Workstation top is 3/4" (19 mm) industrial grade composite wood with industrial grade carpet on top.
- Plywood bottom is 3/4" (19 mm) with four 4" (10 cm) rubber swivel casters that make it easy to move from room to room.
- Workstation has four foam-lined 21-1/2" wide x 19-3/4" deep x 3-1/2" high (55 x 50 x 9 cm) drawers constructed of 18 gauge steel with built-in handle.
- Four 23" wide x 23" deep (58 x 58 cm) compartments, 3-1/2" (9 cm) high and 15-3/4" high (40 cm).
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Shipped assembled.
- Ten-year warranty.

Accessories

Pop-up Music Desk

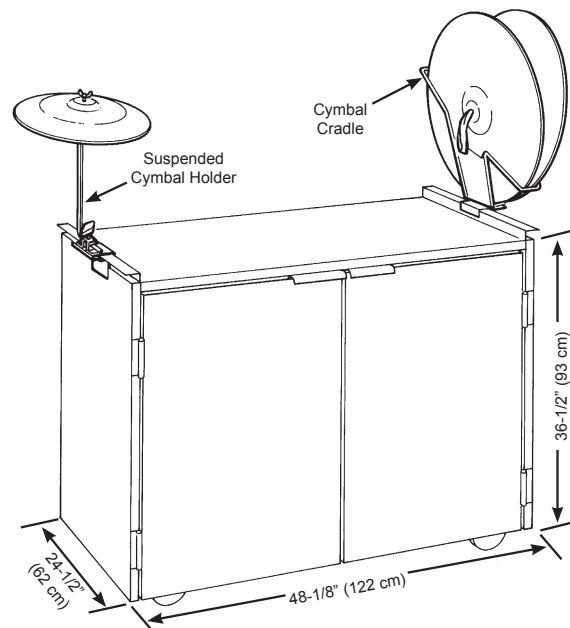
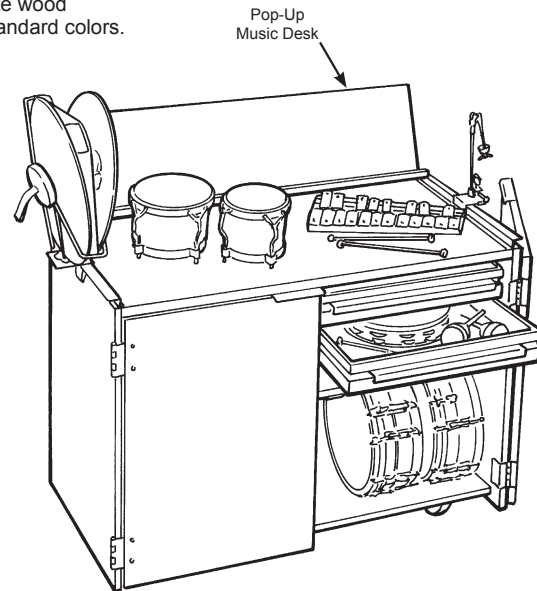
- 147H510._ 17.7 lbs. (7.7 kg).
- Holds music for three or more people.
- Desk is 46-1/8" wide x 1-7/16" deep x 10-3/4" high (117 x 4 x 27 cm).
- Desk construction is 3/4" (19 mm) thick industrial grade composite wood with polyester laminate finish in Wenger standard colors.
- Desk permanently attaches to work top and folds flat when not in use.

Suspended Cymbal Holder

- 147H014 2 lbs. (0.9 kg).
- Adjustable vinyl-coated holder clamps to cabinet edge.

Cymbal Cradle

- 147H012 7 lbs. (3 kg).
- Holds up to 22" (56 cm) cymbals in ready-to-use position.
- Vinyl-coated cradle, which protects and holds cymbals quietly, clamps to the cabinet edge.



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TECHNICAL SHEET

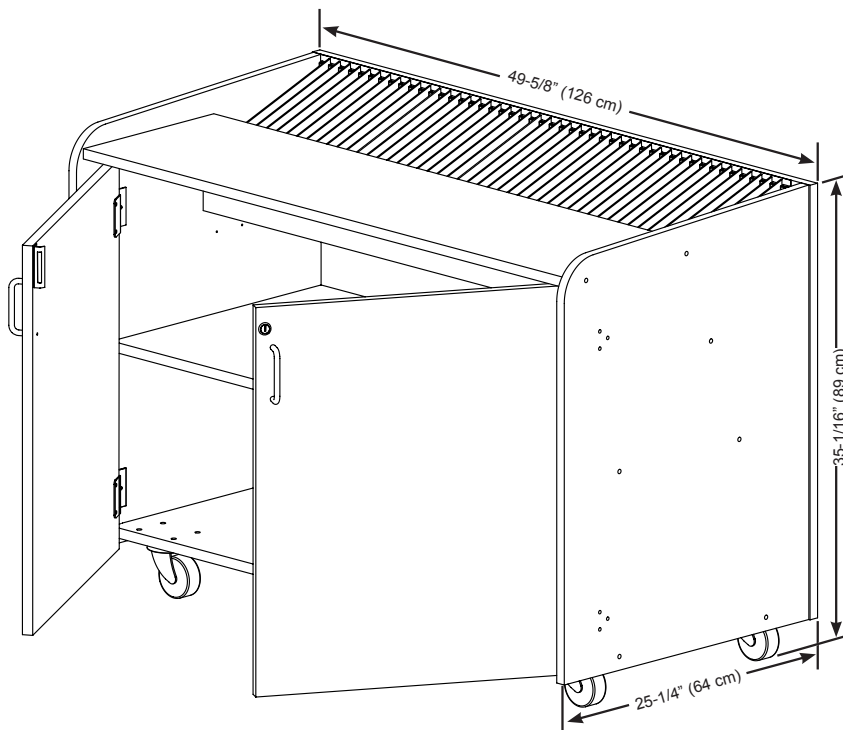


Music Sorting Rack

- 173E050_ 165 lbs. (74 kg).
- Contains 46 vertical slots for individual parts.
- Slot dimension: 1" thick x 10-1/2" deep x 9" high (2.54 x 26 x 23 cm).
- 1/8" (3 mm)-hardboard dividers keep individual parts separated.
- Cabinet construction is 3/4" (19 mm) thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in Wenger standard colors.
- 1/8" (3 mm)-thick PVC edgebanding.
- Instrumentation label provided for each slot.
- Includes four swivel casters.
- Includes two lower storage compartments for additional music.
- Cabinet is shipped assembled.
- Overall dimensions: 49-5/8" wide x 25-1/4" deep x 35-1/16" high (126 x 64 x 89 cm).
- Optional full-length wood door - same construction as wall panels.
 - Doors must be included at the time of ordering as they can not be installed later.
 - Doors include heavy-duty 5-knuckle institutional ANSI/BHMA A156.9, Grade 1 hinge, through - bolted to cabinet wall.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Ten-year warranty.

Accessories

- 173A052 25 lbs. (11 kg) lockable industrial grade composite wood doors.



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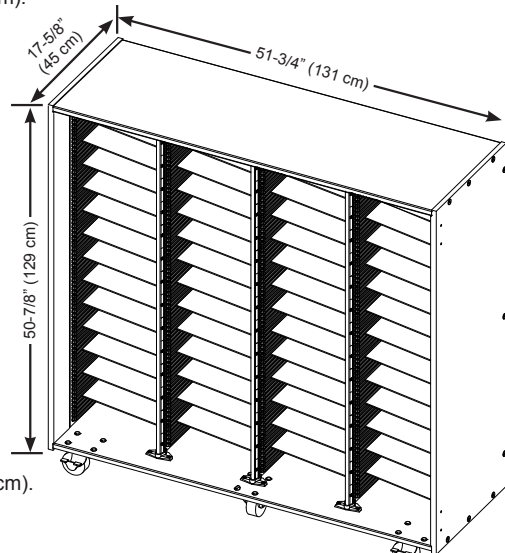
TECHNICAL SHEET



Your Performance Partner

Mobile Folio Cabinets

- Wall panels and optional lockable doors are 3/4" (19 mm) thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in Wenger standard colors.
- Shelves are 1/8" (3 mm) thick tempered hardboard.
- Choral shelves are 11-1/2" wide x 12-1/2" deep (29.2 x 31.8 cm) and Band/Orchestra shelves are 14-1/4" wide x 14-1/2" deep (36.2 x 36.8 cm).
- Available in 1", 1-1/2", 2", 2-1/2", and 3" (25, 38, 51, 63, and 76 mm) shelf height openings to accommodate various thicknesses of folios.
- Shelf support columns are extruded aluminum with black powder-coat paint finish.
- Each cabinet includes four 3" (7.6 cm) swivel casters (two locking) to make transport easy. Four column choral cabinet contains six swivel casters for added support when transporting.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Number strips included for all shelf spacing options.
- Cabinets are shipped fully assembled.
- Wall mounting bracket included for tall folio cabinets.
- Ten-year warranty.



4-Column Choral Folio Cabinet

Mobile Choral Folio Cabinets:

146M022, Two-column Choral Folio Cabinet:

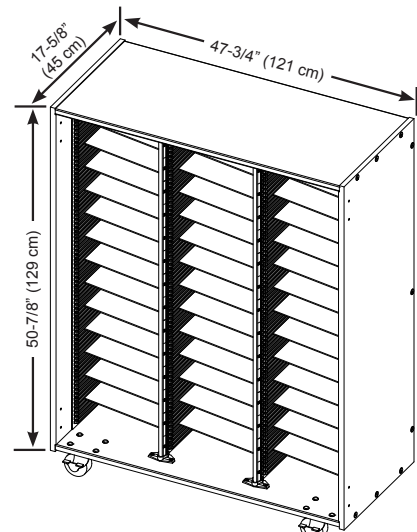
- Cabinet only 125 lbs. (57 kg), with doors: 149 lbs. (68 kg) (based on 1-1/2" shelf spacing).
- Cabinet is 26-3/4" wide x 17-5/8" deep x 50-7/8" high (68 x 45 x 129 cm).

146M023, Three-column Choral Folio Cabinet:

- Cabinet only 169 lbs. (77 kg), with doors: 205 lbs. (93 kg) (based on 1-1/2" shelf spacing).
- Cabinet is 39-7/16" wide x 17-5/8" deep x 50-7/8" high (100 x 45 x 129 cm).

146M024, Four-column Choral Folio Cabinet:

- Cabinet only 216 lbs. (99 kg), with doors: 298 lbs. (135 kg) (based on 1-1/2" shelf spacing).
- Cabinet is 51-3/4" wide x 17-5/8" deep x 50-7/8" high (131 x 45 x 129 cm).



3-Column Band/Orchestra Folio Cabinet

Mobile Band/Orchestra Folio Cabinets:

146M032, Two-column Band/Orchestra Folio Cabinet:

- Cabinet only 147 lbs. (67 kg), with doors: 178 lbs. (81 kg) (based on 1-1/2" shelf spacing).
- Cabinet is 32-7/16" wide x 17-5/8" deep x 50-7/8" high (82 x 45 x 129 cm).

146M033, Three-column Band/Orchestra Folio Cabinet:

- Cabinet only 205 lbs. (93 kg), with doors: 250 lbs. (114 kg) (based on 1-1/2" shelf spacing).
- Cabinet is 47-3/4" wide x 17-5/8" deep x 50-7/8" high (121 x 45 x 129 cm).

Shelf Spacing Capacity

Cabinet	Shelf Spacing				
	1"	1-1/2"	2"	2-1/2"	3"
2-Column Choral	84	56	42	34	28
3-Column Choral	126	84	63	51	42
4-Column Choral	168	112	84	68	56
2-Column Band/Orchestra	84	56	42	34	28
3-Column Band/Orchestra	126	84	63	51	42

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TECHNICAL SHEET

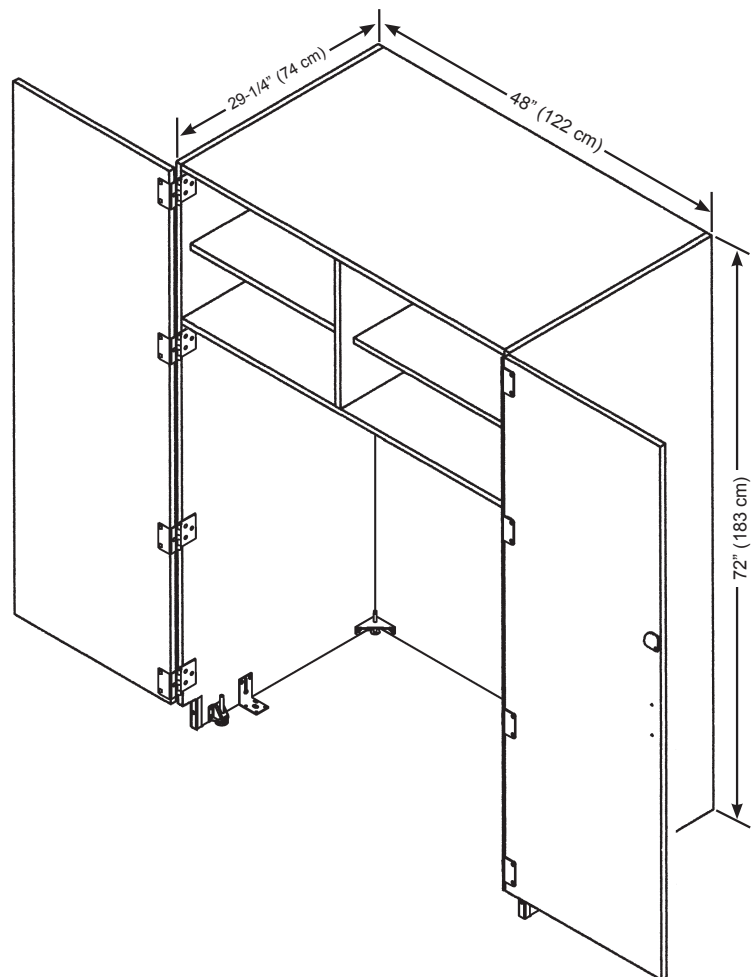
Wenger®
Your Performance Partner

ORFFgarage®

- 168E001, 431 lbs (194 kg).
- Comes with four adjustable shelves for storage of various sizes of Orff instruments.
- Overall dimensions: 48" wide x 29-1/4" deep x 72" high (122 x 74 x 183 cm).
- Floorless lower compartment is designed exclusively for Wenger ORFFmobile.
- Cabinet construction is 3/4" (19 mm) thick industrial grade composite wood with no added formaldehyde and polyester laminate finish in Wenger standard colors.
- Edge banding is 1/8" (3 mm) thick PVC
- Square tubular steel frame in bottom of cabinet provides rigidity and strength.
- Includes locking double doors.
- Thru-bolt construction on all door hardware.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Shipped assembled.
- Ten-year warranty.

ORFFgarage instrument storage capacity:

- 2 - Alto Metallophones
- 2 - Soprano Metallophones
- 2 - Soprano Xylophones
- 5 - Soprano Glockenspiels
- 5 - Alto Glockenspiels



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TECHNICAL SHEET

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ORFFmobile®

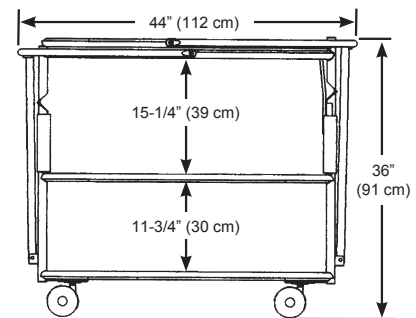
- 167D001 - 106 lbs (48 kg).
- Overall dimensions: Folded: 44" wide x 24-1/2" deep x 36" high (112 x 62 x 91 cm).
 Unfolded: 113" wide x 24-1/2" deep x 35" high (287 x 62 x 89 cm).
- Unique folding design stores instruments compactly and unfolds to provide proper playing surfaces for Orff instruments.
- Includes four molded polyethylene surfaces for playing and storage that can be positioned different heights for various sizes of Orff instruments.
- Frame is constructed of 0.875" (2.2 cm) round tubular steel frame in black powder-coat paint finish.
- Four black neoprene 4" (10 cm) swivel casters.
- Foam-padded leg supports serve as hand grips when in folded position, and also prevent damage to paint finish.
- Includes four 1-3/4" diameter mallet holders.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Assembly of wheels required by customer.
- Five-year warranty.

Orff instrument capacity*:

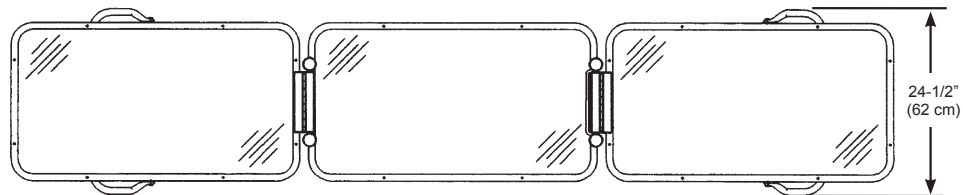
Folded: 1 - Bass Metallophone or Xylophone
 2 - Soprano or Alto Metallophones or Xylophones

Unfolded: 1 - Bass Metallophone or Xylophone
 2 - Soprano Metallophones or Xylophones
 2 - Alto Metallophones or Xylophones

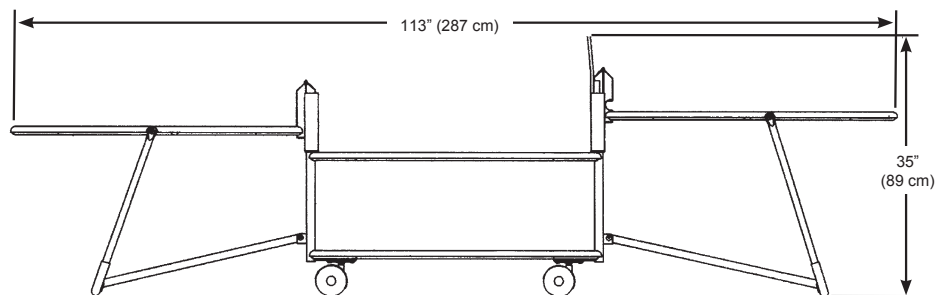
*NOTE: Each outer tray will hold four Soprano or Alto Glockenspiels in place of Metallophones or Xylophones in unfolded position.



ORFFmobile in Folded Position



Top View



Side View

2017-01

AUDITORIUM AND THEATRE SPACES



Wenger®
Your Performance Partner

AUDITORIUM AND THEATRE SPACES



ACOUSTICAL SHELL ENCLOSURES

In addition to being visually stunning, Wenger Acoustical Shells dramatically improve the sound projected to the audience and reflect sound back to performers – vital to ensemble performance. The mobile design sets up quickly and stores compactly.



ACOUSTICAL TREATMENTS

Whether you're planning a new facility or renovating an existing one, Wenger ceiling clouds and acoustical panels are sure to enhance the acoustics of any space.



ORCHESTRA PIT FILLER / STAGE EXTENSIONS

Wenger Pit Fillers are incredibly strong and durable yet easy to set up. The acoustically dampened decks fit snugly against the stage to create an integrated surface that is extremely quiet.



STAGING AND SEATED RISER SYSTEMS

From a simple stage or seated riser to a multifaceted system that can be set up in a vast array of configurations in all kinds of locations, Wenger has the ideal solution for any event.



PORTABLE AND FIXED AUDIENCE SEATING SYSTEMS

Wenger offers a full-range of fixed and portable theatre seating options for any performing arts venue. Ergonomically designed for quiet comfort with superb aesthetics and durability. Choose from luxurious upholstered fixed seats to comfortable, affordable portable chairs.



MAKEUP STATIONS

Wenger Makeup Stations were designed based on the needs of the performer. Wenger offers both the Studio® Makeup Station that comes ready to install and the Backstage® Makeup Station, a portable self-contained unit that turns any room into a dressing room.



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Acoustical Shell Enclosures



Acoustical Shell Enclosures

Incredible acoustics and sophisticated looks in the auditorium and throughout the facility.



Diva® Full-Stage Acoustical Shell

An investment in Diva acoustics will reward you the first time you hear the remarkable difference. Diva is a beautiful centerpiece for your stage that is engineered to last for years and years.

Diva is also incredibly easy to use, so you can use it more often. No other acoustical shell gives you so much long-term value.



Maestro® Orchestra Shells

The SECOA Maestro full-stage orchestra shell is a welcome addition to our acoustical product line. Maestro is a cost-effective solution packed with features, conveniences and performance aesthetics for your venue.

The Maestro lives up to its name delivering impressive full-stage acoustics, while creating live entertainment environments for performances at an affordable price.

Legacy® Acoustical Shells

The latest Wenger technology gives you three attractive, effective acoustical shell options to fit your application and budget. The Legacy system can be set up quickly and easily – by just one person. Its mobility allows you to acoustically transform almost any space within a facility into a performance venue.

We pioneered acoustical shell design, so it's no surprise that our honeycomb core panel construction delivers enhanced acoustics to both the ensemble and the audience. When the performance is over, Legacy acoustical shells take down in no time and nest together compactly.



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Acoustical Shell Enclosures

Overview

Diva® Shell Wall Towers (Rolling/Movable)

- Shell Towers are designed to move from storage to performance positions — and nest one within the other for compact storage.
- Shell Towers are constructed of materials to effectively reflect sound.
- Diva Shell models incorporate access doors for personnel and equipment access to the performance area.
- Diva towers are moved with a Manual Wheeled Mover or Electric Air Transporter which makes consistent shell placement an easy process and which also greatly reduces wear and damage to the floor.

Diva Shell Ceiling Panels

- Each row of shell ceilings is designed to be suspended from one pipe batten or line set.
- Storage — ceilings are designed to rotate to a vertical position for storage in the stage loft area. Ceiling panels can be specified to be removable to free up additional line sets.
- Give proper consideration to shell ceiling weight and rigging line set capacity.
- Lighting — shells can be lit with the following:
 - a. Integrated light fixtures within the shell ceiling.
 - b. Existing or standard stage lighting — ceilings can be designed to fit between existing lighting.
- Wenger works to integrate Diva ceiling rows with existing or new theatrical rigging. Rows of ceilings rotate to the vertical position for storage and lock into the performance position for fast setup.
- Ceiling aluminum trusses provide space for an ETL rated integrated electrical raceway that supplies power for optional lighting packages.

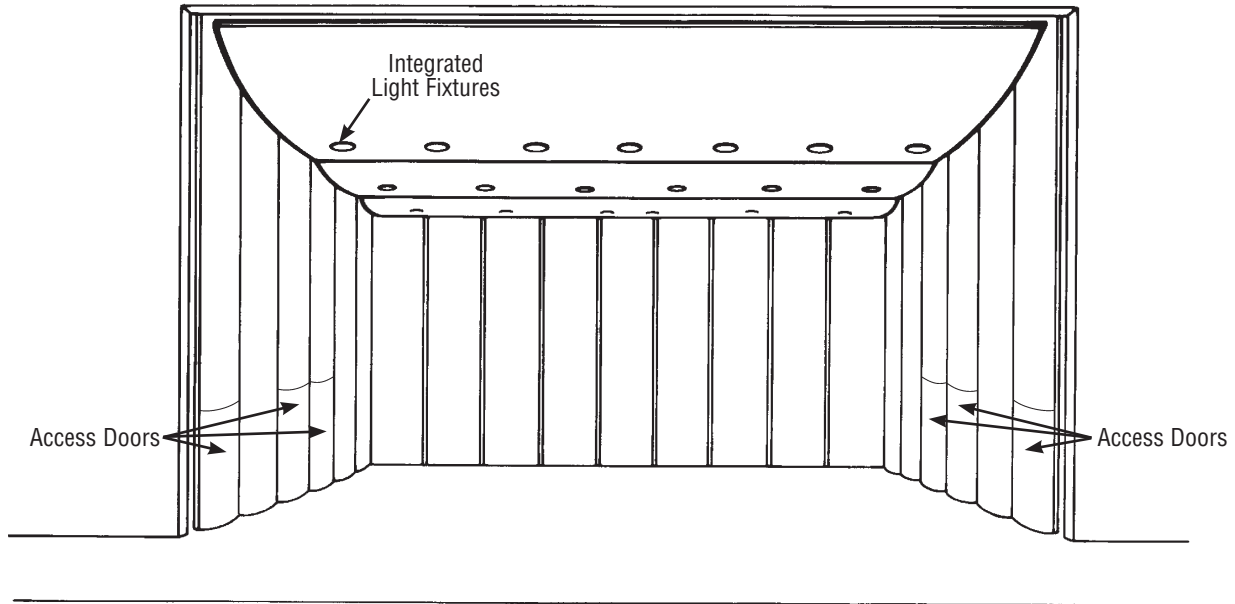
Diva Acoustical Shell Features

- The design, flexibility and extensive finish options of the Diva Acoustical Shell provide a customized shell at an affordable price.
- A combination of shell towers and ceiling rows form a full-stage acoustic enclosure.
- The modular design allows for flexible configurations that can fit ensembles and performances of all sizes.
- Rigid composite panels improve acoustics. Curved panel surfaces reflect and diffuse sound for optimum acoustical performance.
- Two standard tower widths:
 - 10' (3.05 m) 4' (1.22 m) center and 3' (0.91 m) wings
 - 12' (3.66 m) 4' (1.22 m) center and 4' (1.22 m) wings.
- Towers can be sized to your specification, with heights from 16' to 32' (4.88 m to 9.75 m).
- Custom towers heights are available up to 40' (12.19 m).
- A variety of painted, plastic laminate and wood finishes help to make the Diva Acoustical Shell aesthetically pleasing and visually define a performance area.
- The Diva Acoustical Shell is designed to significantly reduce setup time.
- The Diva Acoustical Shell tower frames and ceiling trusses are manufactured with extruded aluminum and steel weldments.
- Diagonal bracing between the tower frame and the base distributes weight over several areas of the tower assembly.
- Access Doors are available including double doors that accommodate a grand piano.
- Towers nest together for compact storage with minimal footprint — in alcove, stage wing or backstage.

Acoustical Shell Enclosures

Typical Drawings

Front Elevation of Typical DIVA Acoustical Shell



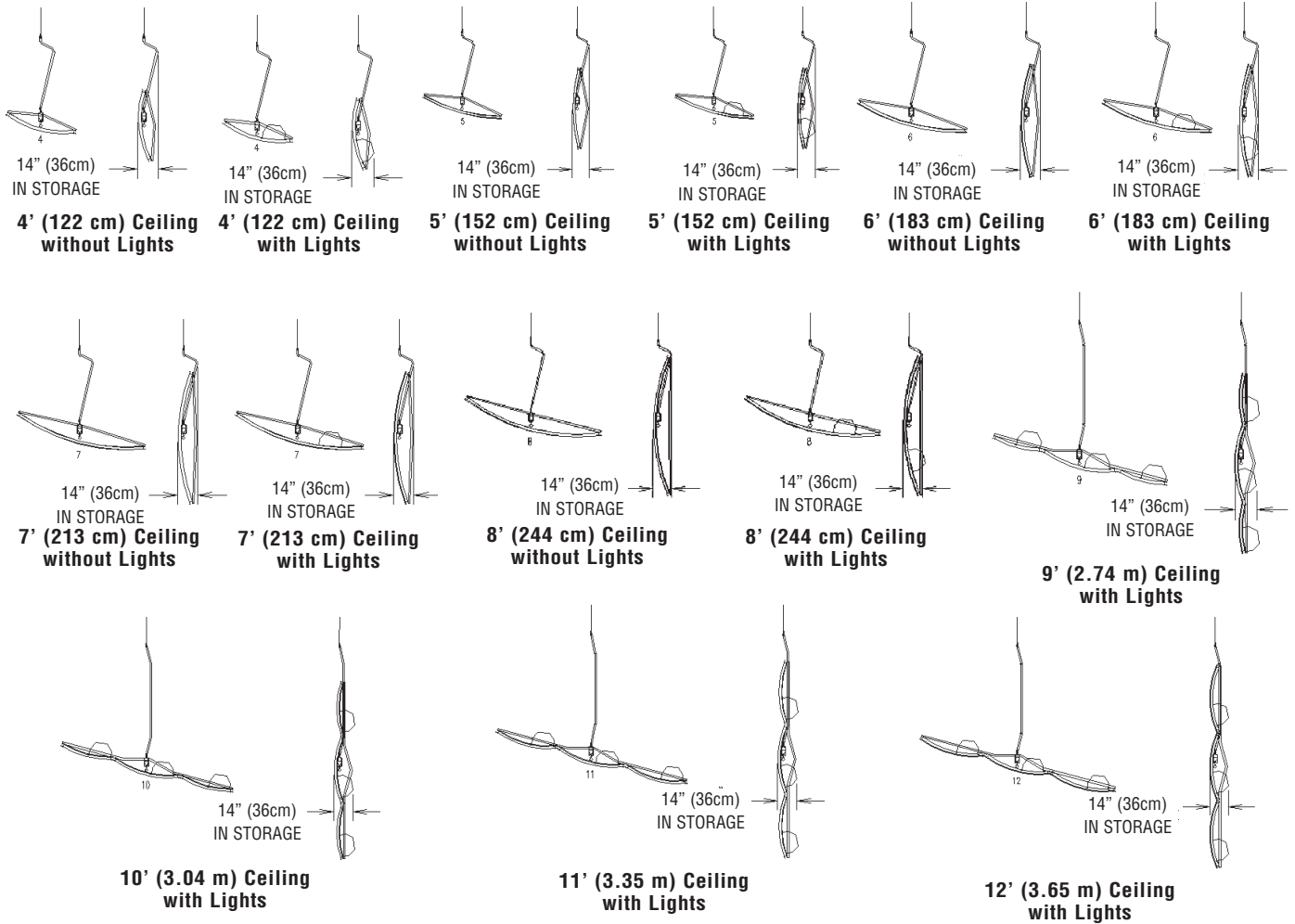
Acoustical Shell Enclosures

Typical Drawings

Symbols for Standard Diva Ceiling Panels

Stage rigging not supplied by Wenger.

All symbols are available, please contact Wenger.



Notes:

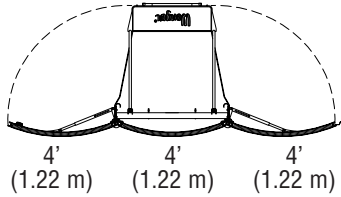
1. Ceiling assemblies will weigh about 4 pounds (1.81 kg) per square foot.
2. Each light assembly will weigh about 25 pounds (11.34 kg).
3. Panels that are painted will be constructed of 3/16" (0.47 cm) hardboard on both sides of 1-1/2" (3.81 cm) paper honeycomb.
4. Panels that are veneered will be constructed of 1/4" (0.63 cm) veneered MDF plywood on face side of 1-1/2" (3.81 cm) paper honeycomb. Back is 3/16" (0.47cm) hardboard painted black.

Acoustical Shell Enclosures

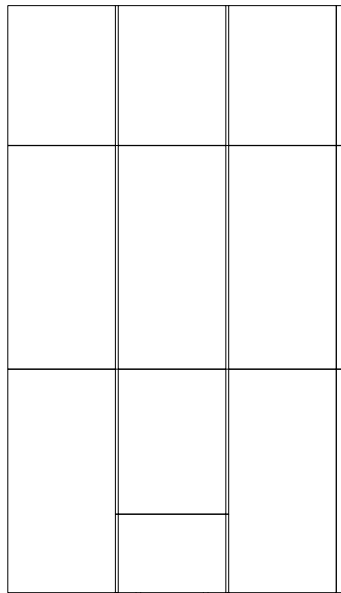
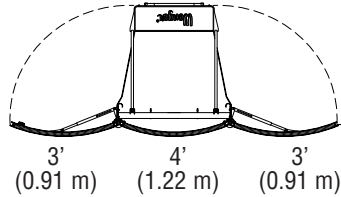
Typical Drawings

Diva Shell Towers

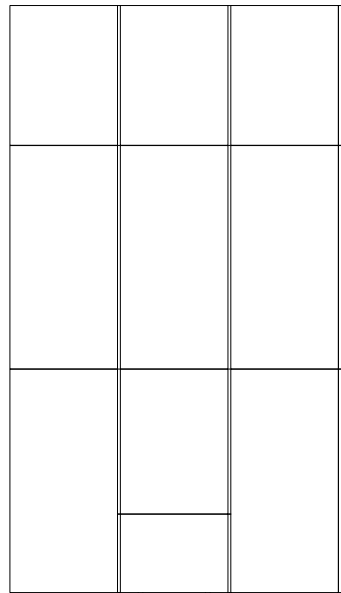
Top View 12' (3.65m) Tower



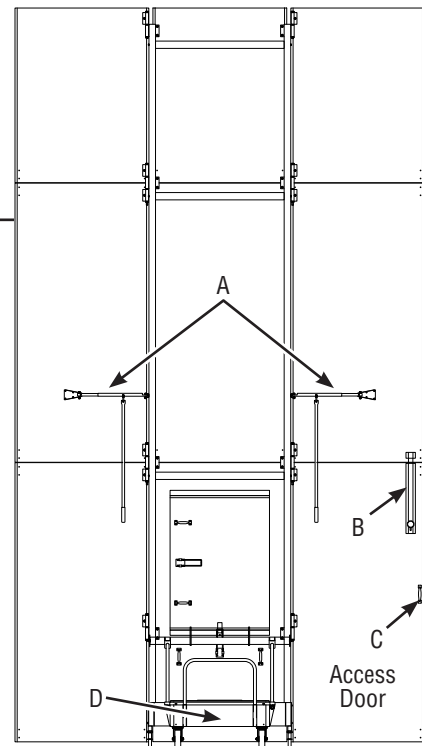
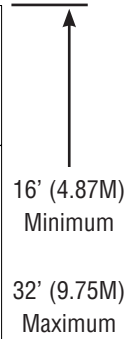
Top View 10' (3.04m) Tower



Front Elevation



Front Elevation



Rear Elevation

Telescoping wing-stays lock wings into performance and storage positions (A).

The door lock (B) and door handle (C).

The counterweighted base (D) provides shell stability when shell is stationary or being moved with on stage.

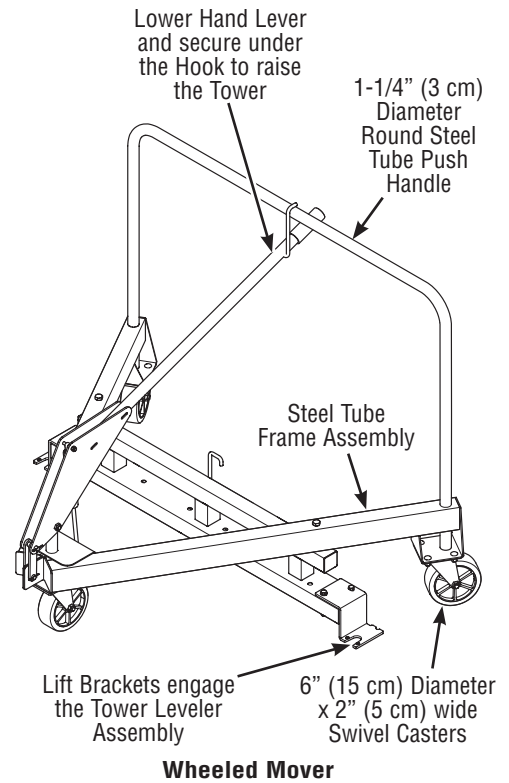
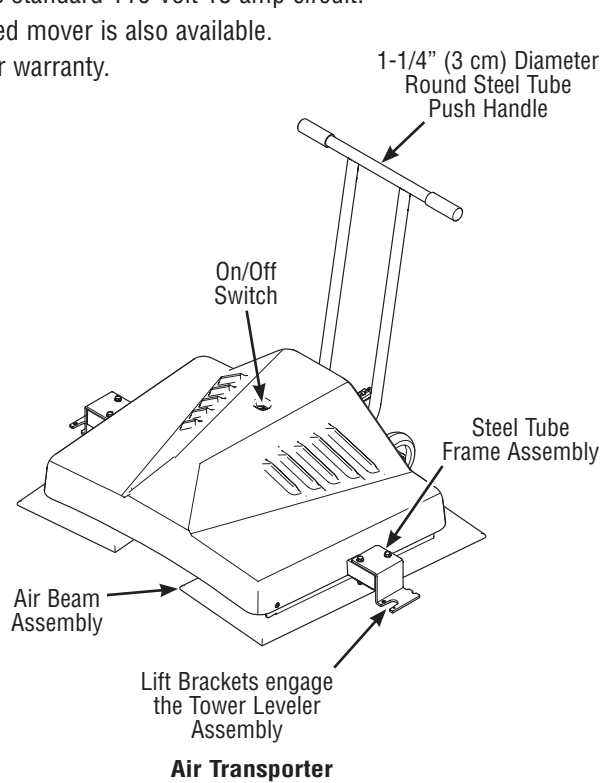
The shell rests on leveling pads (E) for uniform set-up on uneven floors.

Acoustical Shell Enclosures

Application Information

Air Transporters

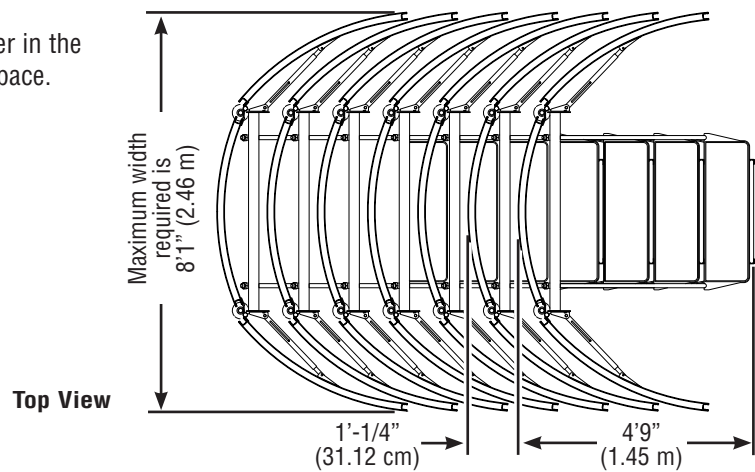
- A separate air transport unit makes lifting and transporting the towers an easy job.
- A cushion of air carries most of the tower's weight, which prevents damage to stage floor.
- Moves the tower easily in any direction, so it is easier to position.
- Requires standard 110-volt 15 amp circuit.
- A wheeled mover is also available.
- Five-year warranty.



The Air Transporter lifts majority of the tower weight and maneuvers shell in all directions for exact placements and easy mobility to and from storage.

Diva Towers in Storage

Top view showing how Diva towers nest together in the storage position, minimizing required storage space.



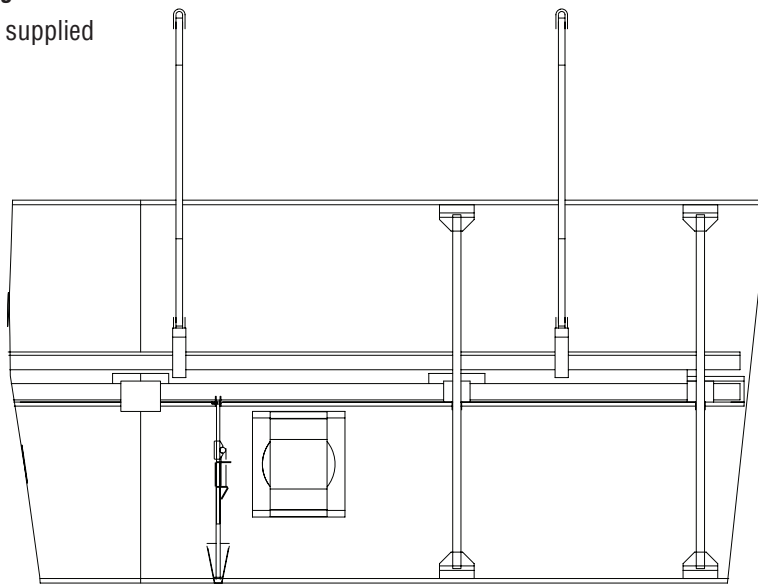
4'9" (1.45 m) first tower, add 1'-1/4" (31.12 cm) for each additional tower.

Acoustical Shell Enclosures

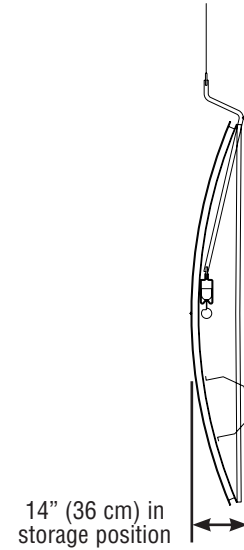
Application Information

Diva Shell Ceiling Panels

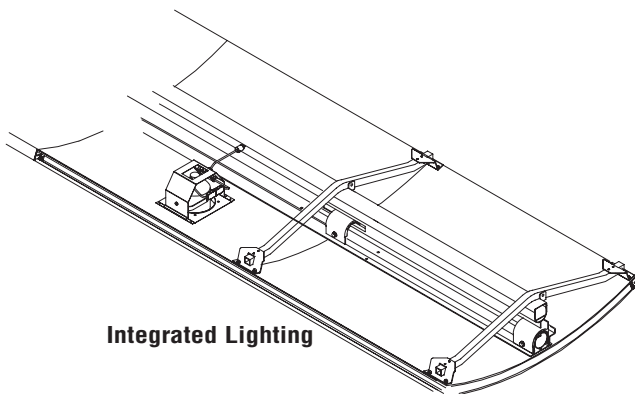
Stage rigging not supplied by Wenger.



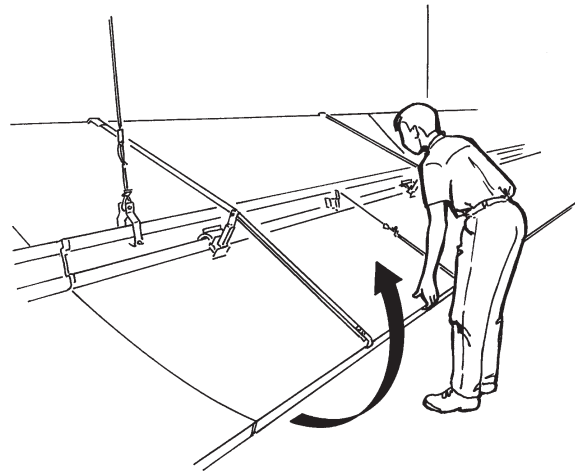
Back View of Ceiling Panel in Storage Position



14" (36 cm) in storage position

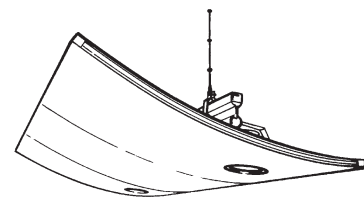
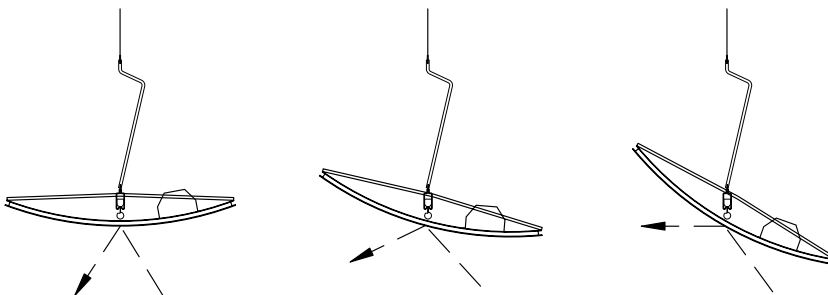


Integrated Lighting



Ceiling Performance Angle

The angle of the ceilings can be adjusted for different acoustical requirements.



Shell ceiling in performance position.

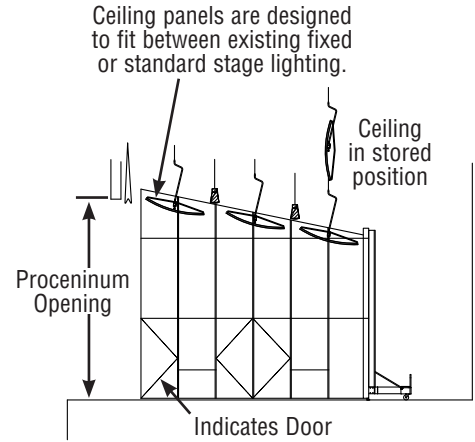
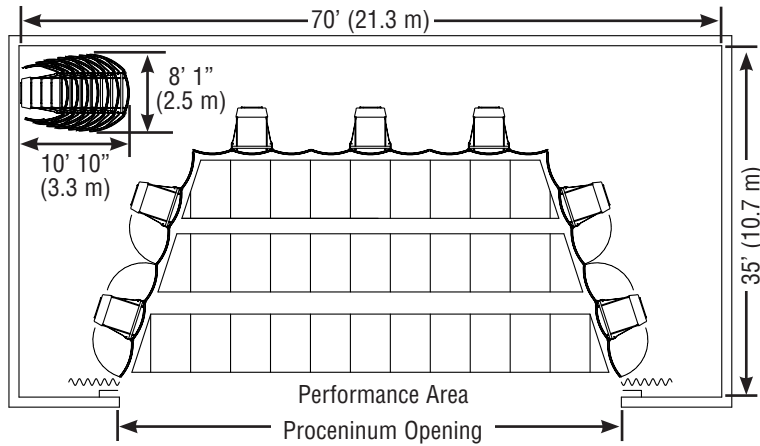
Ceilings placed in a more horizontal position will return more sound energy to the performers on stage.
Ceilings placed at a steeper angle will reflect more sound energy to the audience.

Acoustical Shell Enclosures

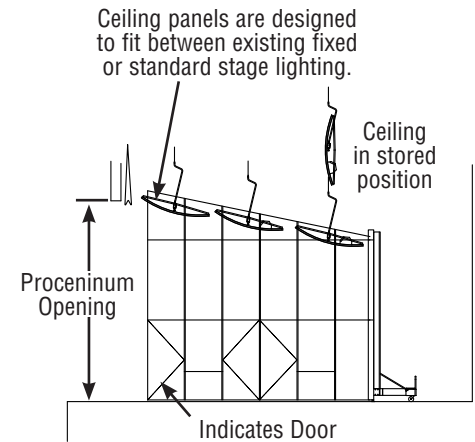
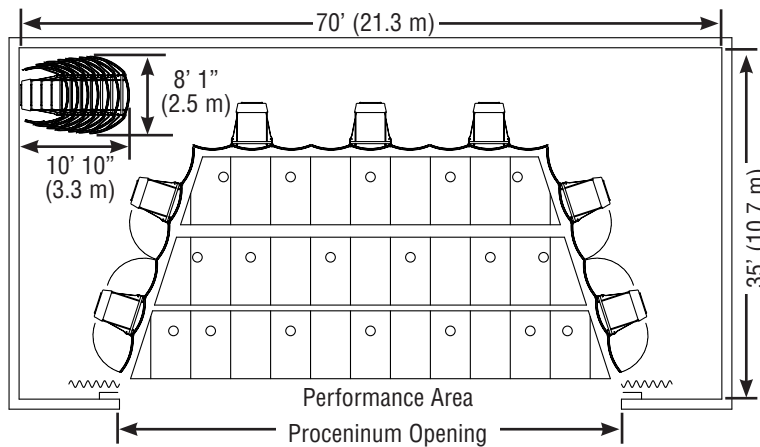
Typical Drawings

Typical Diva Layout for a 70' x 35' (21.3 x 10.7 m) Performance Area

Contact Wenger for a layout designed to fit your facility.



Section through center line DIVA full stage acoustical enclosure



Section through center line DIVA full stage acoustical enclosure

Acoustical Shell Enclosures

Application Information

SECOA® Maestro® Full-Stage Acoustical Shells

The SECOA Maestro full-stage orchestra shell is a welcome addition to our acoustical product line. Maestro is a cost-effective solution packed with features, conveniences and performance aesthetics for your venue. The Maestro lives up to its name delivering impressive full-stage acoustics, while creating live entertainment environments for performances at an affordable price.

- The SECOA Maestro is a cost-effective solution for any performance space requiring an acoustical enhancement
- Finishes available include:
 - High Pressure Laminate with matching stained/painted panel edges
 - Hardwood Veneer stained and finished to match space requirements
 - Painted Panels – provide either as a primed panel for your painting contractor to finish, or a finish painted panel ready for a show.
- Low-gloss panel finishes recommended to prevent adverse reflection of stage lighting
- Side towers feature doors for stage access for musicians and performers
- Shell towers are easily moved into performance position and moved back into storage via the SECOA self-contained tower mover. Towers stack together to reduce storage space required.
- Ceiling panels with the optional integrated lighting fixtures feature tip switches making storing of the ceilings fool proof, lighting will not turn on while ceilings are in storage.
- 360° rotating light fixture housing for ceiling panels.
- Incandescent and LED lighting options available.
- Ceiling panels adjust in 5° increments.
- Ceiling panels store easily in rigging fly loft for storage. No tools are required to tilt ceilings.
- Panels are constructed with hardwood edging, a rigid honeycomb interior, and a hard panel skin for superior sound quality and durability.



Acoustical Shell Enclosures

Overview

The latest Wenger technology gives you three attractive, effective portable acoustical shell options to fit your application and budget. The Legacy® Acoustical Shells can be set up quickly and easily — by just one person.

It's mobility allows you to acoustically transform almost any space within a facility into a performance venue.

We pioneered acoustical shell design, so it's no surprise that our honeycomb core panel construction delivers enhanced acoustics to both the ensemble and the audience. When the performance is over, Legacy acoustical shells take down in no time and nest together compactly.

	Legacy® Basic	Legacy® Classic	Legacy® Select
Usage	Portable shell that allows any space to become a performance environment Improved projection to the audience		Portable shell designed to be used primarily with an overhead ceiling system for on-stage use.
Where to Use	Small auditoriums, gymnasiums, cafeteriums and recital halls		Small auditoriums and recital halls
Components	Lift mechanism with crank Acoustical wall towers Fold down canopy for storage		Acoustical wall towers Use with ceiling system for optimum performance
Shell Mobility	Integrated non-marring casters Moves easily by one person		
Features	Flat panel design, with tapered or rectangular 36" (91 cm) high canopy Folds flat and nests for storage Portable shell on casters 78 square feet (7.2 m2) of shell coverage, 7" (18 cm) gap from floor with protruding legs in front of shell In the storage position, fits through a 36" (91 cm) wide by 80" (203 cm) high door opening. Canopy adjusts at 45, 60, 75 and 90 degree angles	Flat panel design, with tapered or rectangular 54" (1.4 m) high canopy Folds flat and nests for storage Portable shell on casters 90 square feet (8.4 m2) of shell coverage 2" (5 cm) gap from floor In the storage position, fits through a 36" (91 cm) wide by 80" (203 cm) high door opening. Canopy adjusts at 45, 60, 75 and 90 degree angles	Curved panels for maximum acoustical performance Foldable top panel for storage Removable bottom panel for nesting 60 square feet (5.6 m2) of shell coverage at 12' (3.7 m) height 2" (5 cm) gap from floor In the storage position, fits through a 36" (91 cm) wide by 80" (203 cm) high door opening.
Height	13' 3" (4 m)	15' 2" (4.6 m)	11' 6" (3.5 m)
Storage	Shells nest together for storage, each unit adds 10" (25.4 cm)	Shells nest together for storage, each unit adds 10-5/8" (26.9 cm)	Towers nest together for storage, each unit adds 21" (52.5 cm)
Panel Material	Upper Panels: Flat composite panel, 1" (2.5 cm) thick with lightweight aluminum edging Lower Panel: Thermofused laminated particle board, 3/4" (2 cm) thick 6' (1.8m) wide panel	Flat composite panel, 1" (2.5 cm) thick with lightweight aluminum edging 6' (1.8m) wide panel	Curved composite panel, 1" (2.5 cm) thick with thermofused laminate finish Lightweight aluminum edging 6' (1.8 m) wide panel
Finishes	Oyster laminate only	Three solid color laminates: Oyster, Platinum and Warm Sand	Any Sherwin Williams paint color or Wilsonart laminates

Acoustical Shell Enclosures

Subject Head

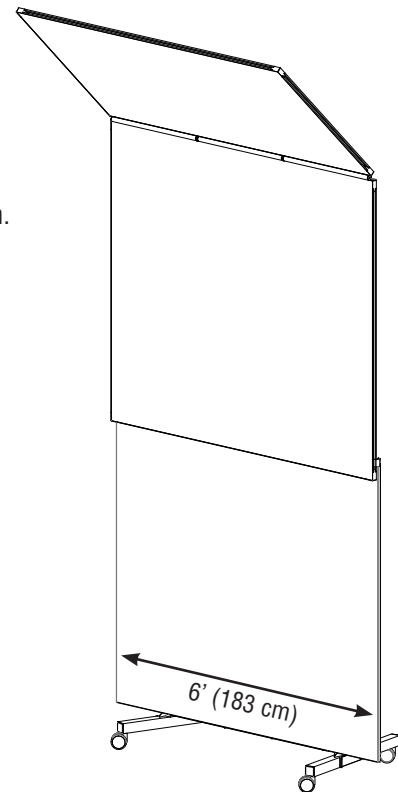
Legacy Basic Acoustical Shell

Performance Requirements

- Legacy units promote excellent ensemble and enhance acoustical projection toward the audience
- Add additional shells to cover larger areas

Construction

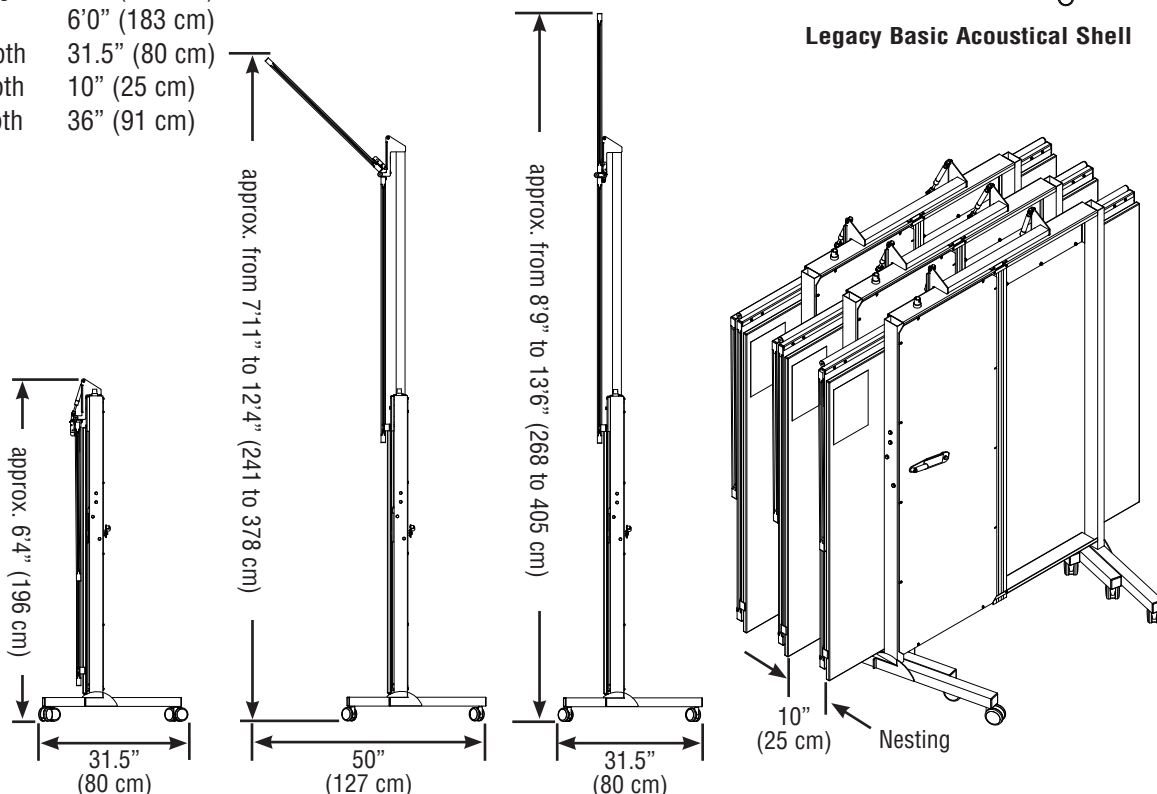
- Upper panels are flat in standard 1" (2.5 cm) thick honeycomb core construction.
- Lower fixed panel is constructed of 3/4" (2 cm) thick composite laminated wood with edgbanding
- All panels are 6' (1.8 m) wide
- Easy, intuitive lift mechanism for raising and lowering shell
- Canopy folds flat for storage, and middle panel overlaps bottom panel
- Legs protrude in front of shell to provide counterweighted base design
- No kicker panel, bottom panel rests 7" (18 cm) from floor
- Canopy is 36" (91 cm) high providing less coverage than Legacy Classic model
- Fully extended height is 13' 3" (4 m)
- Ships partially assembled
- Available in Oyster finish only
- Canopy adjusts to 45, 60, 75 and 90 degree angles



Legacy Basic Acoustical Shell

Legacy Basic Acoustical Shell Data:

Max Height	13'6" (405 cm)
Storage Height	6'4" (196 cm)
Width	6'0" (183 cm)
Storage Depth	31.5" (80 cm)
Nesting Depth	10" (25 cm)
Canopy Depth	36" (91 cm)



Acoustical Shell Enclosures

Subject Head

Legacy Classic Acoustical Shell

Performance Requirements

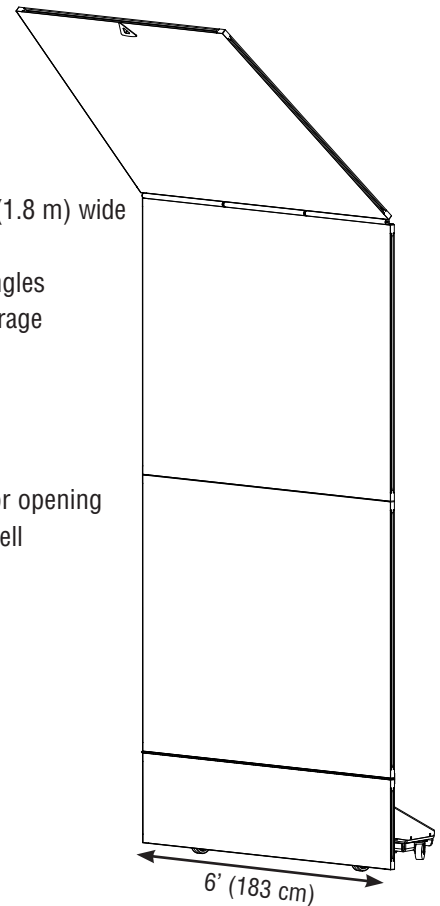
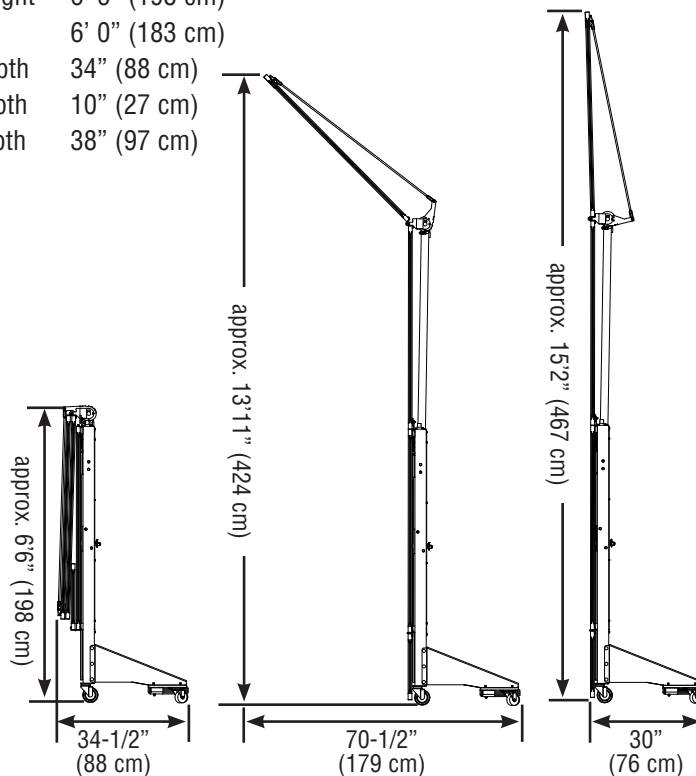
- Legacy units promote excellent ensemble and enhance acoustical projection toward the audience
- Add additional shells to cover larger areas

Construction

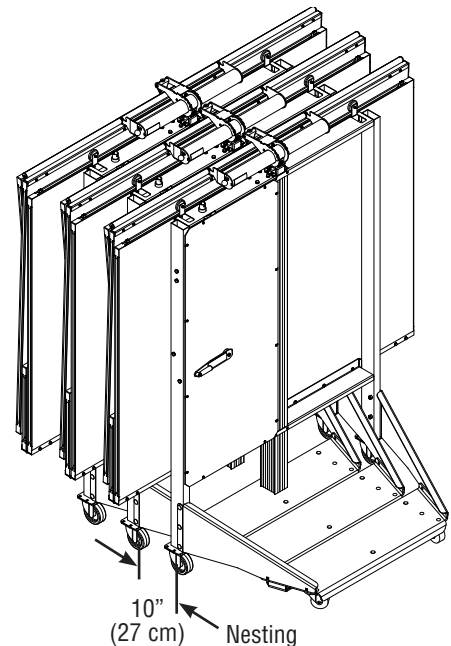
- Panels are flat in standard 1" (2.5 cm) thick, honeycomb core construction, 6' (1.8 m) wide
- Improved lift mechanism to raise and lower shell
- Canopy folds flat for storage and is adjustable to 45, 60, 75 and 90 degree angles
- Kicker panel provides coverage within 2" (5 cm) of floor, and folds up for storage
- All panels fit flush with no overlap shadows
- No unsightly exposed fasteners
- Fully extended height is 15' 2" (4.6 m)
- Canopy is 54" (137 cm) high and available in tapered or rectangular design
- In storage position, unit fits through 36" (91 cm) wide by 80" (2 m) high door opening
- Includes counterweighted base system, with no legs protruding in front of shell
- Available in solid Oyster or Harvest Maple wood grain laminate color finishes
- Units nest for storage

Legacy Classic Acoustical Shell Data:

Height Canopy at 45 degrees	13' 11" (424 cm)
Max Height	15' 2" (462 cm)
Storage Height	6' 6" (198 cm)
Width	6' 0" (183 cm)
Storage Depth	34" (88 cm)
Nesting Depth	10" (27 cm)
Canopy Depth	38" (97 cm)



Legacy Classic Acoustical Shell



Acoustical Shell Enclosures

Application Information

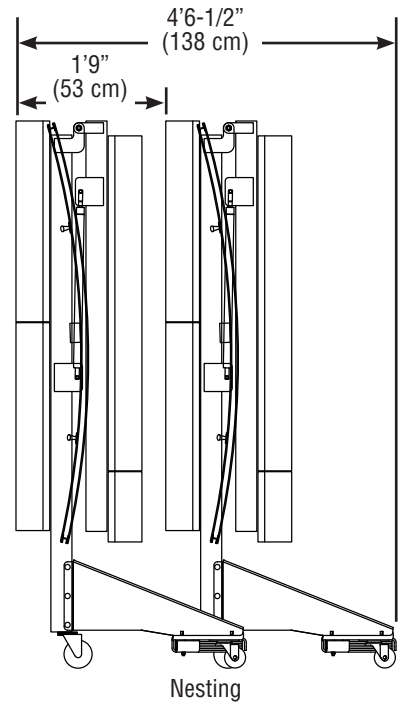
Legacy Select Acoustical Shell

Performance Requirements

- Legacy units promote excellent ensemble and enhance acoustical projection toward the audience
- Add additional shells to cover larger areas

Construction

- Curved 1" (2.5 cm) thick panels to provide superior cross-communication of sound
- Use with overhead ceiling system for optimum acoustical performance
- Counterweighted base system
- Panels are tower design, 6' (1.8 m) wide
- Top panel folds for storage, and includes lift assists to raise and lower
- Bottom panel is removable for nesting and stores on back of tower frame
- Standard height is 11' 6" (3.5 m)
- In storage position, unit fits through 36" (91 cm) wide by 80" (2 m) high door opening
- Available in painted finishes or woodgrain laminates
- 502 lbs (226 kg)
- Non-marring casters



Storage Position



Easy Setup



Performance Position

Acoustical Treatments



Acoustical Treatments

Attractive and functional designs, each tuned to a particular acoustical task



Acoustical Treatments for the Audience House

What is the best seat in your house? Or, better yet, do you know where to find all the hot spots where sound concentrates and every dead spot sound never reaches? Are certain areas more prone to flutter echoes and excessive reverberation?

Wenger has delivered clear, rich acoustics to audiences and performers for decades. It's our specialty, and we excel at creating custom solutions that enhance the acoustics of any space.



Transcend™ Active Acoustics System

Transcend balances complex digital sound processing with a simple design that offers venues better performance, value and reliability. The HARMAN's Lexicon processor can tailor reverberation and acoustics to create a variety of environments.



Transform™ Acoustic Banner

Wenger's Transform motorized acoustical banners offer the benefits of variable acoustics for all performance spaces, allowing you to improve the audience experience during every performance. In just a few seconds, you can tailor your acoustics to best suit your next performance.



Ceiling Clouds

You don't want sound to bounce around backstage and get trapped in the fly loft. You want it reflected at the right place in the right way to the musicians and the audience. Wenger researches your space and then offers you the best solution with our wide range of acoustical ceiling products.



Wall Panels

Tunable Acoustic Panels
Absorber Panels
Type I Convex Diffuser Panels
Type II Convex Diffuser Panels



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Ceiling Clouds

Layout and Installation Requirements

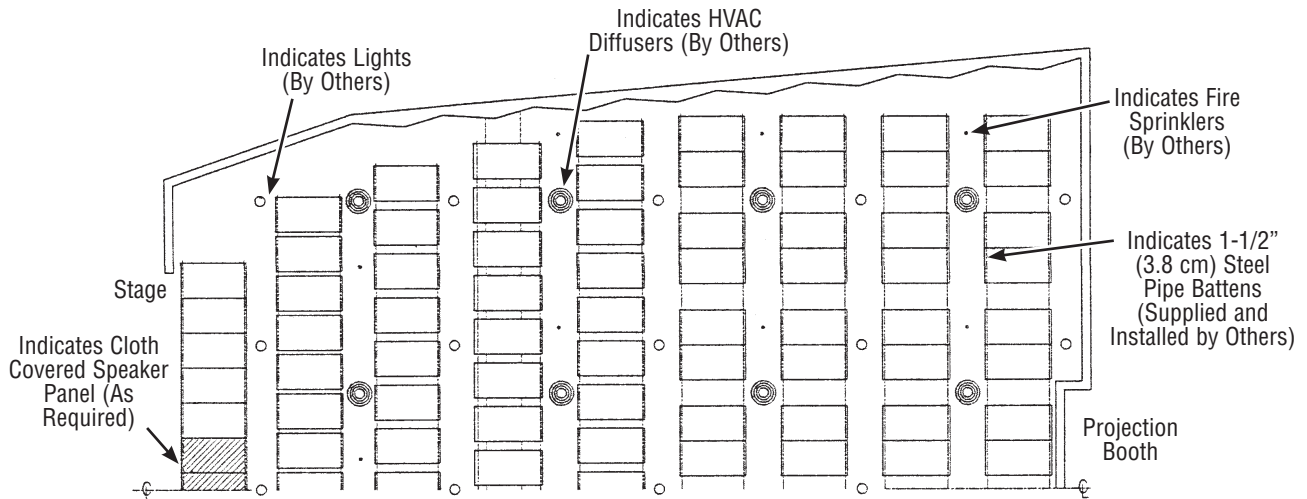
The following application requirements are necessary steps to facilitate the layout of an effective Wenger Acoustical Cloud system for your auditorium. Because of the acoustical complexities of this space, it will be necessary for us to work closely with the project architect and/or acoustician. Look over the following points, but please call us before you begin.

- The layout of the clouds must be completed by a design professional. Consult a professional project architect and/or acoustician for proper performance facility layouts.
- Scaled drawings indicating cloud placement and elevations need to be provided to Wenger to facilitate layout.
- Drawings should indicate: HVAC, light and sprinkler locations and elevations.
Please note that the Wenger Acoustical Cloud System is not designed to support lights, HVAC and sprinkler systems. Close coordination of these elements is required if they penetrate or pass through the Cloud System.
- **Finish options:**
Face - painted, plastic laminate or wood veneer.
Panel back and perimeter - painted black.
All assembly hardware will have a standard manufacturer's finish.
- Typical cloud panel size - 4' x 8' (122 x 244 cm). Custom panels may be available upon request.
- A typical cloud panel weighs approximately 2-1/2 lbs per square foot (1.13 kg). Panel weights do not include the additional pipe grid and hardware supplied and installed by others.
- Custom acoustically transparent cloth-covered panels are available for the speaker cluster area if required.
- Verification of all dimensions is required before construction of cloud panels.

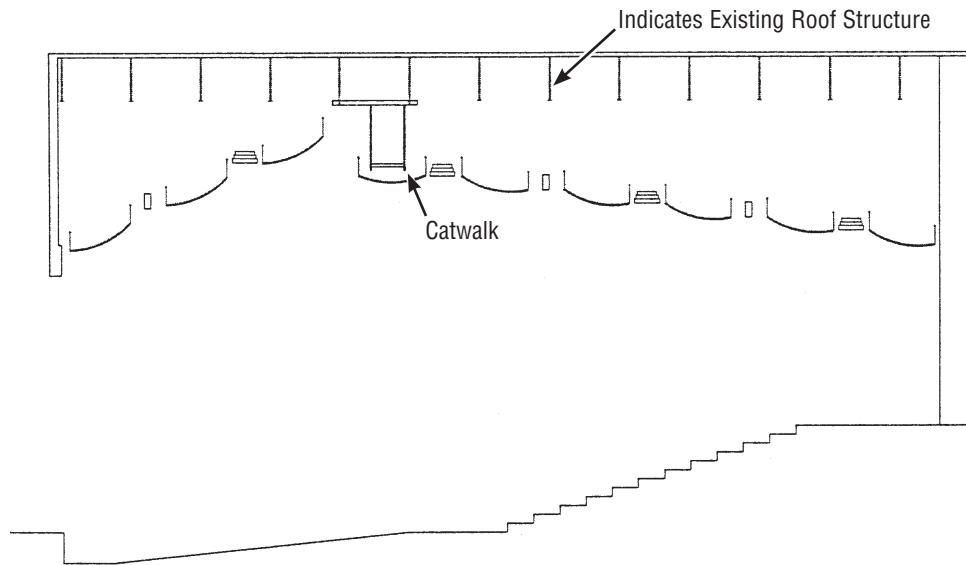
Acoustical Treatments

Typical Drawings

Half Plan — Auditorium Reflected Ceiling — Panel Spacing and Grouping



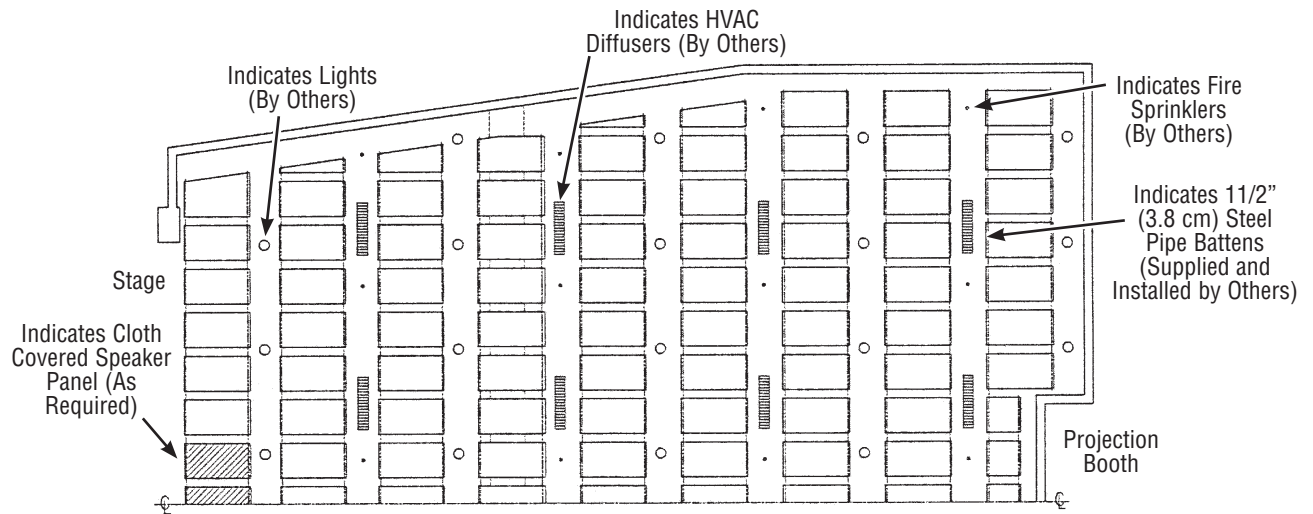
Section Through Centerline of Auditorium



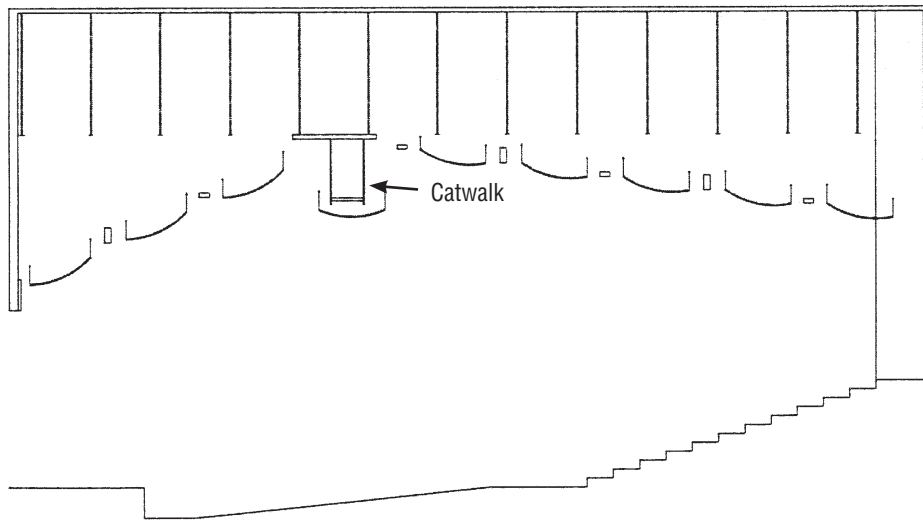
Acoustical Treatments

Typical Drawings

Half Plan — Auditorium Reflected Ceiling — Spacing and Custom Tapers



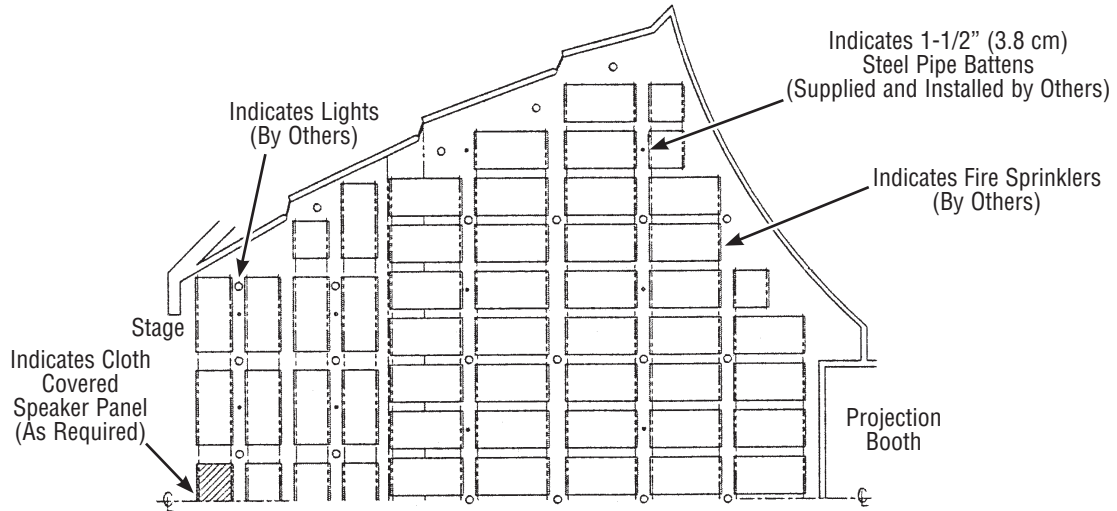
Section Through Centerline of Auditorium



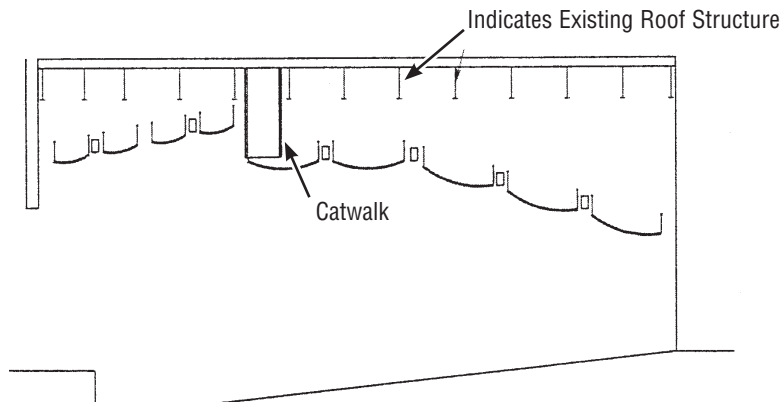
Acoustical Treatments

Typical Drawings

Half Plan — Auditorium Reflected Ceiling — Spacing and Panel Orientation



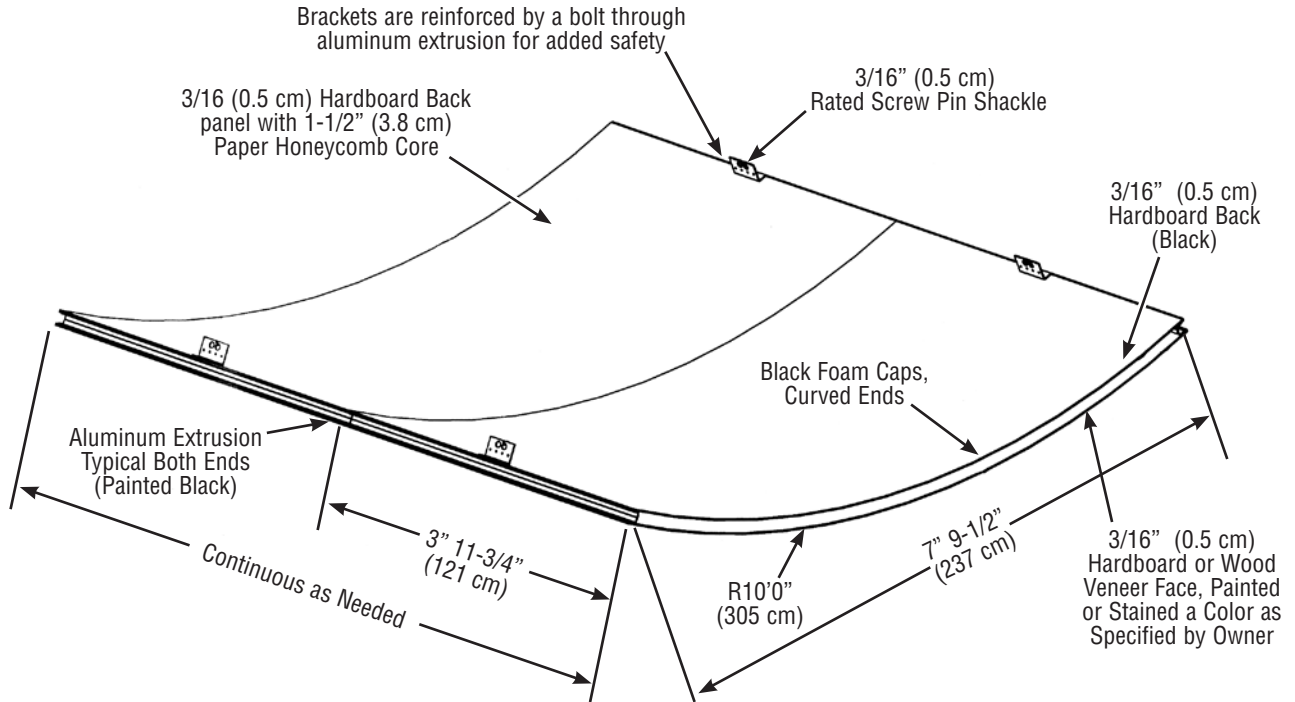
Section Through Centerline of Auditorium



Acoustical Treatments

Typical Drawings

Consult your job site engineer for proper placement and safe installation of the suspension points.



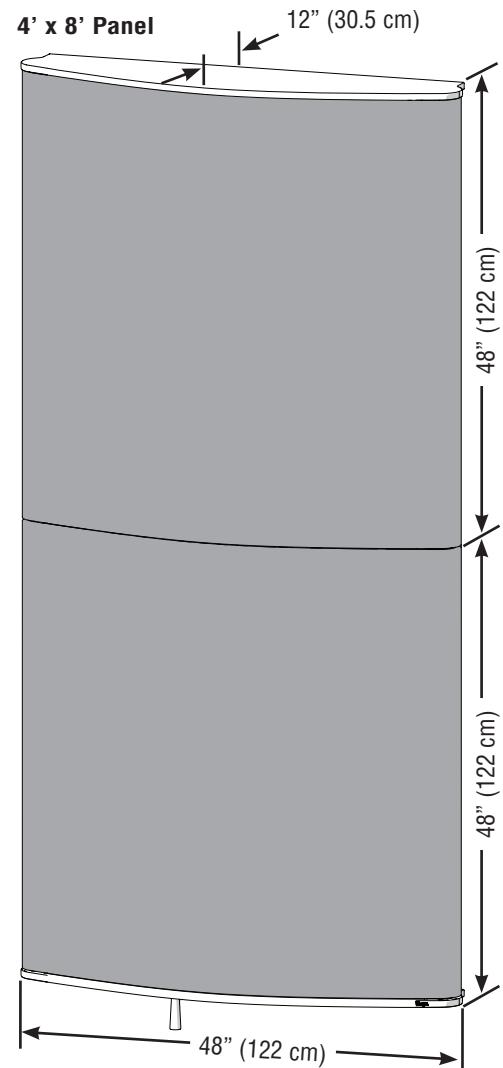
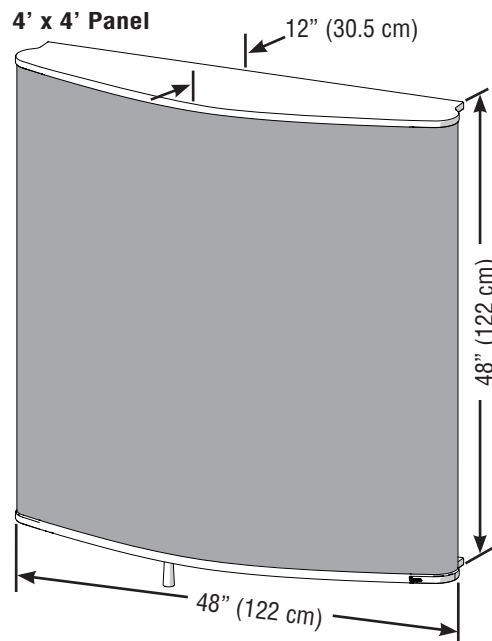
A typical cloud panel weighs approximately 21/2 lbs per square foot (1.13 kg). Panel weight does not include the suspension hardware.

Acoustical Treatments

Application Information

Tunable Acoustical Panels

- Provides ideal acoustic treatment for multi-function music rehearsal rooms, recital halls and cafeteriums.
- Easily accessible and changeable for absorption and diffusion.
- Facilitates instrumental and choral music in the same rehearsal or performance space.
- Provides up to 0.8 seconds of change in reverberation time.
- Ideal for music rehearsal rooms, recital halls and cafeteriums.
- Available in two sizes: 4' x 4' (122 x 122 cm) or 4' x 8' (122 x 244 cm) with center depth of 12" (30.5 cm).
- Panels are available in these configurations:
 - Absorber/Diffuser (changeable)
 - Absorber only (not changeable)
 - Diffuser only (not changeable)
- Panel face is constructed of an aluminum sheet which is curved and covered with fabric. Tunable and Absorber Panels are micro perforated, Diffuser Panels are solid.
- Standard acoustical fabric by Guilford of Maine (Anchorage Series). Available in a variety of colors and Class A fire rated per ASTM E84. Custom fabrics may also be used, dependent on fabric specification.
- Panel sides are constructed of heavy duty curved aluminum extrusions for durability.
- Top and bottom panels are constructed of 3/4" (2 cm) thick laminated particleboard with 3 mm edge banding.
- Available in select woodgrain finishes.
- Internal absorber/diffuser mechanism constructed of hinged aluminum sheets with steel actuator. Changes from absorber to diffuser with quick turn of a handle.
- Panel securely attaches to the wall with two brackets.
- Main wall bracket is constructed of 10 gauge steel (3.4 mm) with holes aligned every 2" (51 mm) to accommodate studded walls.
- Provides broad range frequency absorption from 125hz to 4000hz.
- Shipped partially assembled.
- Five-year warranty.
- Patent pending.



See the following page for acoustical test results.

Acoustical Treatments

Application Information

Acoustical Performance

Third party test results for sound absorption coefficients conformed explicitly with the requirements of ASTM C423-09a and ASTM E795-08.

Acoustical test data available upon request.

Tunable Panel

- Internal absorber/diffuser mechanism constructed of hinged aluminum sheets with steel actuator.
- Changes from absorber to diffuser with quick turn of a handle. Handle protrudes down 4" from bottom panel surface.
- Provides up to 0.8 seconds of change in reverberation time.
- 214A010 - panel weight (installed): 4' x 4' = 92 lbs (41.7 kg), 4' x 8' = 155 lbs (70.3 kg).

Averaged Sound Absorption Coefficient Octave Band Center Frequencies (Hz)						
Mounting Type	125	250	500	1000	2000	4000
Absorber Mode						
A	0.83	0.97	0.95	0.68	0.60	0.56
Diffuser Mode						
A	0.61	0.41	0.30	0.24	0.39	0.65

Absorber Only Panel

Same construction and aesthetic as the Tunable Panel, with these exceptions:

- No internal absorber/diffuser mechanism. Panel is used only as a sound absorber.
- Provides broad frequency range sound absorption from 125 Hz to 4000 Hz.
- 214A011 - panel weight (installed): 4' x 4' = 69 lbs (31.3 kg), 4' x 8' = 110 lbs (49.9 kg).

Averaged Sound Absorption Coefficient Octave Band Center Frequencies (Hz)						
Mounting Type	125	250	500	1000	2000	4000
A	0.81	0.98	0.87	0.65	0.61	0.56

Diffuser Only Panel

Same construction and aesthetic as the Tunable Panel, with these exceptions:

- No internal absorber/diffuser mechanism. Panel is used only as a sound diffuser.
- Provides broad frequency range sound diffusion from 125 Hz to 4000 Hz.
- 214A012 - panel weight (installed): 4' x 4' = 72 lbs (32.7 kg), 4' x 8' = 116 lbs (52.6 kg).

Averaged Sound Absorption Coefficient Octave Band Center Frequencies (Hz)						
Mounting Type	125	250	500	1000	2000	4000
A	0.45	0.31	0.20	0.10	0.11	0.18

Acoustical Treatments

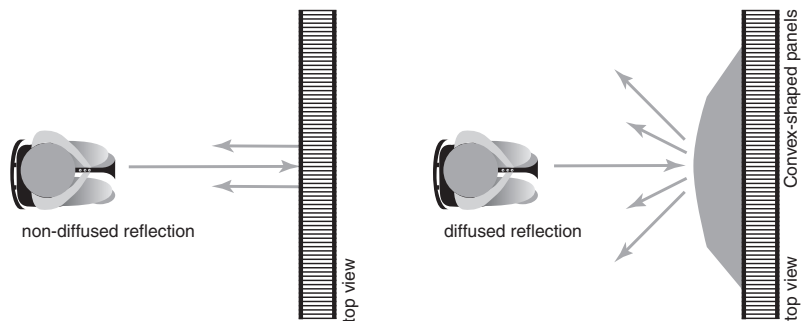
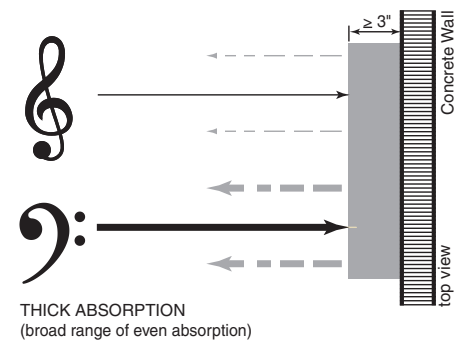
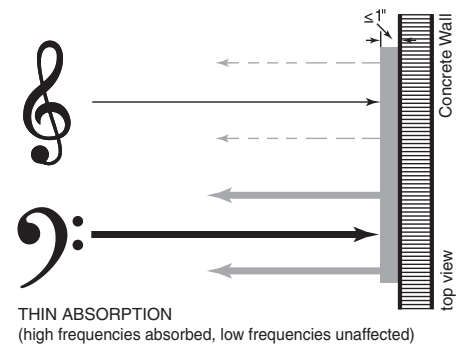
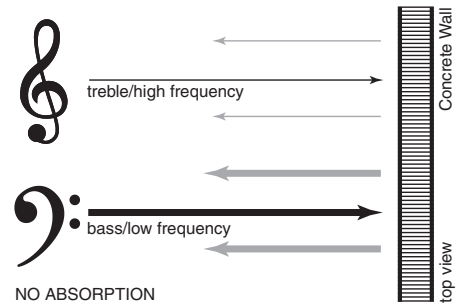
Application Information

Interactive Acoustical Panel System

The information contained in this section is a starting point to help you incorporate Wenger Interactive Acoustical Panels into your design. But, because every environment and application requirement is unique, we need to work with you to make specific recommendations for your design. This is necessary to ensure that your final plan addresses the most common problem associated with music rooms: excessive loudness.

Layout Recommendations

1. Room surfaces should not include any convex planes - flat surface preferred.
2. Ceiling heights of 18'–22' (5.5–6.7 m) for instrumental and 16'–20' (4.9–6.1 m) for choral rehearsal rooms are recommended.
3. Suspended ceiling with 1" (2.5 cm) thick glass fiber panels should be included for Instrumental Rooms (recommended NRC is 0.95).
4. Cubic room volumes of 550–700 cu. ft. per instrumentalist and 350–500 cu. ft. per vocalist is recommended.
5. For Choral Rehearsal Rooms, 0.95 NRC ceiling tile is recommended around the perimeter of the room only.
6. Instrument storage best located outside of rehearsal room.
7. Carpet is generally not recommended in the music rehearsal area because of its selective high frequency absorption.
8. Wenger will guarantee your room performance if the following four elements can be met:
 - Use of Wenger recommended ceiling material.
 - Adequate cubic room and volume as stated in #4.
 - Adequate space to mount panels.
 - Wenger can only guarantee room performance in spaces where our recommendations are followed.



Acoustical Treatments

Application Information

Types of Panels

Wall Absorbers

Fabric wrapped with reinforced edges. Intended to provide good absorption across broad range of frequencies. Mostly located on rear wall, rear one-third of side walls and corners.

Ceiling Absorbers

Same construction as wall absorbers. Can be suspended from ceiling, mounted in ceiling grid or attached directly to the ceiling surface. Used in rooms with a reflective ceiling.

Wall Diffusers

Type I: Fabric wrapped molded from 4 up to 18 ft² (0.37 up to 1.67 m²) surface area.

Convex shape with faceted edges or offset pyramidal panels designed to blend sound of higher and mid - frequencies so as to eliminate "hot" or "dead" spots in a room. Primarily on the front wall and the front two-thirds of the side walls.

Type II: Fabric wrapped panels with absorptive fiberglass backing have 18 to 32 ft² (1.67 to 2.97 m²) surface area.

Designed to diffuse lower frequencies and absorb lower frequencies.

Typically mounted on the back wall and the back 1/3 of side walls behind percussion and lower brass instruments.

Ceiling Diffusers

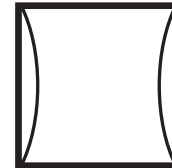
Pyramidal: Molded, white, ceiling diffuser typically installed in a suspended ceiling. Surface is paintable by others.

Convex: Molded, white ceiling mounted diffusers located over director and spreading out over middle of group. Surface is paintable by others.

Quadratic: Originally used in recording studios and major concert halls around the world, quadratic technology provides uniform reflection of sound over a wide frequency range. Typically installed in a suspended ceiling.



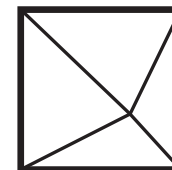
Wall Absorber



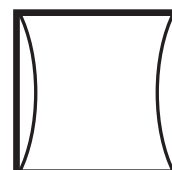
Type I Wall Diffuser



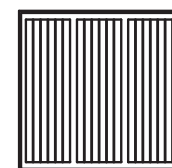
Type II Wall Diffuser



Pyramidal Ceiling Diffuser



Convex Ceiling Diffuser



Quadratic Ceiling Diffuser

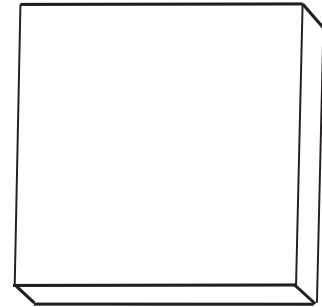
Acoustical Treatments

Application Information

Standard Absorber Panels

Panel fabric covering utilizes the Guilford of Maine company, model FR701, style 2100, and is available in a variety of colors. We can accommodate non-standard styles and colors pending manufacturing approval and testing. Contact Wenger for additional information.

- Manufacturer's standard construction of 2" (5 cm), 3" (8 cm), and 4" (10 cm) thick 6 pcf, glass fiber board, hardened resin edges, covered with Class A fabric according to NFPA 101 Life Safety Code Requirements.
- Corner brackets to receive mounting hardware.
- Five-year warranty.



Absorber Panel

Wall Absorber Panels

Nominal Dimensions	Actual Dimensions	2" (5 cm) Thick Weight	3" (8 cm) Thick Weight	4" (10 cm) Thick Weight
2' x 2' (61 x 61 cm)	23-3/16" x 23-3/16" (59 x 59 cm)	5 lbs (2.27 kg)	7 lbs (3.18 kg)	9 lbs (4.08 kg)
2' x 3' (61 x 92 cm)	23-3/16" x 35-3/16" (59 x 89 cm)	7 lbs (3.18 kg)	10.5 lbs (4.76 kg)	13.5 lbs (6.12 kg)
2' x 4' (61 x 122 cm)	23-3/16" x 46-7/8" (59 x 119 cm)	9.5 lbs (4.31 kg)	14 lbs (6.35 kg)	18 lbs (8.16 kg)
2' x 5' (61 x 153 cm)	23-3/16" x 59-7/8" (59 x 152 cm)	12 lbs (5.44 kg)	17.5 lbs (7.94 kg)	22.5 lbs (10.21 kg)
2' x 6' (61 x 183 cm)	23-3/16" x 70-7/8" (59 x 180 cm)	14.5 lbs (6.58 kg)	21 lbs (9.53 kg)	27 lbs (12.25 kg)
2' x 8' (61 x 244 cm)	23-3/16" x 94-7/8" (59 x 241 cm)	19 lbs (8.62 kg)	28 lbs (12.70 kg)	36 lbs (16.33 kg)
3' x 3' (92 x 92 cm)	35-3/16" x 35-3/16" (89 x 89 cm)	11 lbs (4.99 kg)	16 lbs (7.26 kg)	20.5 lbs (9.30 kg)
3' x 4' (92 x 122 cm)	35-3/16" x 46-7/8" (89 x 119 cm)	14.5 lbs (6.58 kg)	21 lbs (9.53 kg)	27 lbs (12.25 kg)
3' x 5' (92 x 153 cm)	35-3/16" x 58-7/8" (89 x 150 cm)	18 lbs (8.16 kg)	26 lbs (11.79 kg)	34 lbs (15.42 kg)
3' x 6' (92 x 183 cm)	35-3/16" x 70-7/8" (89 x 180 cm)	22 lbs (9.98 kg)	31.5 lbs (14.29 kg)	41 lbs (18.60 kg)
3' x 8' (92 x 244 cm)	35-3/16" x 94-7/8" (89 x 241 cm)	29 lbs (13.15 kg)	42 lbs (19.05 kg)	54.5 lbs (24.72 kg)
4' x 4' (122 x 122 cm)	46-7/8" x 46-7/8" (119 x 119 cm)	19 lbs (8.62 kg)	28 lbs (12.70 kg)	36 lbs (16.33 kg)
4' x 5' (122 x 153 cm)	46-7/8" x 58-7/8" (119 x 150 cm)	24 lbs (10.89 kg)	35 lbs (15.88 kg)	45 lbs (20.41 kg)
4' x 6' (122 x 183 cm)	46-7/8" x 70-7/8" (119 x 180 cm)	29 lbs (13.15 kg)	42 lbs (19.05 kg)	54.5 lbs (24.72 kg)
4' x 8' (122 x 244 cm)	46-7/8" x 94-7/8" (119 x 241 cm)	38.5 lbs (17.46 kg)	56 lbs (25.40 kg)	72.5 lbs (32.89 kg)

Note: Custom sizes are available.

Ceiling Absorber Panels

Nominal Dimensions	Actual Dimensions	2" (5 cm) Thick Weight	3" (8 cm) Thick Weight	4" (10 cm) Thick Weight
2' x 2' (61 x 61 cm)	23-3/16" x 23-3/16" (59 x 59 cm)	5 lbs (2.27 kg)	7 lbs (3.18 kg)	9 lbs (4.08 kg)
2' x 3' (61 x 92 cm)	23-3/16" x 35-3/16" (59 x 89 cm)	7 lbs (3.18 kg)	10.5 lbs (4.76 kg)	13.5 lbs (6.12 kg)
2' x 4' (61 x 122 cm)	23-3/16" x 46-7/8" (59 x 119 cm)	9.5 lbs (4.31 kg)	14 lbs (6.35 kg)	18 lbs (8.16 kg)
3' x 3' (92 x 92 cm)	35-3/16" x 35-3/16" (89 x 89 cm)	11 lbs (4.99 kg)	16 lbs (7.26 kg)	20.5 lbs (9.30 kg)
3' x 4' (92 x 122 cm)	35-3/16" x 46-7/8" (89 x 119 cm)	14.5 lbs (6.58 kg)	21 lbs (9.53 kg)	27 lbs (12.25 kg)
4' x 4' (122 x 122 cm)	46-7/8" x 46-7/8" (119 x 119 cm)	19 lbs (8.62 kg)	28 lbs (12.70 kg)	36 lbs (16.33 kg)

Note: Ceiling absorber panels mount direct to permanent ceiling or suspend from wire only.

No lay-in or clip-in option available for suspended ceiling grids.

Acoustical Treatments

Application Information

Standard Diffuser Panels

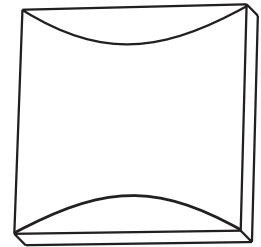
Diffuser panels include ceiling and wall panels. Only wall panels are fabric covered. Type I and Type II wall panels are convex shaped. Ceiling panels are either convex or pyramidal shaped. Panel fabric covering utilizes the Guiford of Maine Company, model FR701, Style 2100 series of fabric, and is available in a variety of colors. We can accommodate non-standard styles and colors pending manufacturing approval and testing. Contact Wenger for additional information.

- Corners are reinforced with diagonal supports, which also provide a secure anchor for the mounting hardware.
- Constructed of Class A material according to NFPA 101 Life Safety Code Requirements.

Wall Diffusers Panels, Type I (Convex)

- Constructed thermo molded plastic, 0.125" (3 mm) material thickness, recyclable.

Nominal Dimensions	Actual Dimensions	Weight
2' x 2' x 4-3/4" (61 x 61 x 12 cm)	22-3/4" x 22-3/4" x 4-3/4" (58 x 58 x 12 cm)	6 lbs (2.72 kg)
3' x 3' x 4-7/8" (92 x 92 x 12 cm)	35-1/4" x 35-1/4" x 4-7/8" (90 x 90 x 12 cm)	13.5 lbs (6.12 kg)
3' x 4' x 5-7/8" (92 x 122 x 15 cm)	35-1/4" x 47" x 4-7/8" (90 x 119 x 12 cm)	18 lbs (8.16 kg)
3' x 6' x 5-7/8" (92 x 183 x 15 cm)	35-1/4" x 71" x 5-7/8" (90 x 152 x 15 cm)	27 lbs (12.25 kg)
4' x 2' x 4-7/8" (122 x 61 x 12 cm)	47" x 23-1/2" x 4-7/8" (119 x 60 x 12 cm)	12 lbs (5.44 kg)
4' x 3' x 5-7/8" (122 x 92 x 15 cm)	47" x 35-1/4" x 5-7/8" (119 x 90 x 15 cm)	18 lbs (8.16 kg)
4' x 4' x 7-3/8" (122 x 122 x 19 cm)	47" x 47" x 7-3/8" (119 x 119 x 19 cm)	24 lbs (10.89 kg)
4' x 6' x 7-3/8" (122 x 183 x 19 cm)	47" x 71" x 7-3/8" (119 x 180 x 19 cm)	36 lbs (16.33 kg)
4' x 8' x 7-3/8" (122 x 244 x 19 cm)	47" x 95" x 7-3/8" (119 x 241 x 19 cm)	48 lbs (21.77 kg)

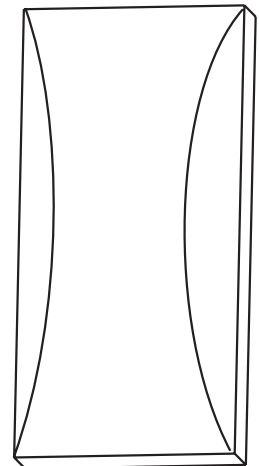


Type I Wall Diffuser

Wall Diffusers Panel, Type II (Convex)

- Constructed of thermo molded plastic, 0.125" (3 mm) material thickness with glass fiber board glued to rear surface of panel. Recyclable.

Nominal Dimensions	Actual Dimensions	Weight
3' x 6' x 5-3/8" (92 x 183 x 15 cm)	35-1/4" x 71" x 5-3/8" (90 x 152 x 15 cm)	36 lbs (16.33 kg)
4' x 6' x 7-3/8" (122 x 183 x 19 cm)	47" x 71" x 7-3/8" (119 x 180 x 19 cm)	48 lbs (12.77 kg)
4' x 8' x 7-3/8" (122 x 244 x 19 cm)	47" x 95" x 7-3/8" (119 x 241 x 19 cm)	64 lbs (29.03 kg)



Type II Wall Diffuser

Acoustical Treatments

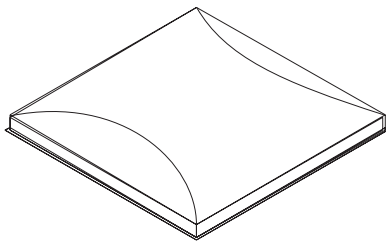
Application Information

Ceiling Diffuser Panels

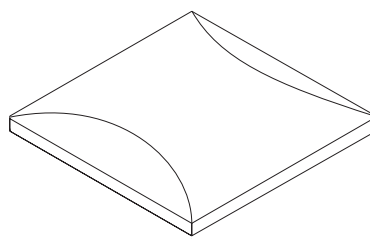
- Ceiling diffuser panels are available in two shapes, convex or pyramidal.
- Manufacturer's standard construction of thermo molded plastic, 0.125" (3 mm) material thickness with white, "lemon-peel" finish. NOT fabric covered.
- Surface is paintable using latex acrylic paint only. Recyclable.
- Constructed of Class A material according to NFPA 101 Life Safety Code Requirements.
- Lay-In ceiling panels attach securely to a suspended ceiling grid (safety cables provided).
- For a suspended ceiling grid, please specify if using standard or designer grid system.
- Clip-In ceiling panels may be direct mounted to permanent ceiling, or suspended from ceiling by wire from four corner hooks.

Convex Ceiling Diffuser Panels

Nominal Dimensions	Actual Dimensions	Weight
Lay-in Panel (for designer or standard grid)		
2' x 2' x 5-1/4" (61 x 61 x 13 cm)	22-3/4" x 22-3/4" x 5-1/4" (58 x 58 x 13 cm)	3 lbs (1.36 kg)
4' x 2' x 5-1/4" (122 x 61 x 13 cm)	46-7/8" x 23-1/8" x 5-1/4" (119 x 59 x 13 cm)	8 lbs (3.63 kg)
4' x 4' x 5-1/4" (122 x 122 x 13 cm)	46-3/4" x 46-3/4" x 5-1/4" (119 x 119 x 13 cm)	15 lbs (6.80 kg)
Clip-in Panel (for direct mount or wire suspended)		
2' x 2' x 4-3/4" (61 x 61 x 12 cm)	22-3/4" x 22-3/4" x 4-3/4" (58 x 58 x 12 cm)	3 lbs (1.36 kg)
4' x 2' x 4-3/4" (122 x 61 x 12 cm)	46-7/8" x 23-1/8" x 4-3/4" (119 x 59 x 12 cm)	8 lbs (3.63 kg)
4' x 4' x 4-3/8" (122 x 122 x 11 cm)	46-3/4" x 46-3/4" x 4-3/8" (119 x 119 x 11 cm)	15 lbs (6.80 kg)



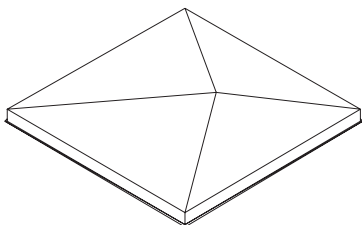
Lay-in Convex Ceiling Diffuser



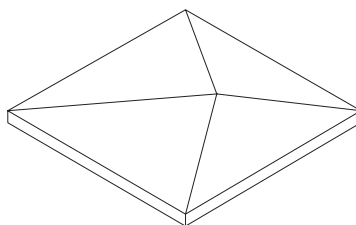
Clip-in Convex Ceiling Diffuser

Pyramidal Ceiling Diffuser Panels

Nominal Dimensions	Actual Dimensions	Weight
Lay-in Panel (for designer or standard grid)		
4' x 4' x 12" (122 x 122 x 30 cm)	46-3/4" x 46-3/4" x 12" (119 x 119 x 30 cm)	15 lbs (6.80 kg)
Clip-in Panel (for direct mount or wire suspended)		
4' x 4' x 12" (122 x 122 x 30 cm)	46-3/4" x 46-3/4" x 12" (119 x 119 x 30 cm)	15 lbs (6.80 kg)

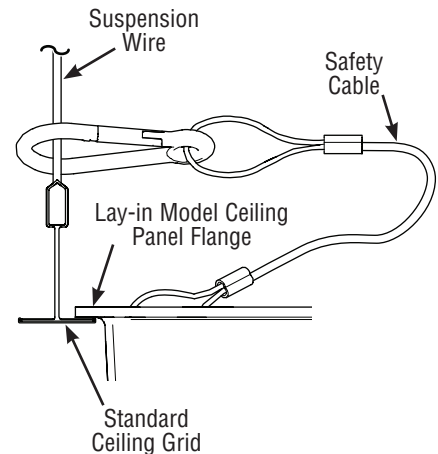
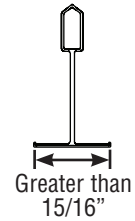


Lay-in Pyramidal Ceiling Diffuser

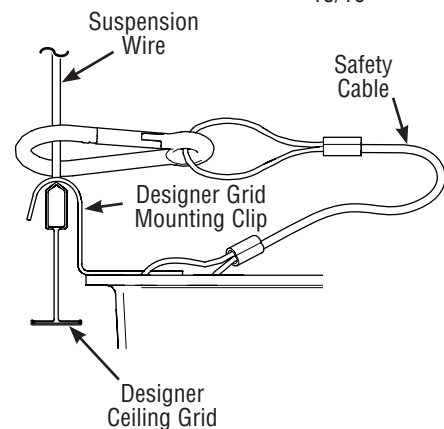
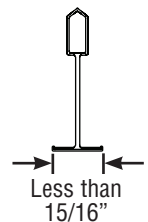


Clip-in Pyramidal Ceiling Diffuser

Standard Ceiling Grid Rail



Designer Ceiling Grid Rail



Acoustical Treatments

Application Information

Installation

Standard Acoustical Wall Panels are designed for easy installation. Panels are shipped fully assembled with mounting brackets included for a secure installation. Brackets are fastened (fasteners not included) to virtually any wall surface (Fig. 1) and the panels mount easily onto the wall brackets (Fig. 2).

Wall Absorber/Diffuser Installation

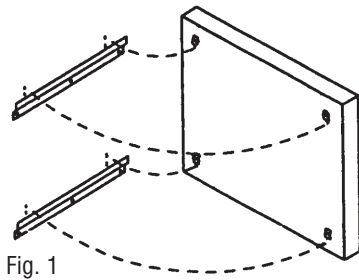


Fig. 1

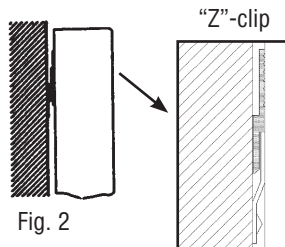
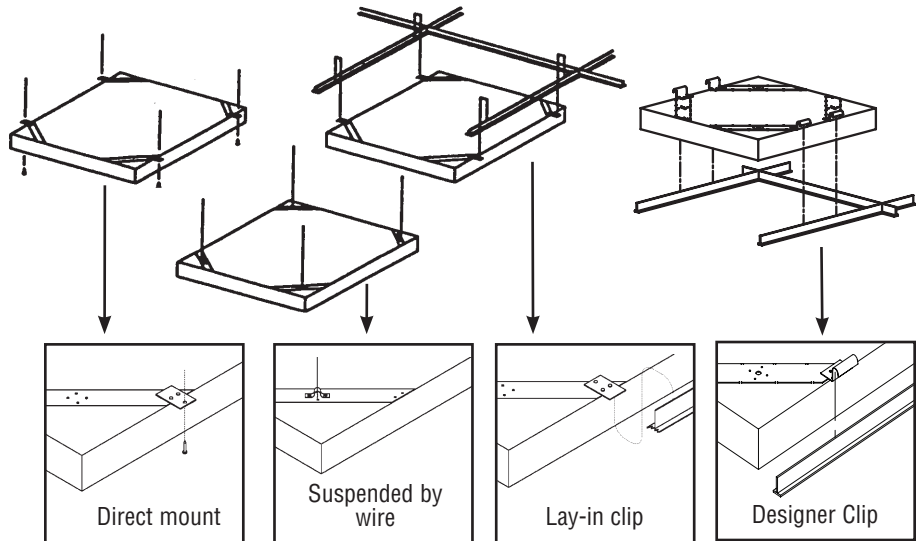


Fig. 2

Ceiling Absorber/Diffuser Installation



Acoustical Performance

Sound Absorption Coefficient							
One-Third Octave Band Center Frequency (Hz)							
Mounting Type		125	250	500	1000	2000	4000
Wall and Ceiling Absorbers 4' x 4' (122 x 122 cm)							
A ¹	2" (5 cm)	0.50	0.96	1.27	1.27	1.23	1.18
	3" (8 cm)	0.65	1.10	1.31	1.23	1.20	1.09
	4" (10 cm)	0.84	1.17	1.34	1.32	1.25	1.20
Ceiling Diffusers 4' x 4' (122 x 122 cm) Convex							
A		0.20	0.11	0.07	0.04	0.09	0.21
E-400		0.21	0.16	0.16	0.15	0.14	0.26
Ceiling Diffusers 4' x 4' (122 x 122 cm) Pyramidal							
A		0.27	0.18	0.09	0.06	0.03	0.00
E-400		0.21	0.14	0.13	0.13	0.18	0.27
Type I Wall Diffusers 4' x 4' (122 x 122 cm) Convex							
A		0.18	0.18	0.13	0.10	0.12	0.16
E-9/32" (7 mm) ¹		0.25	0.14	0.11	0.10	.13	0.16
Type I Wall Diffusers 4' x 4' (122 x 122 cm) Pyramidal							
A		0.23	0.18	0.13	0.12	0.14	0.11
E-9/32" (7 mm) ¹		0.22	0.18	0.12	0.12	0.17	0.20
Type II Wall Diffusers 4' x 8' (122 x 244 cm)							
A		0.34	0.27	0.14	0.11	0.11	0.19
E-9/32" (7 mm) ¹		0.28	0.29	0.19	0.13	0.13	0.20

A¹ Mounted 9/32" (7 mm) air space to simulate actual installation practice;
A Mounting — 0.2" (0.5 cm) air space, E-400 Mounting — 16" (41 cm) air space.
Sound Transmission Class (STC), determined according to ASTM E90 and ASTM E413;
Type I convex ceiling diffuser panel, 4' x 4' (122 cm x 122 cm); STC 23,
Type 1 pyramidal diffuser panel, 4' x 4' (122 x 122 cm), STC 22.

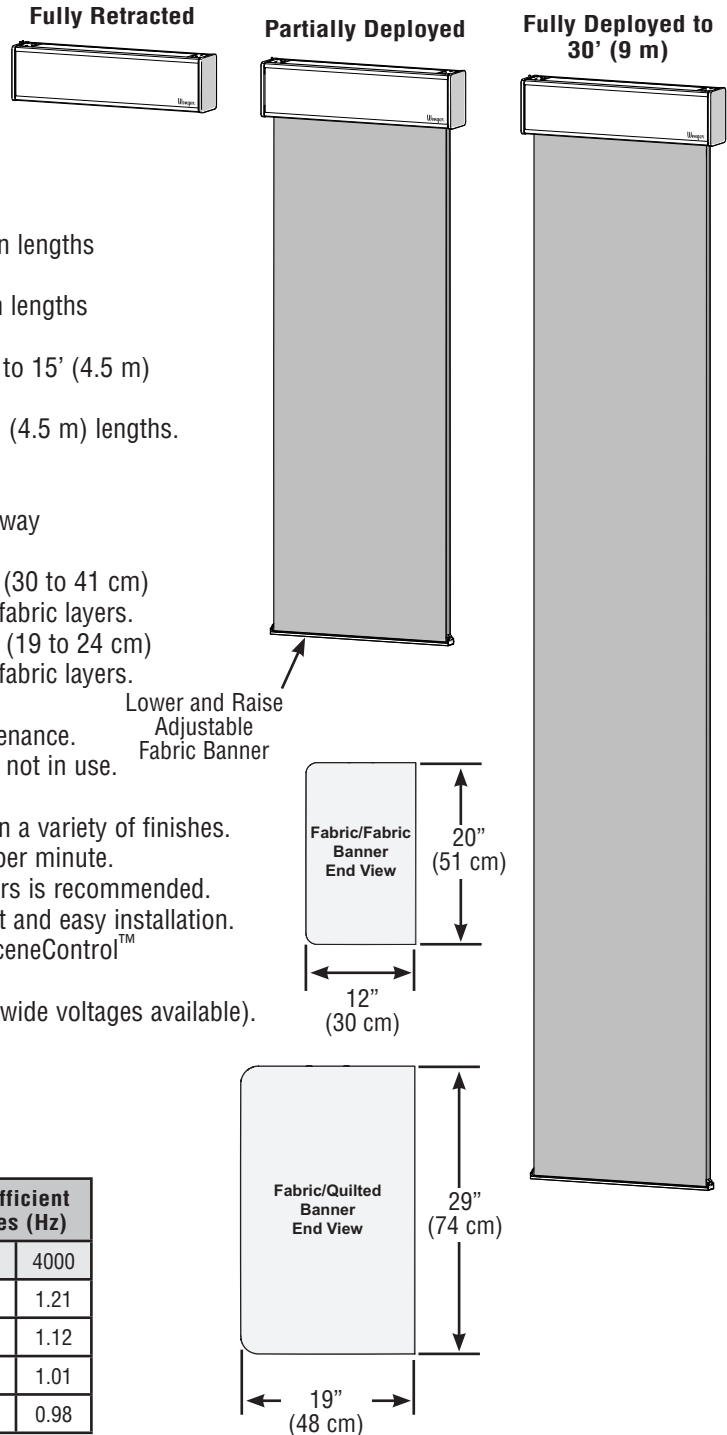
Acoustical Treatments

Application Information

Transform™ Motorized Acoustical Banner

- Standard Banner is 5' (1.5m) wide and is available in widths up to 10' (3 m).
- Tubular motor driven system for use in an operator controlled or pre-set environment.
- Designed for performance spaces, including performance halls, theaters, and auditoriums.

- Available fabric options:
 - Encore Velour, double layer 22 oz (0.6 kg).
 - Wool Serge, double layer 30 oz (0.85 kg).
 - Quilted fabric.
 - Single layer quilted with single layer wool.
 - Single layer quilted with single layer velour.
- 3' - 5' (0.9 m - 1.5 m) wide fabrics are available in lengths of up to 30' (9 m) long.
- 5' - 10' (1.5 m - 3 m) wide fabrics are available in lengths of up to 15' (4.5 m) long in velour or wool only.
- Fabric/Quilted combinations are only available up to 15' (4.5 m) lengths only.
- Screen printed fabrics are only available up to 15' (4.5 m) lengths.
- Banner width will vary with fabric width.
- All fabrics are IFR rated.
- Each banner option includes adjustable spacing away from the wall and between the layers of fabric.
 - Fabric/Quilted spacing ranges from 12" to 16" (30 to 41 cm) from wall and 4" to 8" (10 to 20 cm) between fabric layers.
 - Fabric/Fabric spacing ranges from 7.5" to 9.5" (19 to 24 cm) from wall and 4" to 5" (10 to 13 cm) between fabric layers.
- Each banner includes a standard "quick change" provision to allow fabric to be removed for maintenance.
- Banner retracts into cove to hide from view when not in use.
- Banner includes laminated wood closures.
- For exposed installations, end caps are included in a variety of finishes.
- Fast and quiet deployment of up to 45' (13.7 m) per minute.
- A minimum 2" (5 cm) of spacing between banners is recommended.
- Each banner includes wall mount brackets for fast and easy installation.
- Banner system will integrate with J.R. Clancy's SceneControl™ system or simple push button controls.
- Requires a standard 120-volt/60 Hz circuit (worldwide voltages available).
- Each banner is shipped assembled and tested for proper operation before shipment.
- Patents pending.
- Three-year warranty.



Banner Materials	Average Sound Absorption Coefficient Octave Band Center Frequencies (Hz)					
	125	250	500	1000	2000	4000
Wool + Quilt	0.31	0.78	0.98	1.08	1.15	1.21
Velour + Quilt	0.27	0.70	0.90	1.01	1.10	1.12
Wool + Wool	0.19	0.66	0.91	1.03	1.04	1.01
Velour + Velour	0.16	0.58	0.88	0.98	0.96	0.98

Acoustical Treatments

Application Information

Transcend™ Active Acoustic System

- A system using Transcend active acoustic technology designed for the acoustical enhancement of sound for performance venues.
- System includes a series of speakers, microphones, amplifiers, digital signal processing, and a digital audio bus to create different levels of reverberation in performance spaces.
- Transcend digital signal processor provides up to four zones of control and that can be expanded by adding additional processors.
- Each zone contains 4-channel in, 8-channel out Lexicon active acoustic digital signal processing.
- System includes HiQnet communication protocol through Audio Architect for setup, adjustment, and remote monitoring of the system.
- Processor includes speech/music detection setting which automatically and gradually reduces the system reverberance when a speech signal is detected over a period of time and increases reverberance when music is detected.
- Complete turnkey installation can be provided, including all electrical components, system tuning, wiring/mounting of all speakers, microphones, Transcend, other components and equipment rack. Includes system tuning by Wenger.
- System requires isolated power transformer and motorized breaker panel, specified by Wenger, supplied by others.
- Two-year warranty.



System Components

Harman Crown Amplifiers

- Networked amplification (Audio Architect)
 - DCi 8|300N
 - Channels: 8
 - Sensitivity: 2.0V (34 dB gain)
 - Rated Power Output: 600W per channel into 8/4 ohms
 - Signal to noise ratio: (below rated power 20 Hz to 20 kHz, A-weighted): 108 dB
 - Dimensions: 19" x 3-1/2" x 14-1/4" (48 x 9 x 37 cm)
 - Weight: 23.5 lbs (10.66 kg)
 - DCi 4|600N (Sub Woofer)
 - Channels: 4
 - Sensitivity: 1.0V (34 dB gain)
 - Rated Power Output: 300W per channel into 8/4 ohms
 - Signal to noise ratio: (below rated power 20 Hz to 20 kHz, A-weighted): 108 dB
 - Dimensions: 19" x 3-1/2" x 14-1/4" (48 x 9 x 37 cm)
 - Weight: 20.1 lbs (9.1 kg)
 - Other available options: DCi 8|600N, DCi 2|300N, DCi 2|600N, DCi 4|300N, DCi 2|1250N, DCi 4|1250N

Harman JBL Speakers

- Wall Mounted Speakers:
 - Control 28
 - Frequency Response: (-10 dB)
half space wall: 60 Hz to 16 kHz
 - Continuous program power capacity: 175 watts
 - Sensitivity: 92 dB SPL, 1W, 1m
 - Wall mounting brackets included
 - Ball-mount adjustment
 - Dimensions: 11" w x 15" h x 8-1/2" d (28 x 38 x 22 cm)
 - Weight: 12 lbs (5.5 kg)
 - Control 128 (In-wall)
 - Frequency Response: (-10 dB)
half space wall: 30 Hz to 20 kHz
 - Continuous program power capacity: 120 watts
 - Sensitivity: 90 dB SPL, 1W, 1m
 - Designed for mounting in stud walls, optional stud wall frame available
 - Dimensions: 10.1" w x 13.1" h x 4.3" d (27 x 33 x 11 cm),
4" (10 cm) front of wall to back of speaker
 - Weight: 5.5 lbs (2.6 kg)
- Ceiling Mounted Speakers:
 - Control 26
 - Frequency Response: (-10 dB)
half space wall: 75 Hz to 20 kHz
 - Continuous program power capacity: 150 watts
 - Sensitivity: 89 dB SPL, 1W, 1m
 - Grill, backcan and tile rails included
 - Dimensions: 10" diameter x 8.3" high (25 x 21 cm)
8-3/4" (22 cm) cut out size
 - Weight: 7.5 lbs (3.4 kg)
 - Other speakers available: Control 47C, Control 47LP, Control 47HC

- Sub Woofer Speakers:
 - Surface Mounted Control SB210
 - Frequency Response: (-10 dB)
half space wall: 42 Hz to 200 Hz
 - Continuous program power capacity: 800 watts
 - Sensitivity: 95 dB SPL, 1W, 1m
 - Dimensions: 14" x 23.3" x 22.5" (36 x 59 x 57 cm)
 - Weight: 38 lbs (17.1 kg)
 - Other sub woofers available: Ceiling mounted Control 19CS, Control 312CS

Microphones

- Sennheiser MKHC8040 + MZX 8000
 - Cardioid polar pattern
 - Frequency response: 35 to 20,000 Hz
 - Sensitivity: at 1000 Hz – 20 mV/Pa (-34 dB)
 - Equivalent Noise Ratio Level: 13 dB-A, SPL for 1%
 - Length: 1-5/8" (41 mm), with XLR module – 3" (76 mm),
3/4" (19 mm) dia.
- Other microphones available: Schoeps CCM4 and MK4, Neumann KM100

Harman BSS Microphone Preamplifier and A/D Converter

- BSS London BLU – BIB
 - Inputs: 8 analog
 - Dimensions: 1.65" h x 8.63" w x 7.75" d
(42 x 219 x 197 mm)
 - Weight: 2.96 lbs (1.34 kg)

Harman BSS Digital Signal Processor

- BSS BLU 50
 - Inputs: 4 analog with 48V phantom power
 - Outputs: BLUlink digital audio
 - Dimensions: 1.65" h x 8.63" w x 7.75" d
(41 x 219 x 197 mm)
 - Weight: 2.82 lbs (1.28 kg)
- Other processors available: BLU 160

Wenger Transcend Active Acoustic Processor

- System: 48 kHz, 32-bit floating point
- Digital Inputs: 16 microphone, 8 auxiliary
- Digital Outputs: 32 channels of BLU link digital audio
- Maximum number of channels: 256 at 48 kHz
- Latency: 6.3 msec.
- Communication protocol: Harman HiQnet
- Communication Applications: Audio Architect
- Up to four zones of processing
- Dimensions: 3.5" h x 19" w x 8.25" d (9 x 48 x 21 cm)
- Weight: 11.5 lbs. (5.21 kg)

Harman Control Panels

- AMX Touch Screen Control:
 - 7" diagonal touch screen, wall mounted with custom programmed presets for Transcend System
- BSS Conrio EC-8B
 - Wall mounted ethernet wall controller, HiQnet compatible,
8 programmable buttons
- Also compatible with Crestron control panels

Orchestra Pit Filler/Stage Extensions



Orchestra Pit Filler/Stage Extensions

Make your orchestra pit disappear. Make some valuable storage space appear.

Decks
STRATA decks lock to the substructure with a simple hex wrench connection. Each deck is isolated from other decks to eliminate rubbing and potential noise generation.

Cross Beams
Cross beams attach to the main beam with a quick tube-and-socket connection – and no tools. This tremendous flexibility ensures an ideal fit even in applications with a difficult-to-match wall radius.

Main Beams
Main beams connect to your stage front with a simple bracket to ensure a seamless connection with the permanent stage.

Diagonal Bracing
Braces are bolted to main beams and cross beams to eliminate loose parts and speed setup. Braces from each beam attach to columns with quick-release pins.

Columns
Columns connect to the main beam with a quick-release pin. This smart, simple system makes switching lengths of columns – or the height of your entire pit filler – faster and easier than ever.



Leveling feet on all columns.

STRATA® Orchestra Pit Filler

Our STRATA Orchestra Pit Filler is custom-designed to fit the exact specifications of any orchestra pit. The fit is seamless and extends to the end of the pit. The STRATA Orchestra Pit Filler attaches quickly and easily, requiring only a few parts, a small crew, and only one tool to set up. It provides incredibly strong support while freeing up an amazing amount of useable space below, a result of our innovative column-beam design. Our acoustically dampened decks fit snugly against your existing stage to create an integrated surface that is seamless and extremely quiet.



The system uses a few sturdy columns rather than numerous legs or awkward bridging supports. The result is a structure that is more stable, extremely quiet and provides a huge increase in storage space.

Product Details

- Connects to your existing stage with exceptional ease.
- Preattached substructure components make setup fast and intuitive.
- Flexible design gives you the versatility to make adjustments to fit your stage and space.
- The use of beams rather than numerous legs or bridging supports frees up an incredible amount of open space below.
- Honeycomb deck construction acoustically dampens decks and quiets “drumhead” effect.
- Decks nestle side by side with your existing stage to create an integrated surface that is seamless and extremely quiet.
- Simple deck-to-stage connections.
- Leveling feet on all columns.
- A variety of flooring surfaces.
- Five-year warranty.



Quick-Release Pin System
This convenient design eliminates tools and makes setup quick and easy. The system is used to attach columns to main beams, and also diagonal braces to main beams and cross beams.



Decks Lock In Place With Hex Key
A hex key locks each deck in place with a simple turn. It's the only tool you'll need. Each deck is isolated to eliminate rubbing and potential noise generation and can be adjusted independently of other decks.



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Orchestra Pit Filler / Stage Extensions

Application Information

General Information

- Designed and developed as an orchestra pit filler.
- Portable interlocking platform system with detachable and interchangeable columns, cross braced to support platform decking. Each column equipped with screw foot leveling.
- The STRATA® Pit Filler system is comprised of several independent units connected together.
- Deck panels can be removed individually and are isolated from adjacent panels.

Installation Requirements

- Simple deck-to-under structure connections.
- Quick-release-pin system for support structure makes installation faster and consistent.
- Fast, straightforward column-beam setup with few loose parts.
- Leveling feet on all columns.
- Deck panels attach to frames mechanically. A hex key locks each deck in place - no other tools are required.

Performance Requirements

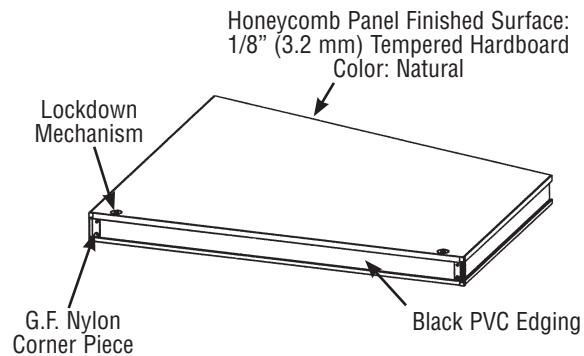
- Available for orchestra pits stages up to 10' (3 m) deep.
- For stages over 10' (3 m), please contact your Wenger representative.
- Composite (honeycomb) deck construction acoustically dampens decks and quiets "drumhead" effect.
- Molded nylon deck corners and extruded PVC edging cap the perimeter of the stage decks to eliminate sharp edges.
- Each deck is isolated to eliminate rubbing and potential noise generation and can be located or repositioned independently of other decks.
- Basic system meets a uniform live load of 125 psf (57 kg).
- System can meet building code standards of L/360.
- Deck surface withstands a point load of 500 lb. (227 kg) on a 2" (5 cm) caster without leaving permanent marks.
- Meets side load criteria of states with seismic loading requirements.
- Five-year warranty.

Orchestra Pit Filler / Stage Extensions

Application Information

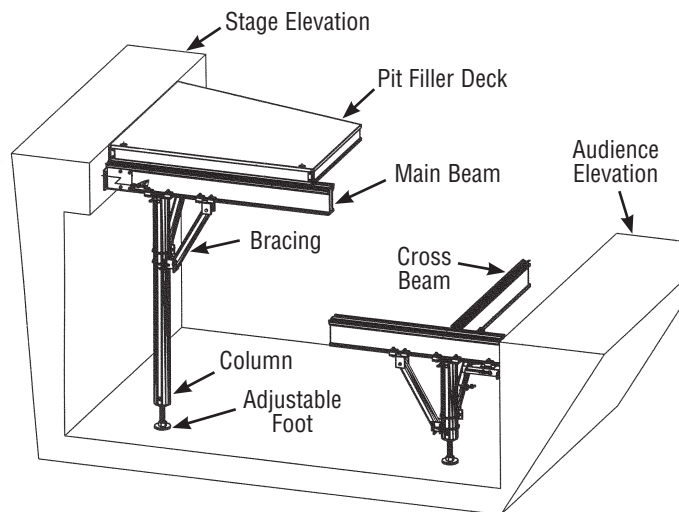
Composite Panel Deck

- Faces: 11/32 " (8.7 mm) A-C Group 1 exterior plywood.
- Core: Phenolic impregnated paper honeycomb.
- Traffic Surface: 1/8 " (3.2 mm) tempered hardboard. Optional 5/8" (15.9 mm) Tongue-and-groove flooring available.
- Edges: Extruded PVC with glass filled nylon corners.
- Panel Attachments: Integral spring loaded screw assemblies that attach panel to supporting understructure.



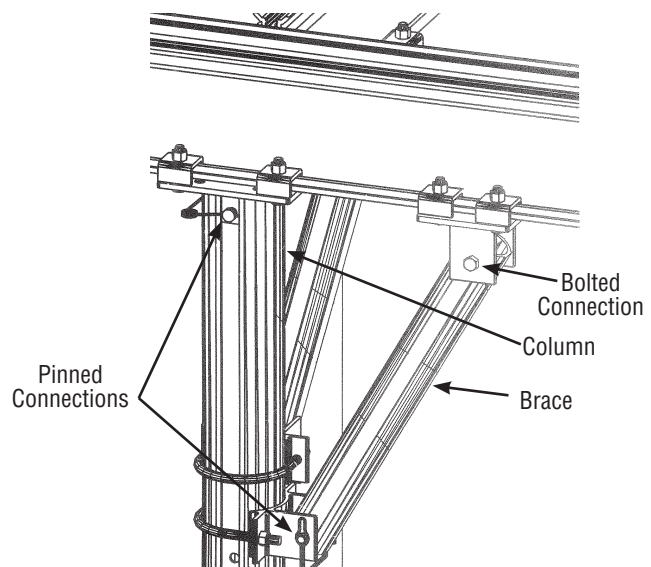
Understructure Framing Components

- Main framing (beams, columns & bracing): aluminum extrusion, natural mill finish.
- Component connection brackets: Mill finish aluminum or metallic gray powder coated steel. Exposed hardware: Zinc-plated finish.
- Main support beam extrusion shall contain two parallel tracks to allow two adjacent platform panels to be connected.
- Cross beam extrusion with single track for platform panel connection. Cross beam attached to main support beam with pin and socket design requiring no tools. Allow for angled adjustment as required for custom orchestra pit requirements.
- Deck units fasten to main and intermediate beams and remain acoustically isolated from each other, prohibiting noise from friction between deck units.



Column Assemblies

- Columns: Extruded structural aluminum shapes in lengths to provide platform heights, mill finish aluminum.
- Column to Main Support Beams: Pinned connection requiring no tools.
- Column Adjustment: Threaded foot for leveling. Adjustment range of the foot pad plus or minus 2" (5 cm).
- Bracing: Permanently attached to main support beams and cross beams. Bracing connection to columns is a pinned connection requiring no tools.



Orchestra Pit Filler / Stage Extensions

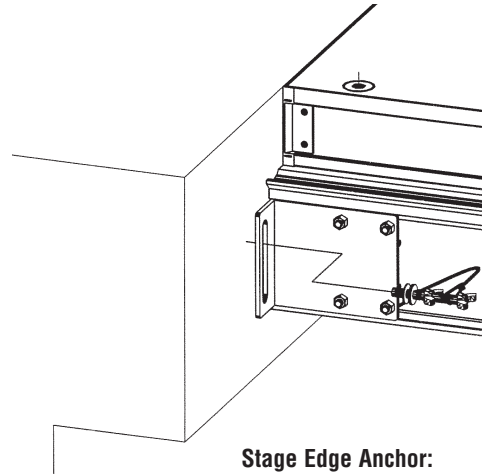
Application Information

Beam-to-Stage Lip Connection

- Each main beam is anchored to the stage lip with an adjustable beam-to-stage lip anchor bracket.
- Each anchor point consists of one threaded insert in the stage lip and one threaded locking device, 3/8" (9.5 mm) diameter (minimum).
- Stage lip must be designed to withstand a pull force of 150 lbs (60 kg) at each anchor.

Storage Carts

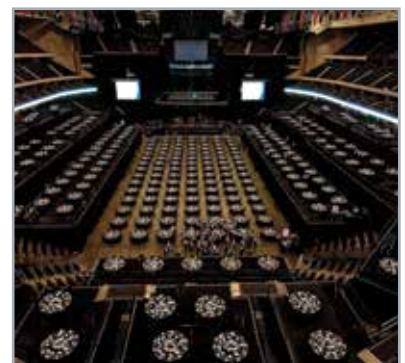
- Platform transport cart
- Frame transport cart
- Column/beam transport cart
- Carts equipped with 4 ball bearing casters with 8" (20 cm) wheels, each rated at 900 lbs (408 kg). Two casters swivel and two are rigid.



Stage Edge Anchor:

- 3/8" (9.5 mm) Brass Threaded Insert (Wood)
- 3/8" (9.5 mm) Hilti (or equivalent) Drop-In Anchor (Concrete)

Staging and Seated Riser Systems



Staging and Seated Riser Systems

Heavy-duty performance that's easy to use and a solid investment.



StageTek™ Staging & Seated Risers

Everything about StageTek™ is an advancement. The refined, smart design is the result of extensive research, engineering and technical advancements in materials and manufacturing. The result is a staging system that is lighter, stronger, easier to handle and faster to set up. When it comes to stretching your investment across multiple needs like seated risers and performance stages, StageTek sets a new standard. For unlimited flexibility, an extra set of legs stored inside your deck is all you will need – that's why we made the legs strong, simple and inexpensive. Compare Wenger's newest advancement in staging to any other option and see for yourself why your next stage will be StageTek.



STRATA® Event Staging

STRATA Event Staging offers exceptional ease, flexibility and a sleek appearance whether the performance is indoors or out. It's designed with a durable, non-slip, weather-resistant surface. STRATA is engineered to set up quickly and adjust to any terrain – even a hillside.”

Equal Access For All Performers, thanks to the Portable ADA-Compliant Disability Ramp

Wenger portable ramps are strong and stable, and they attach securely to Wenger staging units. This cost-effective ramping solution helps ensure that all performers have an equal chance to take the stage. 4'-wide (122 cm) ramps adjust to the exact height of stage elevation.



Meets the requirements as outlined in the 2015 INTERNATIONAL BUILDING CODE - SECTION 1012.



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Staging and Seated Riser Systems

Overview

Standard Options

	StageTek™ Staging System	STRATA® Event Staging
Elevation (fixed legs)	8" (20 cm) increments up to 40" (100 cm) Custom heights available	7" (18 cm) up to 10' (3 m)
Elevation (adjustable legs)	16" - 28" (40 - 70 cm) 24" - 40" (60 - 100 cm) 30" - 54" (80 - 140 cm)	6" - 48" (15 - 122 cm)
Top Material	Black textured, grey carpet, wood-tone hardboard or unfinished plywood	Black or sand polyglass, hardwood or unfinished plywood
Frame	4" (102 mm) extruded aluminum	Extruded aluminum
Standard Deck Sizes	3' x 3' (91 x 91 cm) 3' x 6' (91 x 183 cm) 3' x 8' (91 x 244 cm) 4' x 4' (122 x 122 cm) 4' x 6' (122 x 183 cm) 4' x 8' (122 x 244 cm) International Deck Sizes: 1x1 meter and 1x2 meters Pie shaped and custom decks are available	4' x 2' (122 x 61 cm) 4' x 4' (122 x 122 cm) 6' x 2' (183 x 61 cm) 6' x 4' (183 x 122 cm) 8' x 2' (244 x 61 cm) 8' x 4' (244 x 122 cm)

Custom Options

	StageTek™ Staging System	STRATA® Event Staging
Shapes	Available	Available
Tops	Available	Available
Finishes	Available	Available
Elevations	Available	Available
Adjustable Legs	Available	Available

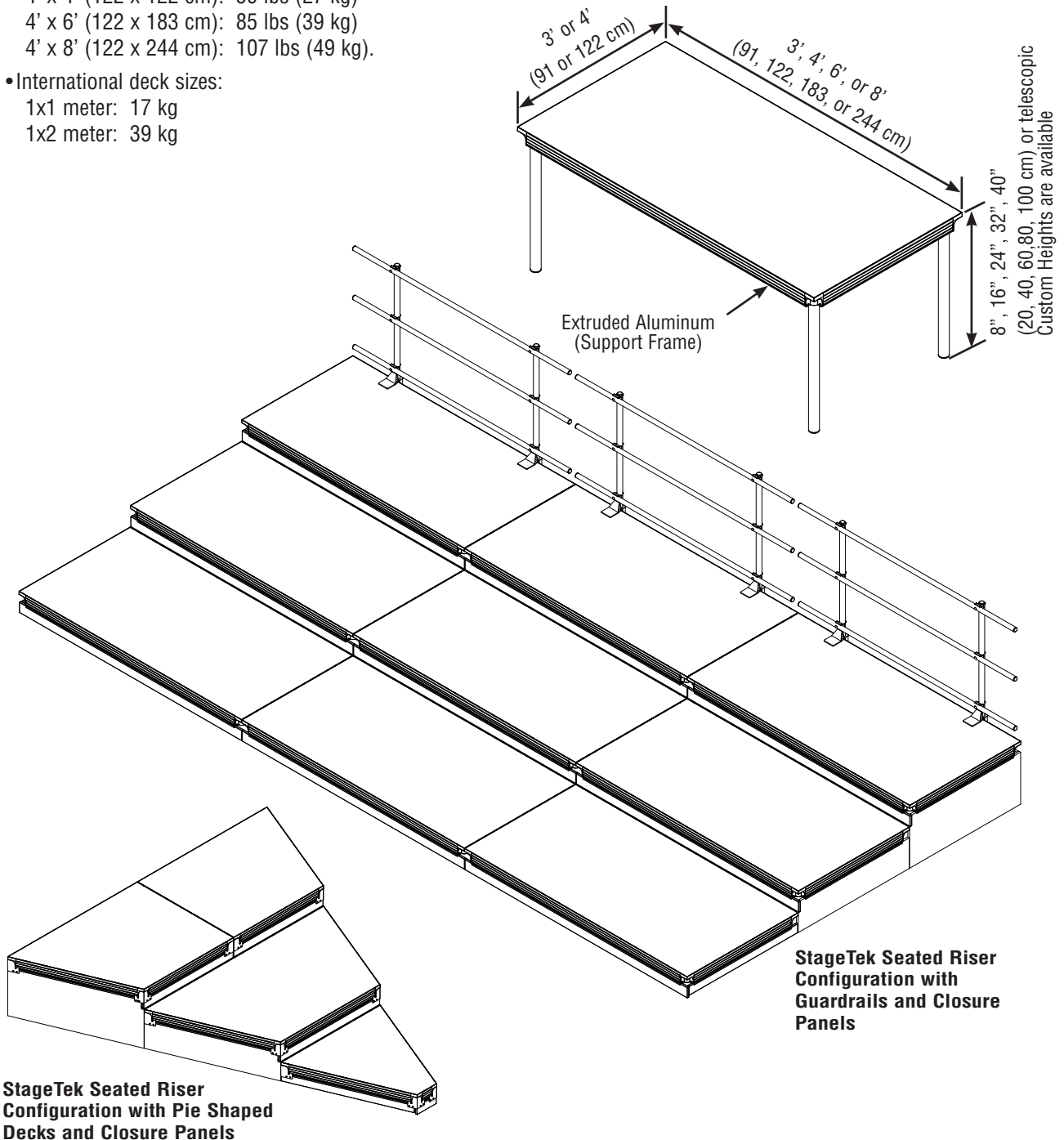
Staging and Seated Riser Systems

Application Information

StageTek™ Staging System Typical Unit

- Decks are available in the following sizes:
 - 3' x 3' (91 x 91 cm): 37 lbs (17 kg)
 - 3' x 6' (91 x 183 cm): 65 lbs (29 kg)
 - 3' x 8' (91 x 244 cm): 87 lbs (39 kg)
 - 4' x 4' (122 x 122 cm): 59 lbs (27 kg)
 - 4' x 6' (122 x 183 cm): 85 lbs (39 kg)
 - 4' x 8' (122 x 244 cm): 107 lbs (49 kg).
- International deck sizes:
 - 1x1 meter: 17 kg
 - 1x2 meter: 39 kg

- Pie Shaped and Custom Decks are available.
- StageTek is a highly flexible design and can be used to accommodate many unique and custom applications.
- Five-year warranty.

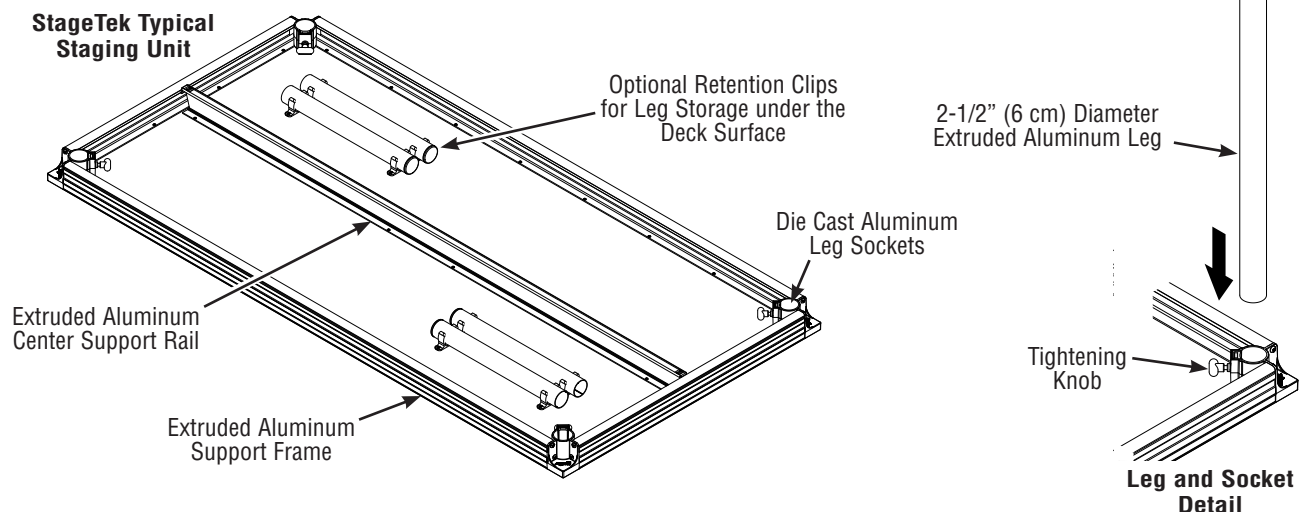


Staging and Seated Riser Systems

Application Information

StageTek Staging System Typical Unit (continued)

- Platform Decks are 3/4" (19 mm) thick and constructed of Group I veneer plywood with a protective laminate on both sides.
- Surface options:
 - Black Standard (Cracked Ice Polypopelyne)*: A slip resistant overlay recommended for general multi-purpose.
 - Black Versalite-Match (Moroccan)*: A slip resistant overlay that will match Wenger Versalite decks.
 - Black Heavy-Duty (Quadriple)*: An aggressive textured overlay for applications requiring greater slip resistance.
 - Natural Hardboard*: A 1/2" (12 mm) plywood bonded between two faces of 1/8" (3 mm) tempered hard-ply.
 - Carpeted*: Manufacturer's standard grey carpet over a 5/8" (16 mm) plywood core (contact Wenger for a sample).
 - Carpet Ready*: A 5/8" (16 mm) plywood core ready to receive carpet surface.
- StageTek Load Ratings as measured on a 4' x 8' (122 x 244 cm) Rectangular Deck:
 - Standard Uniform Load: 125 lbf/ft² (6 kN/m²).
 - Heavy-Duty Uniform Load*: achieved with center leg or smaller decks, 200 lbf/ft² (9.6 kN/m²).
 - Dynamic Live Load*: Side load of 15% of total Uniform Live Load which equals 600 lbf (2.7 kN) side load on a platform under a total Uniform Live Load of 4,000 lbf (17.8 kN).
 - Point Load*: 1,500lbf (6.7 kN) applied via 1" (2.5 cm) diameter pin.
- Standard rectangular decks feature spaces under each platform unobstructed by folding frames or braces allowing for easy storage/stowage space under the system.
- The Frame and edging are fabricated from 4" (102 mm) thick aluminum extrusion. The extrusion is designed with a slight recess for hook and loop skirting attachment and also features notches hidden on the inside of the frame to accept accessory attachments.
- An aluminum extrusion center support rail is featured on deck sizes 4' x 8' (122 x 244 cm), 4' x 6' (122 x 183 cm) and 3' x 8' (91 x 244 cm).
- The frame is designed for safer, easier handling and features rounded contours ergonomically sized for a secure power grip (closed grip).
- Standard unit-to-unit connectors are 2" (5 cm) wide, heavy-duty hook-and-loop straps with a metal D-Ring. Two are provided with each rectangular deck to connect unit legs together.



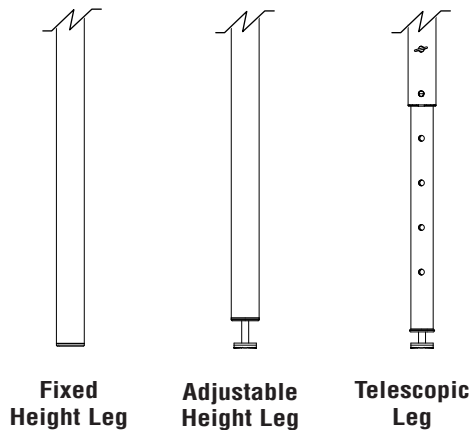
Staging and Seated Riser Systems

Application Information

StageTek Staging System Typical Unit (continued)

Leg Options

- Available leg options include Fixed Height, Adjustable Height and Telescopic.
- Standard rectangular decks have four die cast aluminum leg sockets. Legs are quickly secured with the rotation of the knob.
- Standard legs are fabricated from 2-1/2" (6 cm) diameter aluminum extrusions and are finished with non-marring cap.
Available in lengths that result in the following deck heights:
8" (20 cm), 16" (40 cm), 24" (60 cm), 32" (80 cm) and 40" (100 cm).
- Adjustable telescopic legs feature a threaded leveling foot finished with a rubber pad and non-rattling telescopic adjustment secured with a quick-release pin.
Available in lengths that result in the following deck heights:
16"-28" (40-70 cm), 24"-40" (60-100 cm) and 30"-54" (80-140 cm).
- Custom leg sizes are available.



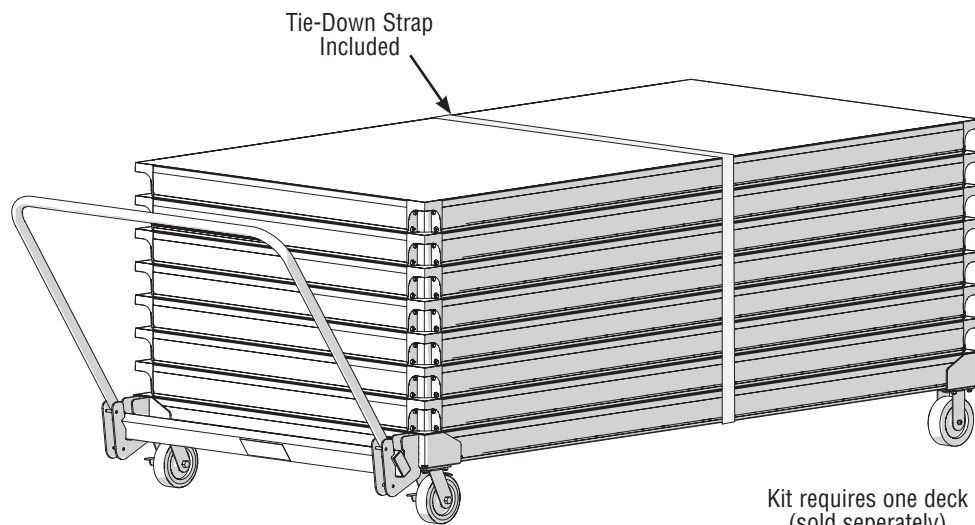
Staging and Seated Riser Systems

Application Information

StageTek Staging System Accessories

StageTek Horizontal Storage Cart

- Four casters and one handle are included.
- Two brackets have fixed casters and two have swivel casters with brakes.
- Casters are 600 lbs (270 kg) capacity each.
- Cart is rated up to ten 4' x 8' (122 x 244 cm) platforms with legs.
- Tie-down strap provided.
- Removable handle provided on swivel end to allow pushing, pulling and turning.
- Handle and caster units are heavy gauge steel welded with black powder-coat paint finish.
- Requires double doorway with center post removed. Minimum width: 50" (127 cm).
- We recommend platforms be stacked face to face to prevent scratching.
- Five-year warranty.



Staging and Seated Riser Systems

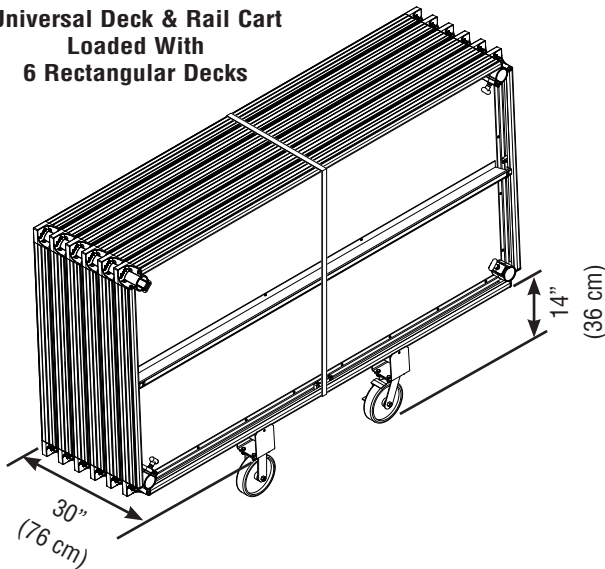
Application Information

StageTek Staging System Accessories (continued)

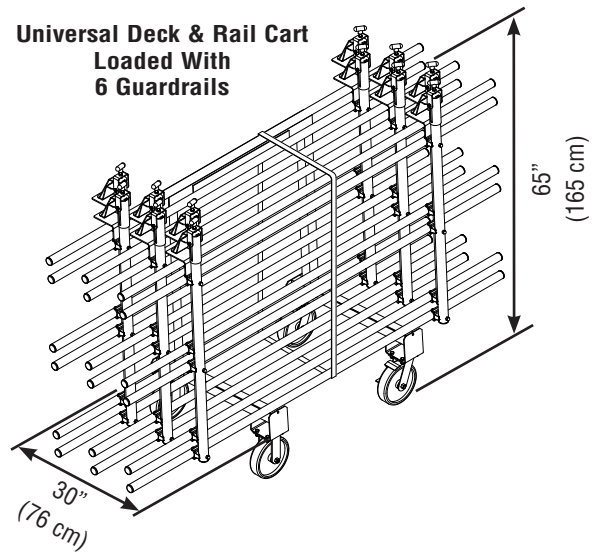
Universal Deck & Rail Cart

- 85 lbs (38 kg). Fits through a 32" (81 cm) door.
- Holds 6 StageTek Rectangular Decks or 6 StageTek Guardrails.
- Decks and guardrails can be mixed on the same cart.
- Ideal for non-rectangular units such as pie shapes used in seated risers and oversize units.
- Heavy-duty, non-marring locking casters. Ratcheting nylon safety strap.

Universal Deck & Rail Cart
Loaded With
6 Rectangular Decks

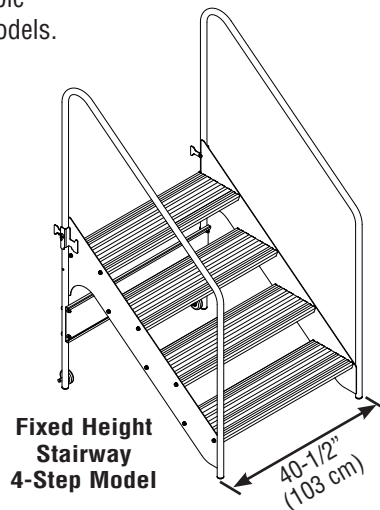


Universal Deck & Rail Cart
Loaded With
6 Guardrails

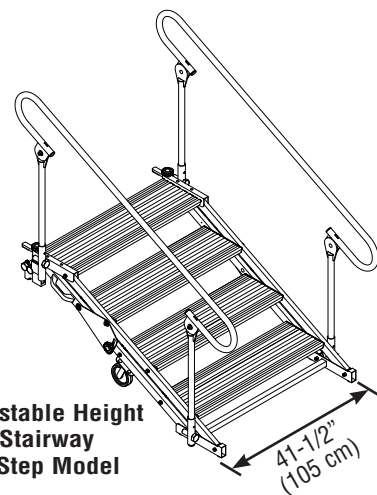


Stairways – Fixed Height and Adjustable

- Fixed Height Stairways are available in 2-step: 55 lbs (25 kg), 3-step: 76 lbs (34 kg) and 4-step: 94 lbs (43 kg) models.
- Adjustable Stairways are ideal for custom-height systems and for systems that are frequently set up at different heights.
- Adjustable Height Stairways are available in 3-step, 4-step, 6-step and 8-step models.
- Stairways feature a hook bracket that will work with StageTek, Versalite, Trouper and Type-C stage systems from Wenger.
- Stairs feature aluminum extruded treads and include permanent handrails on both sides.



Fixed Height
Stairway
4-Step Model



Adjustable Height
Stairway
4-Step Model

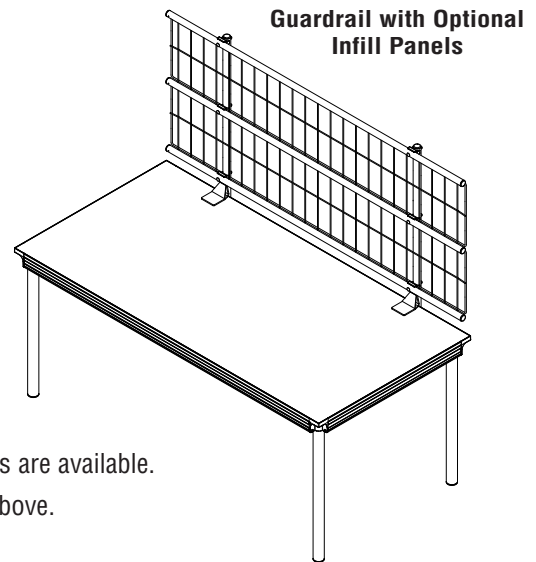
Staging and Seated Riser Systems

Application Information

StageTek Staging System Accessories (continued)

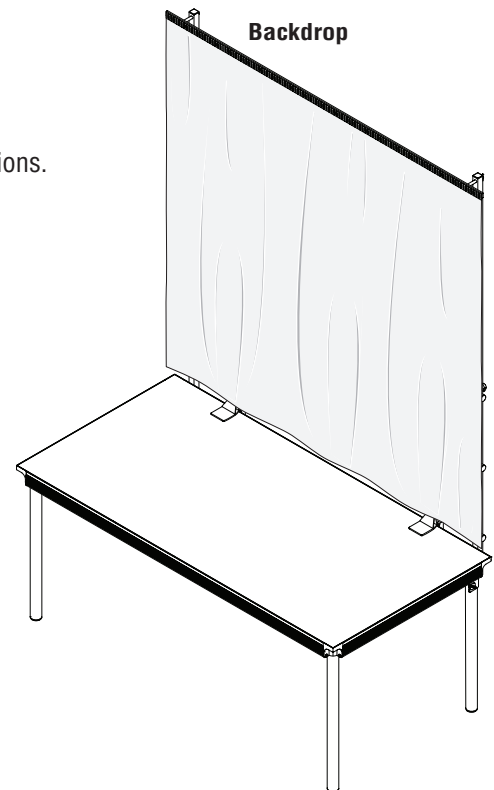
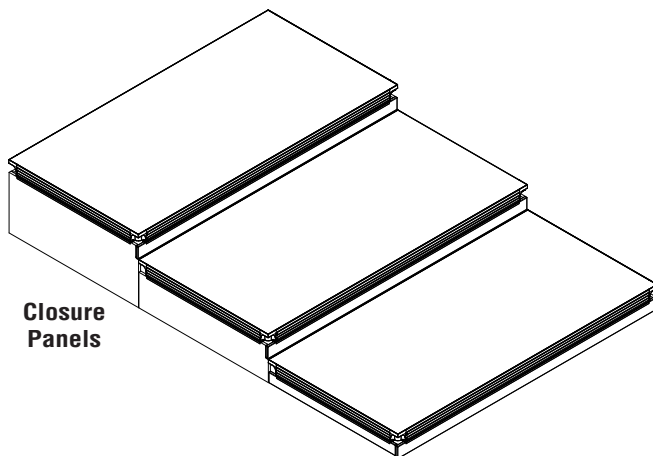
Guardrails

- Guardrails comply with IBC code requirements for loading.
- Guardrails feature two uprights and two cross bars. Optional infill panels can be added that complies with the IBC 4" (10 cm) sphere code. Guardrails can function as a chair stop.
- Guardrails are 42" (107 cm) high with a black powder-coat paint finish.
- Guardrails clamp to the stage deck without the need for tools.
- Clamps, Connectors and Braces
- Optional Retention Clips for leg storage mount under the deck to provide retained leg storage.
- A variety of metal leg to leg, leg to deck, overlap and anchor brackets are available.
- Stabilizing braces are recommended for heights 40" (102 cm) and above.
- Optional deck-to-deck cam locks are built into the deck frame. Cams can be locked or opened via a small tool access hole on top of the platform.



Drapery and Closure Panels

- Drapery is available in heights to match the staging elevation and in a wide variety of colors. 100% fire retardant woven polyester. Attaches with hook and loop fastening strips.
- Backdrop frame attaches to guardrails and positions a drapery 8' (244 cm) above the stage. Available in 4' (122 cm), 6' (183 cm), and 8' (244 cm) widths.
- Solid side and front closures are ideal for seated riser systems. Constructed of the same material as the deck with the same surface options. Edges are finished in a thermofused black edge band. Connects to the rail without tools via an extruded PVC clip running the length of the closure.



Staging and Seated Riser Systems

Application Information

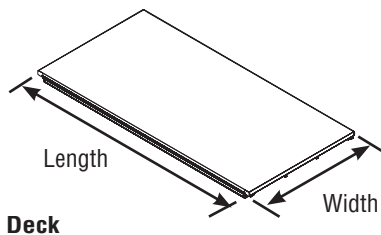
STRATA® Event Staging Typical Unit

Intended Use - Major Events, Tent Floors and Outdoors

- Decks can support uniform loading of 125 lb/ft² (610 Kg/m²).
- Staging height can be constructed from 7" (17.8 cm) to a maximum height of 10' (3.05 m). Diagonal bracing is required for all stages higher than 24" (61 cm). Cross bracing is required for all stages higher than 48" (1.22 m).
- Pass-through openings and holes can be cut into deck surfaces.

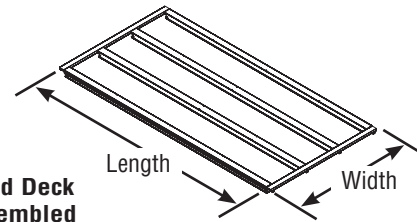
Finished and Plywood Deck Specification

- Five year warranty.
- Finished Deck construction is a 3/4" Exterior grade plywood with a black or sand polyglass or hardwood top surface and aluminum edging. The deck is weather resistant and ultra-violet stable.
- Plywood Deck construction is a 3/4" Exterior grade, unfinished plywood sheet.
- Beam frame components that support the deck surface are aluminum extrusions.
- Uniform load capacity is 125 lb/ft² (610 kg/m²).
- Decks are shipped ready-to-use on a shipping pallet.
- Deck sizes are:
 - 8' x 4' (244 x 122 cm)
 - 6' x 4' (183 x 122 cm)
 - 4' x 4' (122 x 122 cm)
 - 8' x 2' (244 x 61 cm)
 - 6' x 2' (183 x 61 cm)
 - 4' x 2' (122 x 61 cm)



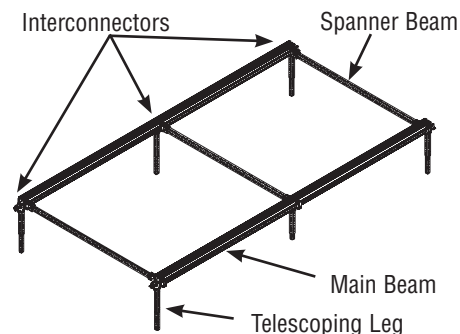
Plywood Deck Kit Specifications

- Five-year warranty.
- Frame components, aluminum extruded beams, are shipped ready-to-assemble with detailed instructions.
- The plywood deck surface, supplied by user, should meet or exceed 3/4" plywood grade C-C Exterior, C-C PTS (plugged and touch sanded), or B-C Sanded standards.
- Available sizes are the same as the Finished Deck.



Leveled Understructure Specifications

- Main Beams, extruded aluminum, are available in lengths from 2' (61 cm) to 16' (488 cm) in 2' (61 cm) increments.
- Spanner Beams, 2" square galvanized steel perforated tube, are available in lengths from 2' (61 cm) to 8' (244 cm) in 2' (61 cm) increments. Each Spanner Beam is shipped with a pair of formed steel diagonal braces which should be used when the Leveled Deck is higher than 2' (61 cm).
- Telescoping Legs, 2" and 1-3/4" square galvanized steel perforated tube, are available in lengths from 6" (15.2 cm) to 48" (122 cm) in 6" (15.2 cm) increments.
- Lower telescoping leg, 1-3/4" square. Upper telescoping leg, 2" square.
- Interconnectors allow connecting spanner beams to main beams and to telescoping legs are made of formed and welded steel, powder-coat painted.
- Main Beam Diagonal Braces, painted formed steel must be used for stages higher than 24" (61 cm).



Staging and Seated Riser Systems

Application Information

STRATA Tent Floor Specifications

Double Beam Cap, extruded aluminum, is available in lengths from 8' (2.44 m) to 2' (61 cm) in 2' (61 cm) increments and supports adjacent decks (edge-to-edge).

Single Beam Cap, extruded aluminum, is available in lengths from 8' (2.44 m) to 2' (61 cm) in 2' (61 cm) increments and supports only the edge of a single deck.

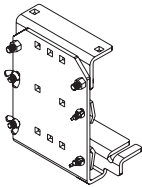
Double Beam Cap Profile suitable to use with a 2x4 (61 cm x 122 cm) wood board.



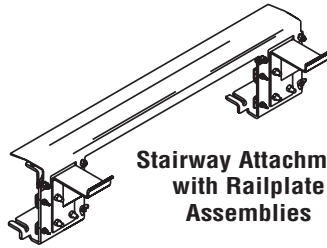
Single Beam Cap Profile suitable to use with a 2x2 (61 x 61 cm) wood board.



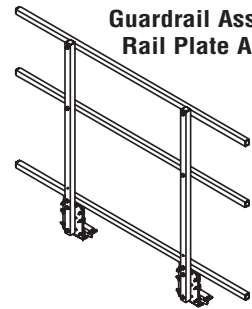
STRATA Accessories



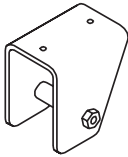
Rail Plate Assembly



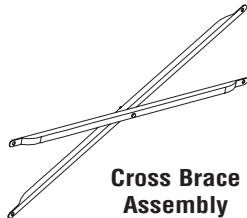
Stairway Attachment with Railplate Assemblies



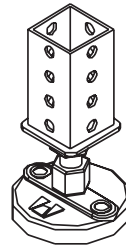
Guardrail Assembly with Rail Plate Assemblies



Beam Link Assembly



Cross Brace Assembly



Articulating Leveling Foot

Staging and Seated Riser Systems

Application Information

Seated Riser Sections

Rectangular Section

- Consists of three or four individual platforms and three or four elevations.
- Platform sizes are 4' x 8' (1.2 x 2.4 m) or 4' x 6' (1.2 x 1.8 m) for band/orchestra, and 3' x 8' (0.9 x 2.4 m) or 3' x 6' (0.9 x 1.8 m) for choral.
- Each elevation detaches for relocating or re-configuring at user's option.

Pie-Shaped Section

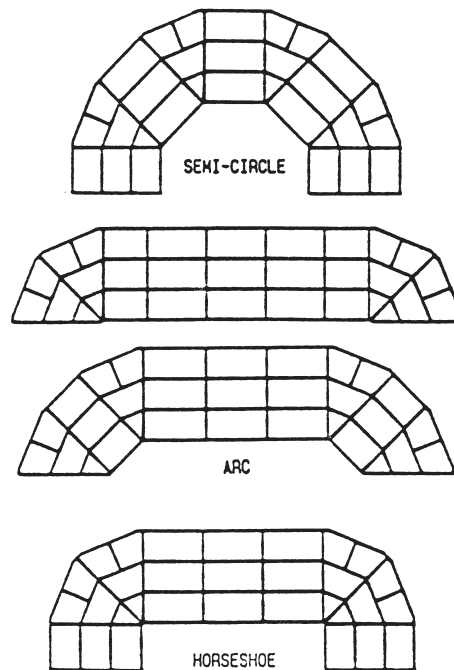
- 4' (1.2 m) depth platforms for band/orchestra, 3' (0.9 m) depth platforms for choral.
- When combined with rectangular sections, pie sections allow you to configure sets of risers in a number of ways, as shown.

Optional Seated Riser Accessories

- Transport Carts
- Stairways
- Front and end closure panels
- Drapery closures
- Ramps
- Guardrails.

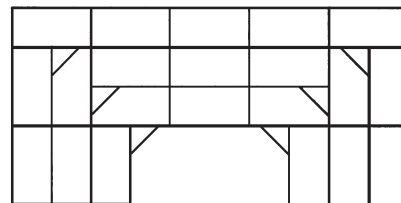
Seated Riser Shapes

A riser set may consist of any number of rectangular sections, as well as two or four pie-shaped sections. The sections can be arranged in a variety of ways to provide flexibility in fitting different room dimensions.



Risers can also be configured primarily with rectangular units and tri-corners to “round out” the corners as shown below.

Typically, these are used only for band risers, using 4' (1.2 m) wide units. They usually provide greater seating capacity per square foot of floor area used.



Staging and Seated Riser Systems

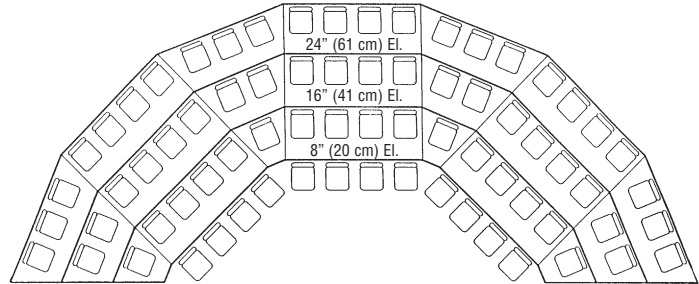
Application Information

Example of Choral Seated Risers

Typical Choral Seated Riser with chairs.

All choral riser set capacities are estimated using 26" (66 cm) spacing per student. This spacing allows for adequate access to fresh air during active choral rehearsal.

The 3' (91 cm) riser depth is sufficient for traffic needs and seating comfort where music stands are not required. The 4' (122 cm) riser depth allows for music stands and instrument use on the risers.

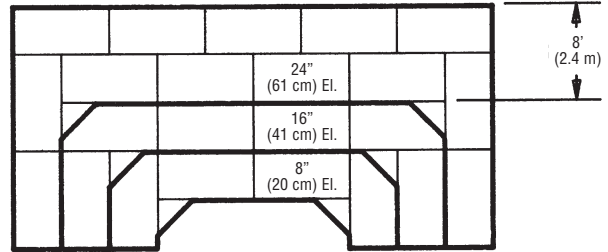
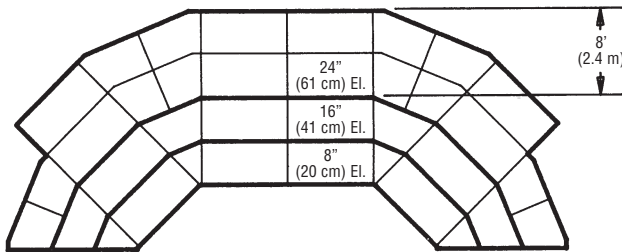
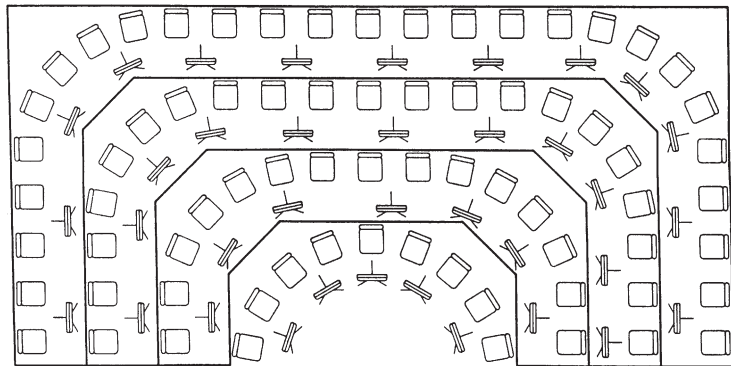


Example of Band/Orchestra Seated Risers

Typical Band/Orchestra Seated Riser with chairs and music stands.

All band riser set capacities are estimated using 32" (81 cm) spacing per student. The back row of the riser is often used for large percussion instruments, or string bass in orchestras, and thus the total seating capacities may be less than the quantities given.

It is advisable to allow extra space for larger instruments, such as percussion or bass, at the back of the riser. This can be accomplished as shown below by adding a second row of units to the highest elevation to provide an 8' (2.4 m) deep area.

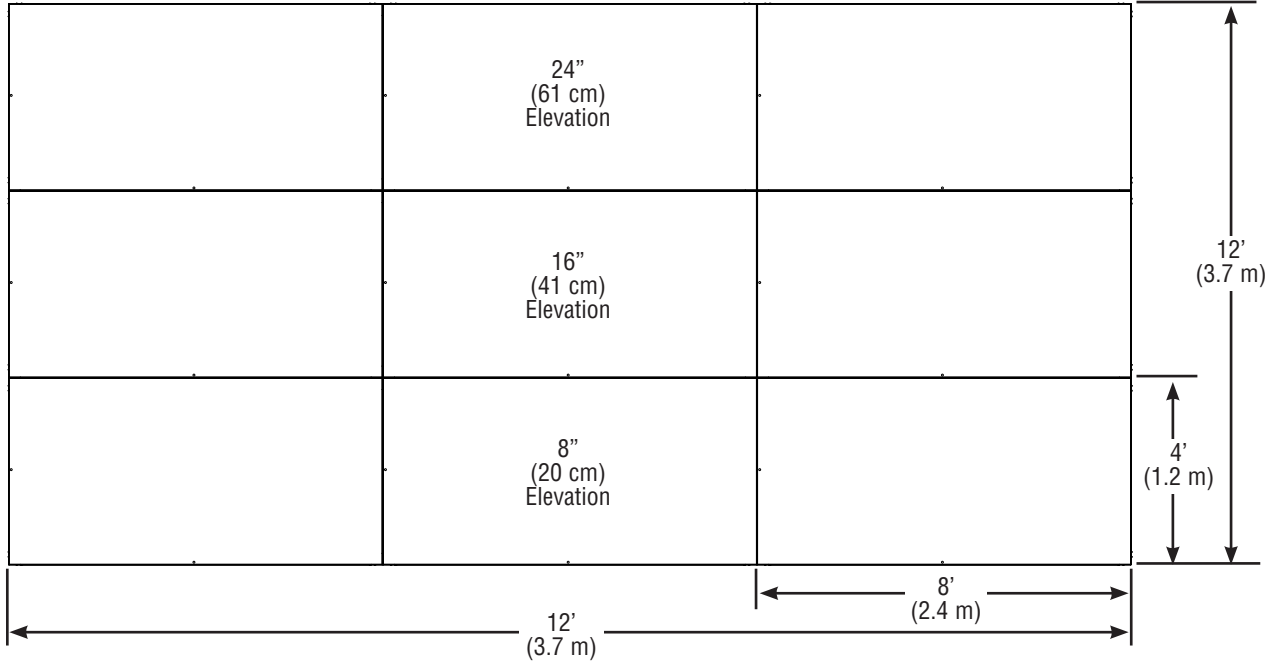


Staging and Seated Riser Systems

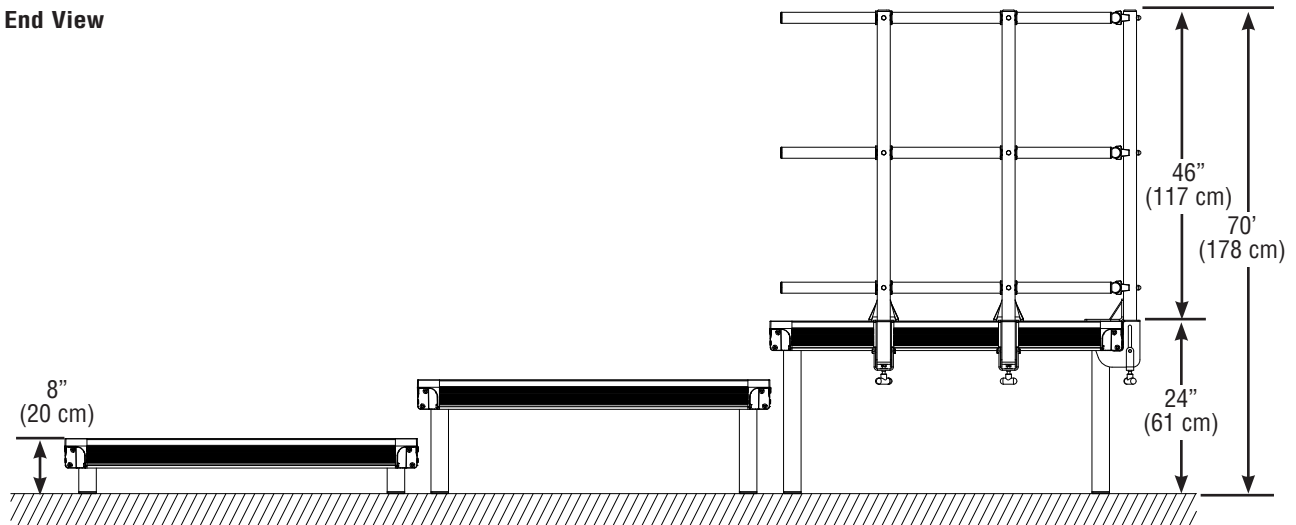
Typical Drawings

StageTek Seated Risers Typical Unit

Plan View



End View



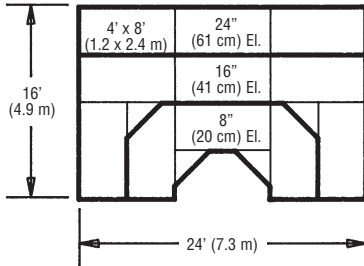
NOTE: Stabilizers are not shown but are required for elevations greater than 40" (102 cm).
Frame to leg clamps are not shown.

Staging and Seated Riser Systems

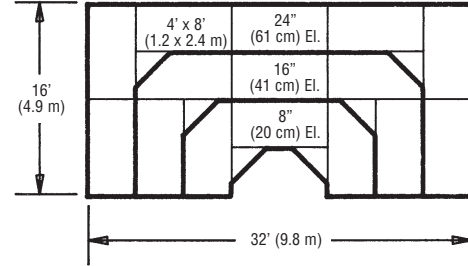
Typical Drawings

Rectangular Seated Band/Orchestra Riser Configurations

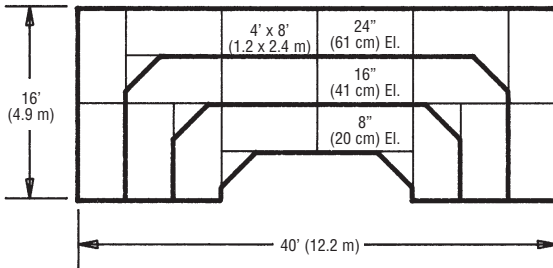
SEATS 33 (36 W/FLOOR)



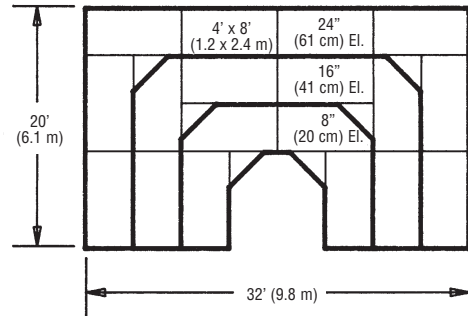
SEATS 45 (48 W/FLOOR)



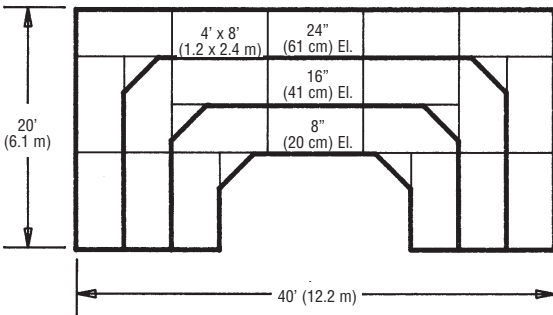
SEATS 54 (60 W/FLOOR)



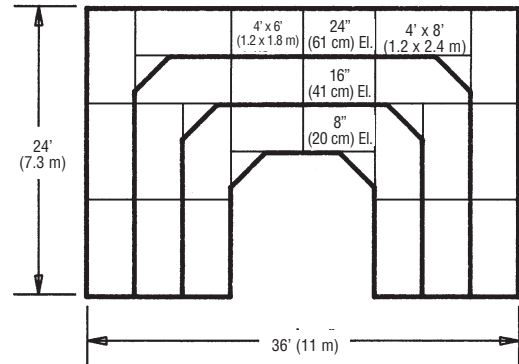
SEATS 54 (61 W/FLOOR)



SEATS 63 (72 W/FLOOR)



SEATS 66 (76 W/FLOOR)



NOTES:

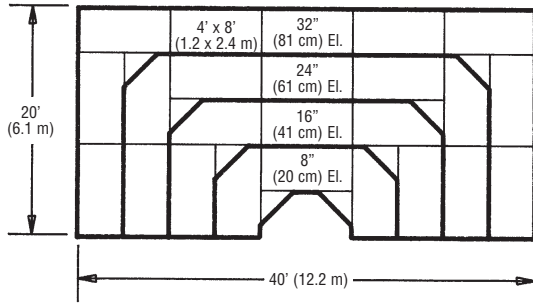
- All band riser set capacities are estimated using 32" (81 cm) spacing per student.
- Additional sets and custom sizes/configurations are available; please call for details.
- Drawings not to scale.

Staging and Seated Riser Systems

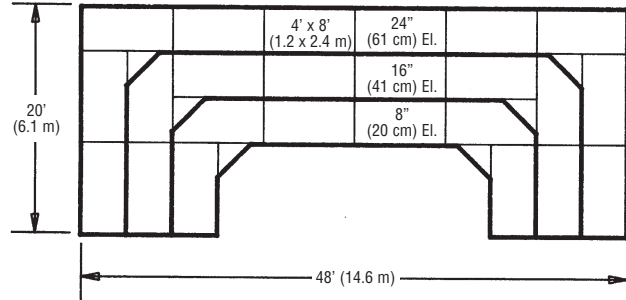
Typical Drawings

Rectangular Seated Band/Orchestra Risers

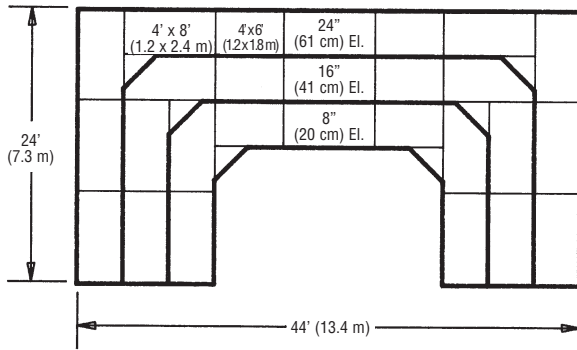
SEATS 72 (75 W/FLOOR)



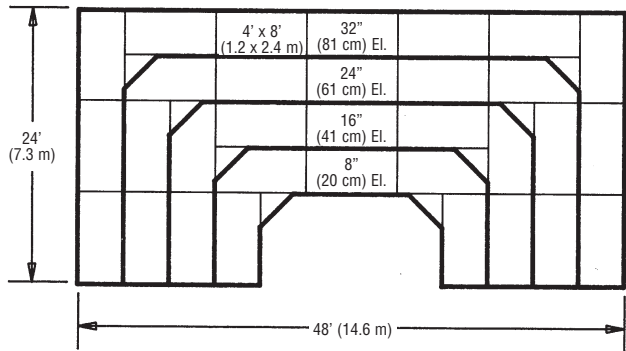
SEATS 72 (84 W/FLOOR)



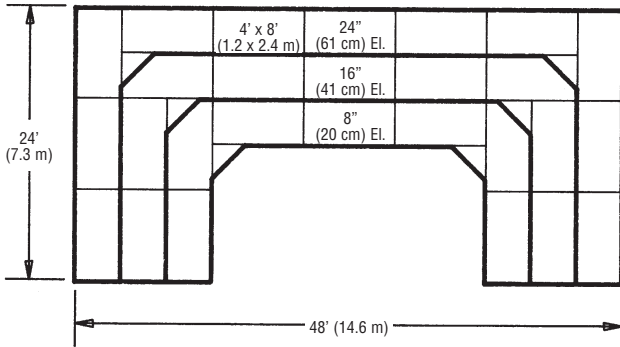
SEATS 75 (88 W/FLOOR)



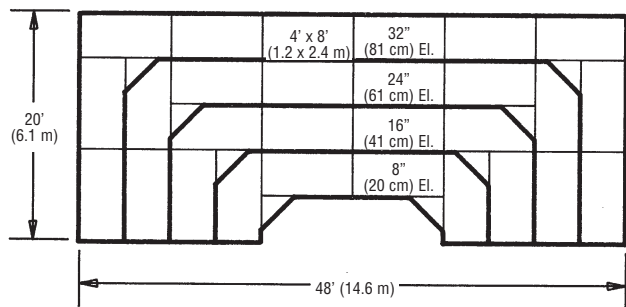
SEATS 96 (105 W/FLOOR)



SEATS 81 (96 W/FLOOR)



SEATS 84 (90 W/FLOOR)



NOTES:

- All band riser set capacities are estimated using 32" (81 cm) spacing per student.
- Additional sets and custom sizes/configurations are available; please call for details.
- Drawings not to scale.

Staging and Seated Riser Systems

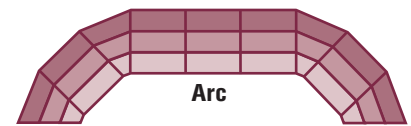
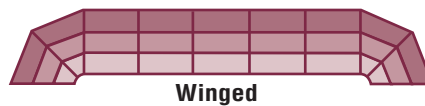
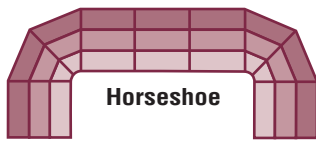
Application Information

Seated Riser Building Blocks

Each riser set combines some, or all, of the “building blocks” shown here. The number of building blocks and the number levels determines the final size of the riser and its capacity.

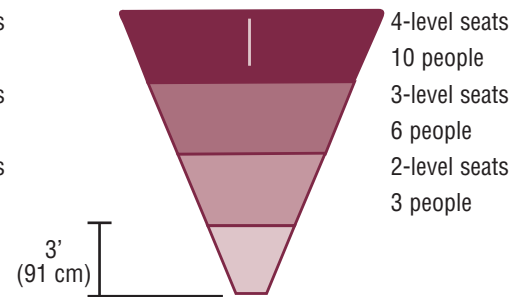
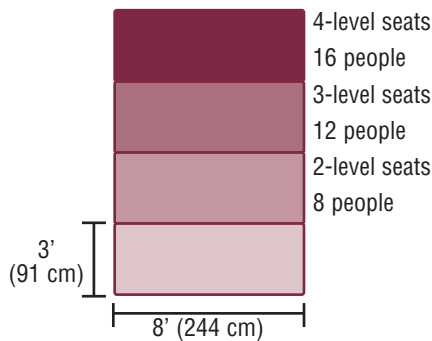
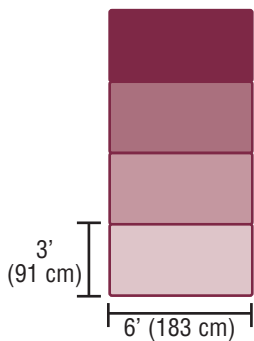
Creating different shapes with one seated riser set

Pie sections are the key to creating different shaped configurations. As illustrated here, one seated riser set can be arranged in several different shapes by changing the position of the pie section. This seated riser set is made up of five straight sections and four pie sections



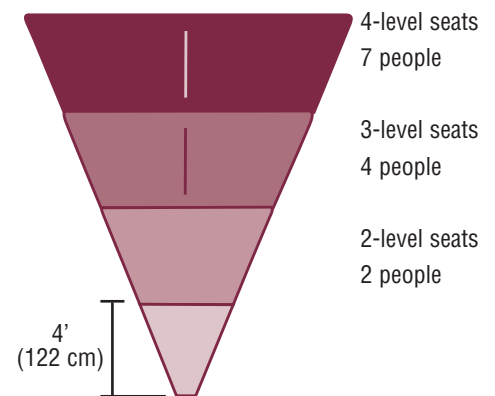
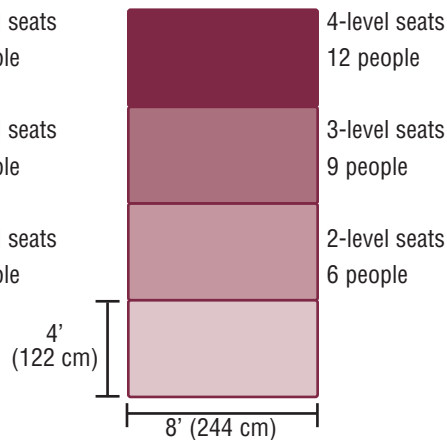
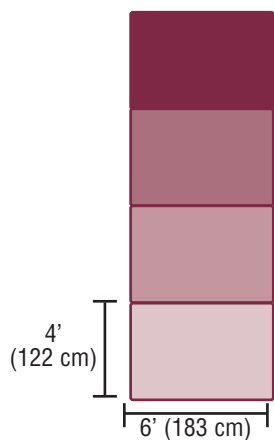
3' (91 cm) Risers:

Platforms are 3' (91 cm) deep and seating capacity is based on 26" (66 cm) chair spacing.



4' (122 cm) Risers:

Platforms are 4' (122 cm) deep and seating capacity is based on 32" (82 cm) chair spacing.

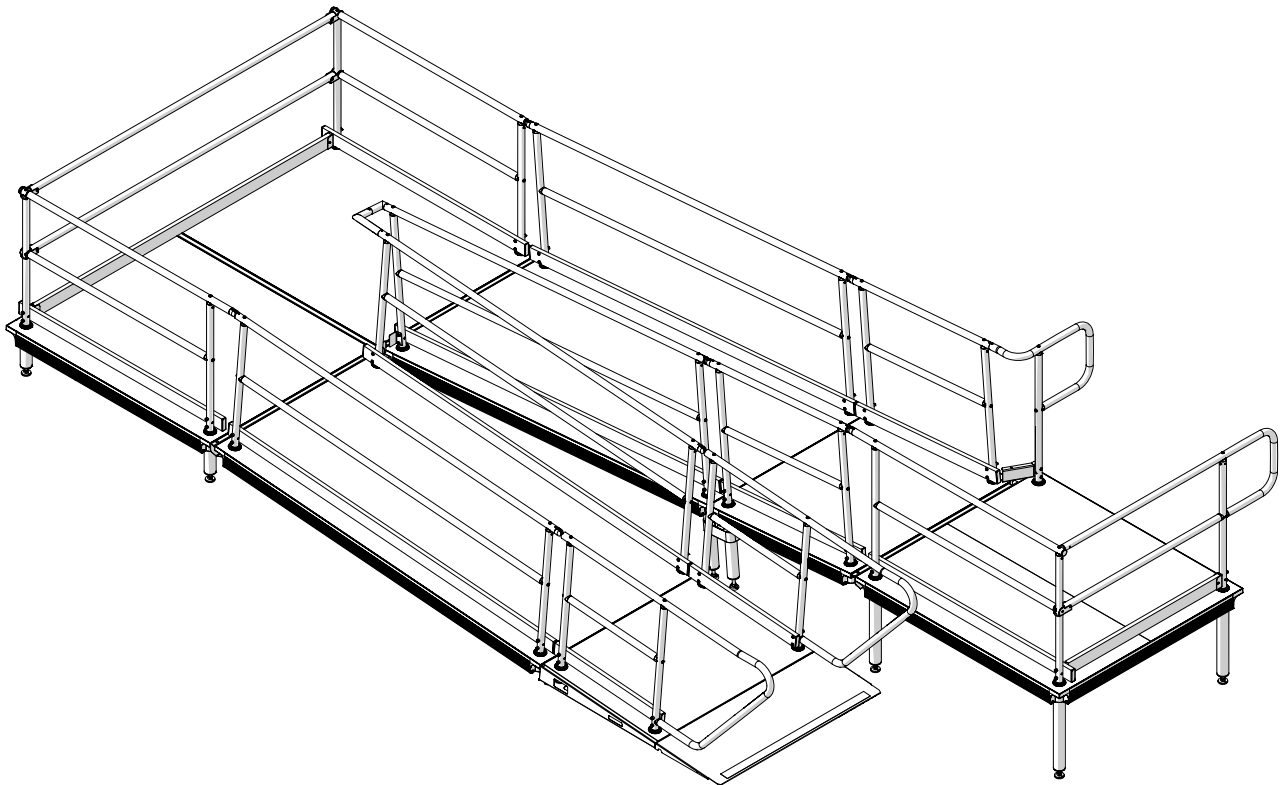


Staging and Seated Riser Systems

Application Information

ADA Ramp

- Ramp design meets all guidelines of the Americans with Disabilities Act (ADA) according to the 2015 International Building Code (IBC) - Section 1012.
 - Slope is not steeper than one unit vertical in twelve units horizontal (1:12).
 - Hand rails are continuous throughout ramp.
 - Clear width on ramp is a minimum of 36" (91 cm).
 - Landings are a minimum of 60" x 60" (152 x 152 cm) at any direction change.
 - Railings extend 12" (30 cm) at end of handrails.
 - Contrasting color indications designate any elevation changes.
- Ramp design allows for different ramp configurations depending upon your needs.
- Compact storage is ideal for facilities that have limited storage space.
- Parts are labeled for quick set-up.
- Ramp surface comes standard with slip-resistant Quadriple surface. Additional surfaces are available by request.
- Adjustable legs are provided for easy leveling on uneven surfaces.
- Ramp design and brackets allow for attachment to StageTek™ or Versalite® stages.
- Five-year warranty.
- Optional mid-rails are available.

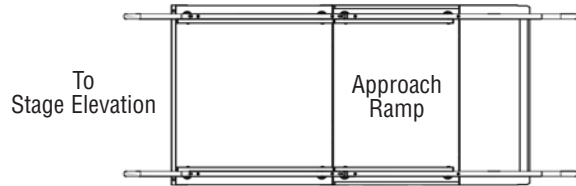


Staging and Seated Riser Systems

Typical Layouts

16" (41 cm) Elevation Ramps

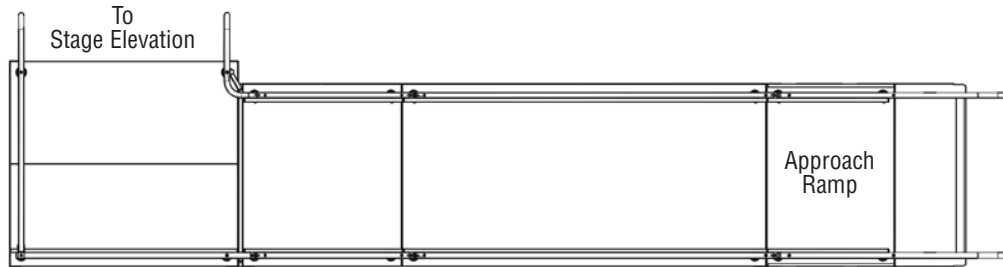
282A010 - 8" (20 cm) Elevation Only



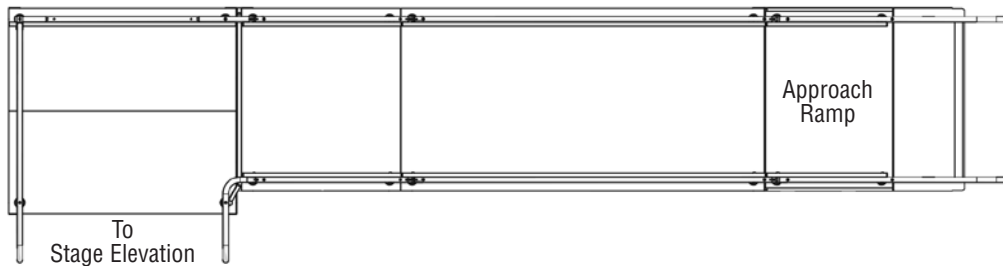
282A011 - 16" (41 cm) Elevation Only



282A012 - 16" (41 cm) Elevation with Right Hand Landing



282A013 - 16" (41 cm) Elevation with Left Hand Landing



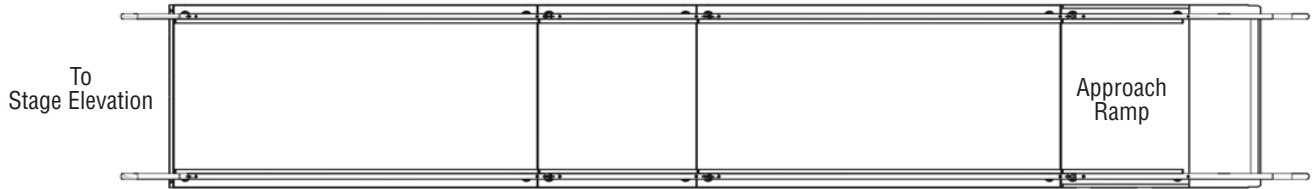
NOTE: Additional options and custom configurations are available, contact Wenger.

Staging and Seated Riser Systems

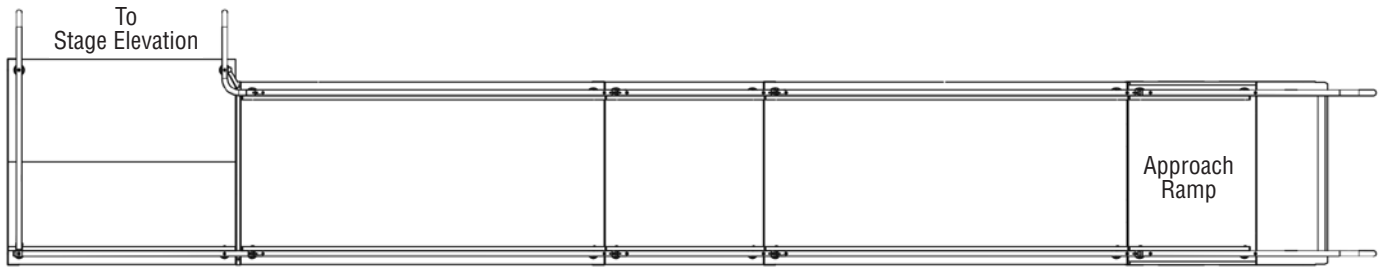
Typical Layouts

24" (61 cm) Elevation Ramps

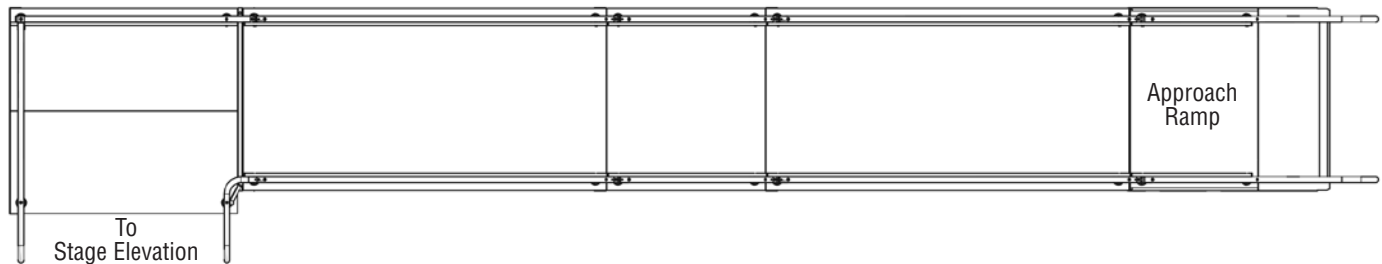
282A014 - 24" (61 cm) Elevation Only



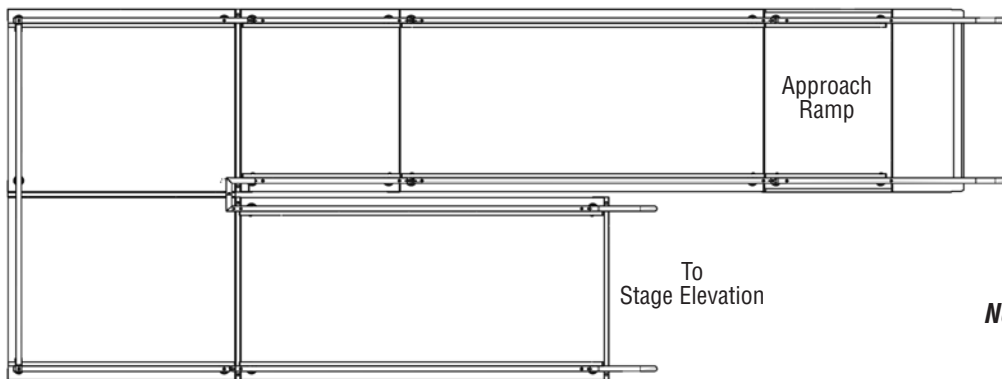
282A015 - 24" (61 cm) Elevation with Right Hand Landing



282A016 - 24" (61 cm) Elevation with Left Hand Landing



282A017 - 24" (61 cm) Elevation with Left Hand Switch



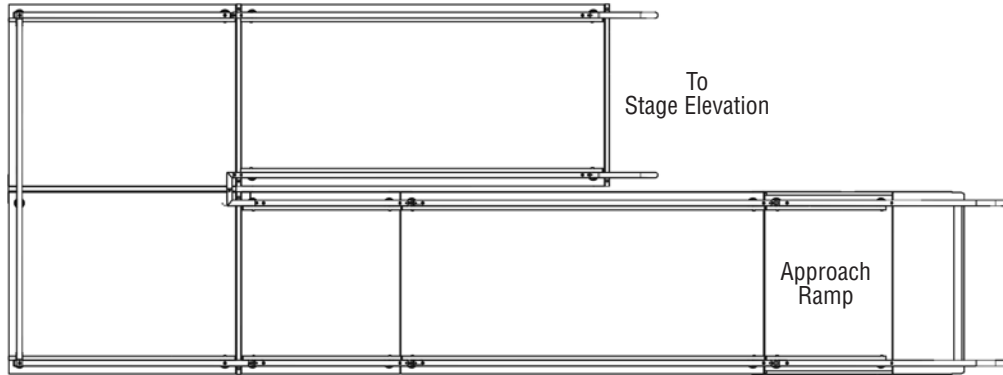
NOTE: Additional options and custom configurations are available, contact Wenger.

Staging and Seated Riser Systems

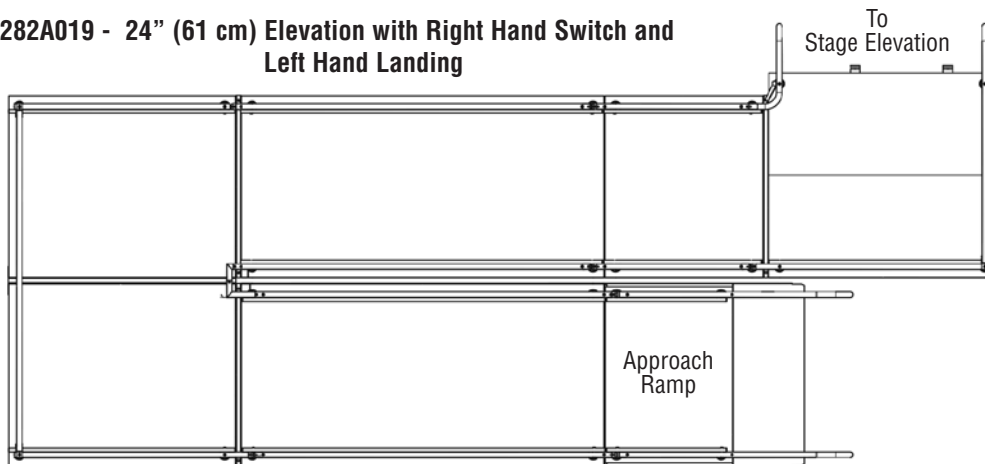
Typical Layouts

24" (61 cm) Elevation Ramps (continued)

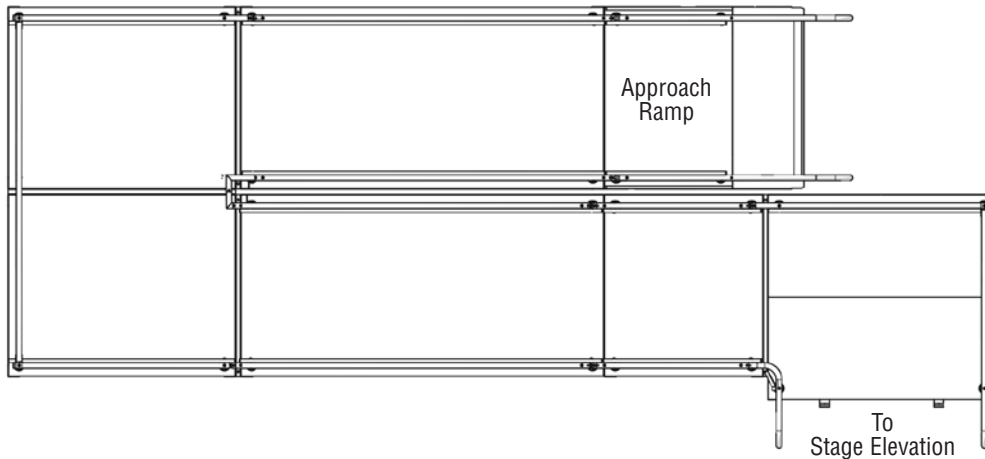
282A018 - 24" (61 cm) Elevation with Right Hand Switch



282A019 - 24" (61 cm) Elevation with Right Hand Switch and Left Hand Landing



282A020 - 24" (61 cm) Elevation with Left Hand Switch and Right Hand Landing



Staging and Seated Riser Systems

Application Information

Miscellaneous information

Technical Sheets are included for:

- Roll-A-Deck®
- Stage Boxes
- FlipForms®

TECHNICAL SHEET

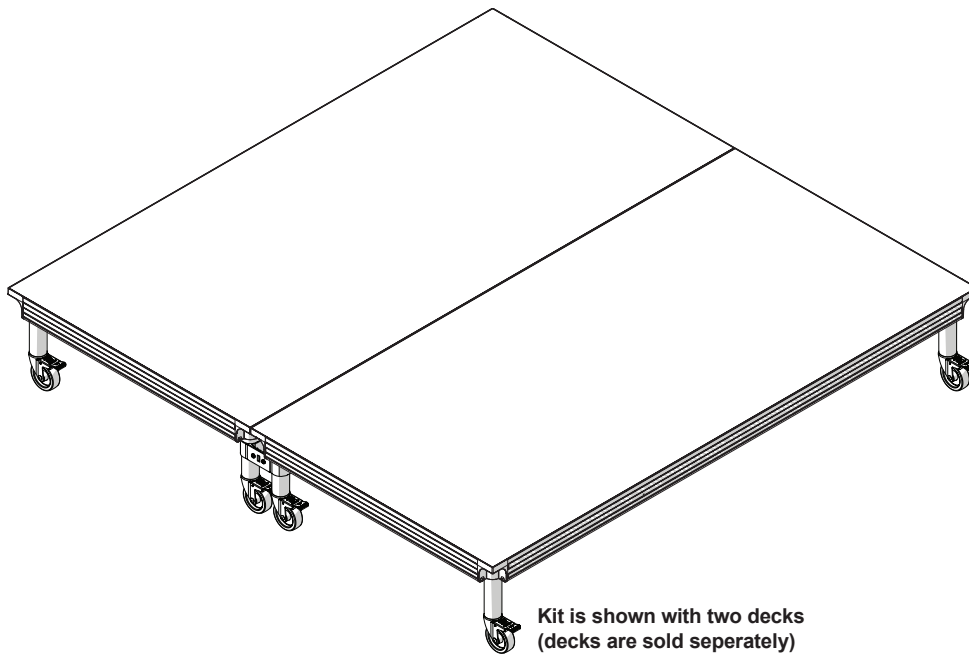
Wenger®
Your Performance Partner

StageTek™ Roll-a-Deck® Kit

- 280B550 Each kit contains four legs and one connection bracket.
- Designed for rectangular StageTek decks (ordered separately).
- Standard deck finished height elevations are between 12-1/4" and 24" (31 and 61 cm). Higher elevations require the use of stabilizers (ordered separately).
- 9" (23 cm) minimum elevation is possible if the decks have cam locks, connector brackets are not used at this elevation.
- Tubular aluminum legs with steel inserts and four easy-rolling, lockable casters.
- 5" (13 cm) diameter polyolefin casters are rated for 700 lbs. (317 kg) each. All casters lock both the wheel and swivel for added stability.
- Maximum load capacity is 1600 lbs (726 kg) per deck.
- Guardrails are recommended for elevations over 16" (40 cm).
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Five-year warranty.

Optional Accessories

- Chair stops, backdrops and leg retention clips are available.



Kit is shown with two decks
(decks are sold separately)

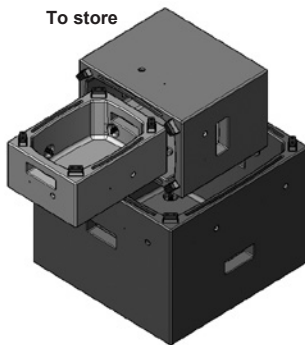
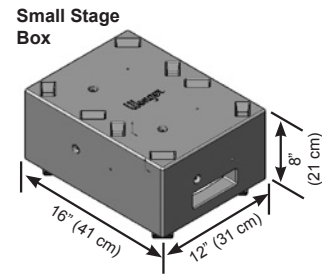
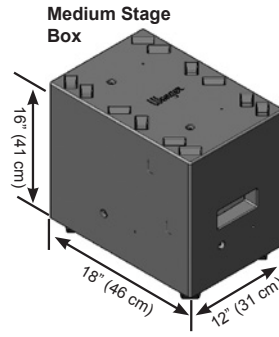
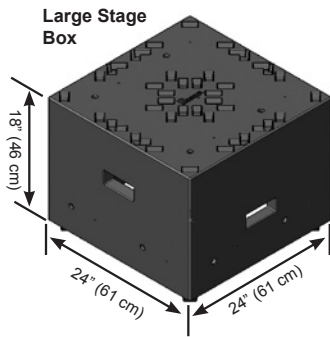
2017-01

TECHNICAL SHEET

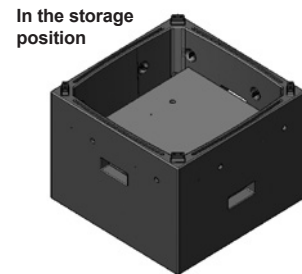
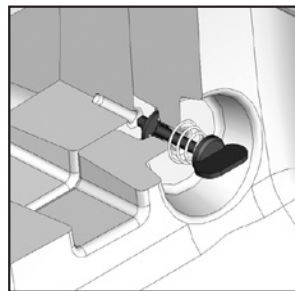


Stage Boxes

- 029A105 Black, 24" x 24" x 18" (61 x 61 x 46 cm), 32 lbs (14.5 kg)
- 029A104 Black, 18" x 12" x 16" (46 x 31 x 41 cm), 16 lbs (7.25 kg)
- 029A103 Black, 16" x 12" x 8" (41 x 31 x 21 cm), 8 lbs (3.6 kg)
- 029A098 3-Pack Set, black (54 lbs) (24.5 kg).
- Boxes are sized to mimic basic furniture items and correlate with Wenger staging and flipFORMS® units.
- Rotationally molded linear low-density polyethylene provides durability and longevity.
- Shell has skid resistant texture molded into surface for added safety and sure-footedness.
- Molded thru-handles for easy transportation by one person.
- One open end allows for boxes to be nested compactly for storage or to be used as a transportation crate.
- Protruding feet nest in recessed pockets to allow boxes to stack securely.
- Rubber feet prevent box from moving/slipping on smooth surfaces.
- Patented connection design allows for quick and secure side-to-side, side-to-top, or top-to-top connection.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN \ or by contacting your Wenger representative.
- Five-year warranty.
- Patented.



Storage Requirements (L x W x H)
 1 Set Nested: 24" x 24" x 18" (61 x 61 x 46 cm)
 2 Sets Nested: 24" x 24" x 35" (61 x 61 x 89 cm)



2017-01

Staging and Seated Riser Systems

TECHNICAL SHEET

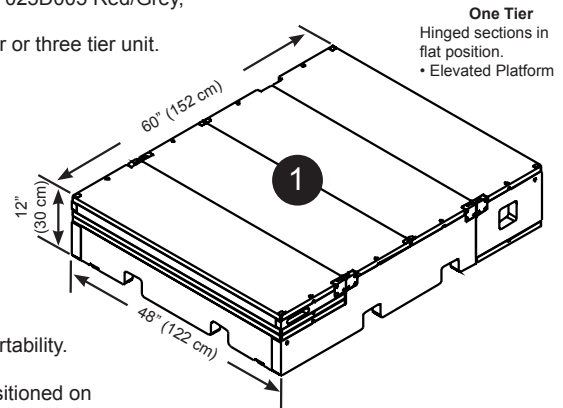
Wenger®

Your Performance Partner

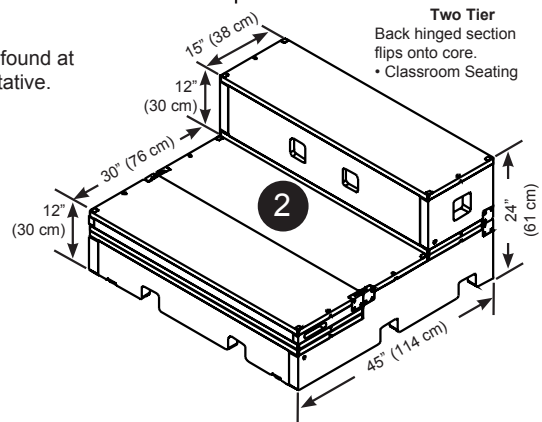
flipFORMS®

- 025D002 Blue/Grey, 025D003 Green/Grey, 025D004 Yellow/Grey, 025D005 Red/Grey, 025D027 Grey/Grey, 025D028 Black/Black (100 lbs) (45 kg).
- Takes on three basic shapes for use as a one tier platform, two tier or three tier unit.
- Has two moveable sections hinged onto a core unit.
- Flip larger back section onto core for two tiers.
Flip both back and front sections onto core unit for three tiers.
When both sections are down, flipFORMS can be used as a one tier raised platform.
- Blow molded, high-density polyethylene plastic shell provides an easy-to-clean surface that's super tough.
- Shell has skid resistant texture molded into surface for added safety and surefootedness.
- Replaceable tops.
- Recessed, molded handholds on front and sides for easy positioning or carrying.
- Built-in wheels in reinforced wheel pockets provide one-person portability.
- Units store in an upright position.
- Twelve 1-1/2" (4 cm) square skid-resistant, non-marring glides positioned on bottom of the unit. Secured by recessed screws.
- Patented hinge design maintains flat surface in all positions.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Five-year warranty.

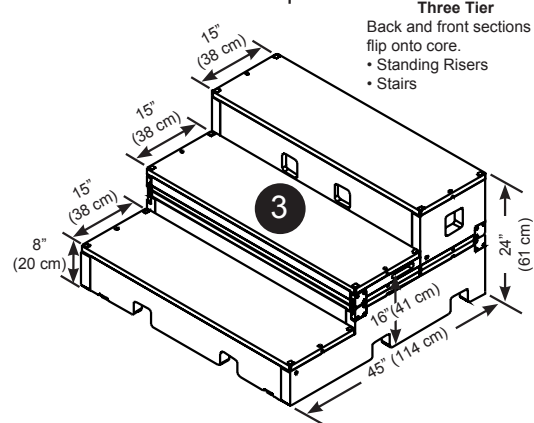
Capacity	Seating (2-step)	Standing (3-step)
Grades 1-3	8 per unit	12 per unit (Bottom step is row #1)
Grades 4-12	6 per unit	12 per unit (Floor is row #1)



One Tier
Hinged sections in flat position.
• Elevated Platform

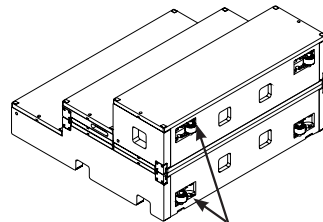
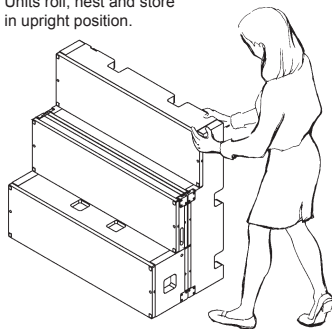


Two Tier
Back hinged section flips onto core.
• Classroom Seating



Three Tier
Back and front sections flip onto core.
• Standing Risers
• Stairs

Units roll, nest and store in upright position.



Wheels and recessed handholds make it easy to transport flipFORMS.

2017-01

Portable and Fixed Audience Seating Systems



Portable and Fixed Audience Seating Systems

Our innovative seating system gives you big capacity with very little effort.



Upper Deck Audience Seating® Tiered Risers

With its folding frame and innovative design, the Upper Deck Audience Seating system allows you to easily change seating configurations based on the layout of the performance. Setup is quick and simple. Four people can install seating for 200 in about two hours. Strike is even easier. Simply remove the decks and rails and the frame folds flat against the wall, or it can be completely disassembled. And it is available with corner sections for better sight lines, improved traffic flow and greater seating capacity. Ideal for black box theatre or applications requiring tiered seating.



Portable Audience Chair

Premier Portable Audience Chair

High-Density Portable Audience Chair by Clarin®

Portable Audience Chairs

Wenger's Portable Audience chairs provide the flexibility of portable seating with the look and feel of permanent luxury seating. These portable chairs attach to one another securely in rows for added stability. Wenger Portable Chairs and Premier Portable Chairs complement our Upper Deck and Fixed Audience Seating to give you a complete high-quality, flexible seating solution. Our High-Density Portable Audience Chair by Clarin is a strong, durable folding portable audience chair that you can use anywhere. The exclusive Duraflex action assures level seating on uneven surfaces – and the chair frame automatically returns to its original shape.



Madrid



Milan



Naples



Chicago



Sydney



Boston

Fixed Audience Seating

Wenger's upholstered theater audience seating is handcrafted and ergonomically designed for quiet comfort. Mix and match the wood, plastic, fabrics and accessories you want to create the seating you need. Custom designs are available. We are your seating partner from selecting the perfect seat model through installation.



New York



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JR CLANCY

Phone 800-836-1885 Worldwide 1.315.451.3440 | Fax 877.836.1885 Worldwide 1.315.451.1766 | Web jrclancy.com
7041 Interstate Island Road | Syracuse | NY 13209-9713

Portable and Fixed Audience Seating Systems

Application Information

Upper Deck Audience Seating®

- Portable Audience Seating System comprised of columns and end frames, which come in ascending heights and are pinned together for folding. Trusses connect columns together and columns over 30" (76 cm) include integral sway braces to meet code requirements for lateral stability.
- Columns, end frames and trusses are connected together to form a support grid. Assembly of support grid requires no tools.
- Decks may be placed in position progressively during assembly of support grid or after the support grid is complete.
- Decks are positioned on support grid and interlocked together. Decks have an integral chair stop at the rear edge. There is an extruded nosing at the front edge of each deck to make elevation changes visible.
- Patented design.

Installation Requirements

- Tiered riser system has available tier heights from 4" to 24" (10 to 61 cm) in 1" (3 cm) increments.
- Maximum available deck height is 10' (305 cm).
- Each column is capable of being leveled with a powered gear drive. Tool is provided, but drill to power tool is not.

Performance Requirements

- System supports a uniform vertical load of 100 psf (488 kgs/per sq meter).
- Under uniform vertical load, deflection of decks and trusses does not exceed L/240.
- System withstands horizontal loads of 24 lbs (11 kg) per linear foot of chair row in the direction parallel to the row and 10 lbs (4.5 kg) per linear foot of chair row in the direction perpendicular to the row.

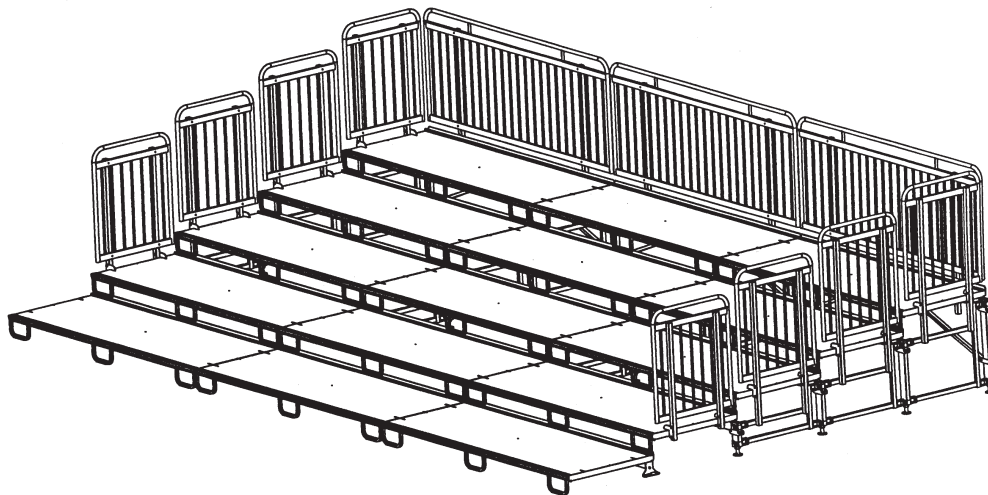
- When installed, the upper member of back rails and end rails withstands a 200 lb (91 kg) load applied in any point in any horizontal direction or vertically down.
- When back rails and end rails are installed, there is no gap between vertical members greater than 4" (10 cm) and no gap between the rail and the deck greater than 4" (10 cm).

Decks

- Standard Deck: Steel frame (black baked on textured finish), aluminum nosing, 1/2" (25.4 mm) thick, group one douglas fir plywood.
- Standard Deck sizes:
 - 3' x 8' (91 x 244 cm) unit weights 85 lbs (39 kg).
 - 4' x 8' (122 x 244 cm) unit weights 110 lbs (50 kg).
- Additional Deck sizes:
 - 3' x 8' (91 x 244 cm)
 - 3' x 7' (91 x 213 cm)
 - 3' x 6' (91 x 183 cm)
 - 3' x 5' (91 x 152 cm)
 - 3' x 4' (91 x 122 cm)
 - 4' x 8' (122 x 244 cm)
 - 4' x 7' (122 x 213 cm)
 - 4' x 6' (122 x 183 cm)
 - 4' x 5' (122 x 152 cm)
 - 4' x 4' (122 x 122 cm).

Custom lengths and corner shape units are also available.

- Deck Finishes:
 - Black standard (.030 black moroccan textured poly surface).
 - 1/8" (3.175 mm) tempered hardboard outer plies with a natural, mill finish.
 - Black heavy-duty (.050 black quadriple textured poly surface).
- Deck Edges: Aluminum extrusion (6063-T6) with radius edges.
- Sample riser layouts are available, contact your Wenger Representative.

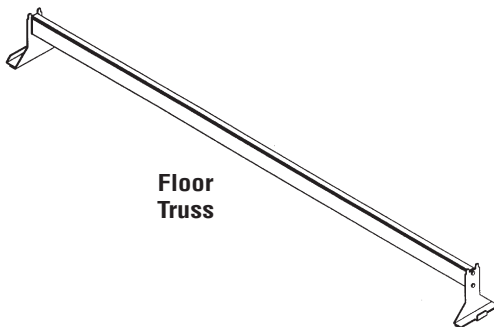
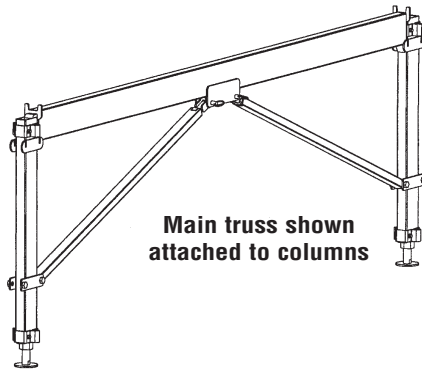


Portable and Fixed Audience Seating Systems

Application Information

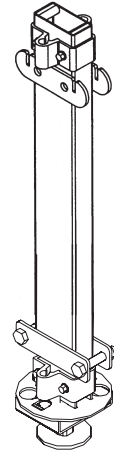
Trusses

- Trusses have a tube design with welded steel features for connecting columns and sway braces.
- Trusses are available in the following standard lengths:
 - 8' (244 cm)
 - 7' (213 cm)
 - 6' (183 cm)
 - 5' (152 cm)
 - 4' (122 cm).
- Truss lengths to match corner shaped sections. Other non-standard lengths are available.
- Trusses have a black powder-coat paint finish.
- Floor trusses are required on riser elevations below 12" (31 cm).



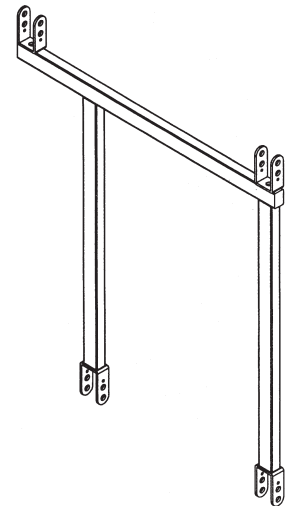
Columns

- Columns have a welded steel assembly available in ascending heights with features for receiving trusses and pinning to end frames.
- Heights over 30" (76 cm) include welded steel sway braces with micro-adjustment and quick-release pins on lanyards.
- Column has a black powder-coat paint finish.
- Power leveling system.



End Frames

- End frames attach to support columns to create side support structure.
- End frames have a welded steel assembly available in varied heights to accommodate 4" to 24" (10 to 61 cm) in 1" (2.54 cm) increment elevation changes.
- End Frames have tapered pins, four per end frame section, with features for permanent or temporary attachment to end frame. (bolt fastener or plastic lanyard used).
- End frames have a black powder-coat paint finish.

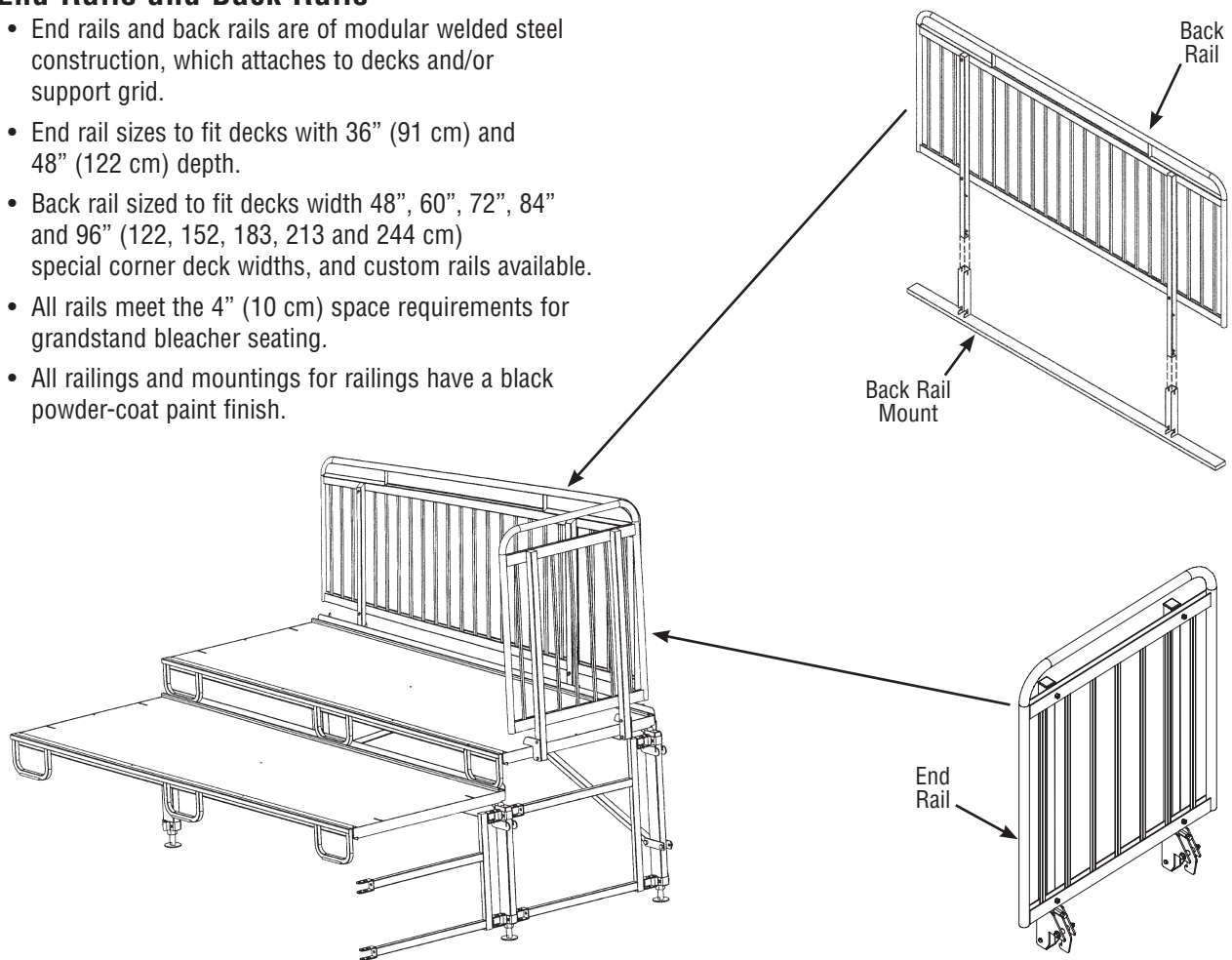


Portable and Fixed Audience Seating Systems

Application Information

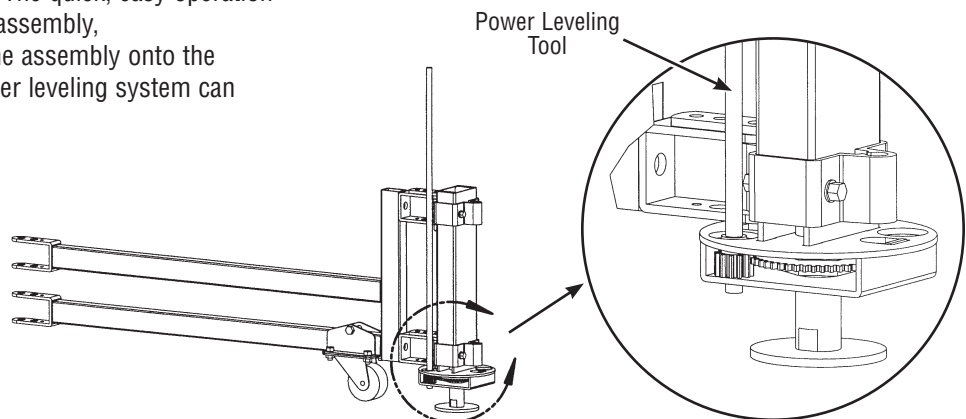
End Rails and Back Rails

- End rails and back rails are of modular welded steel construction, which attaches to decks and/or support grid.
- End rail sizes to fit decks with 36" (91 cm) and 48" (122 cm) depth.
- Back rail sized to fit decks width 48", 60", 72", 84" and 96" (122, 152, 183, 213 and 244 cm) special corner deck widths, and custom rails available.
- All rails meet the 4" (10 cm) space requirements for grandstand bleacher seating.
- All railings and mountings for railings have a black powder-coat paint finish.



Power Leveling System

- The Power leveling System is constructed of a fabricated steel gear drive which allows for leveling with a drill mounted attachment. The quick, easy operation assist in leveling the frame assembly, as well as lowering the frame assembly onto the optional wheel system. Power leveling system can also be manually leveled.
- Power leveling assembly is constructed of steel construction and is finished with a black powder-coat paint finish.
- Power leveling system is not provided with the required power drill.

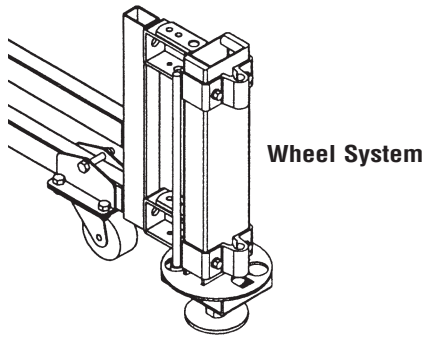


Portable and Fixed Audience Seating Systems

Application Information

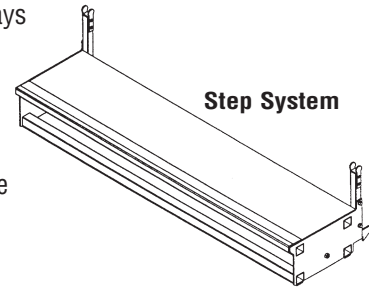
Wheel System

- The wheel system is constructed of a fabricated steel wheel mount with a 2-1/2" (6 cm) diameter neoprene wheel. The wheel assemble is provided on each end frame and is mounted with a bolt fastener.
- The wheel system allows the entire support structure without unit rails and accessories to be relocated.
- Wheel mount has a black baked on textured paint finish.



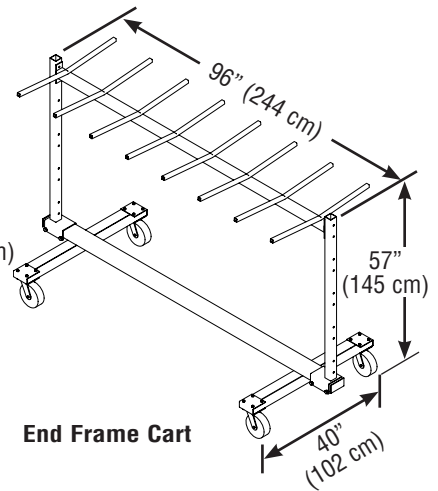
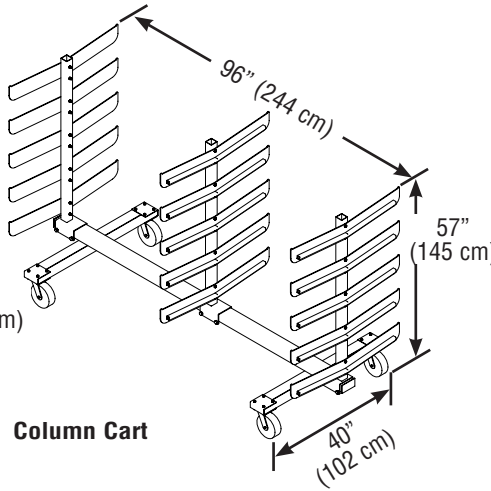
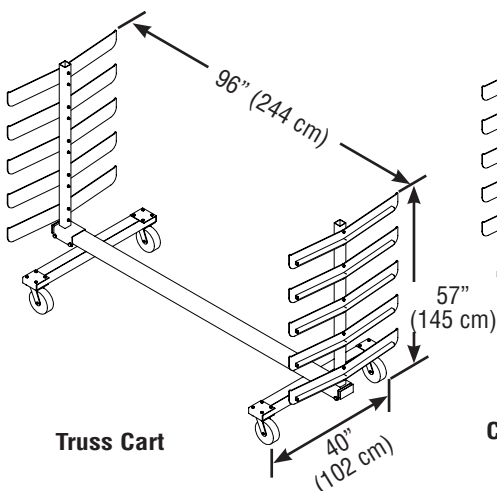
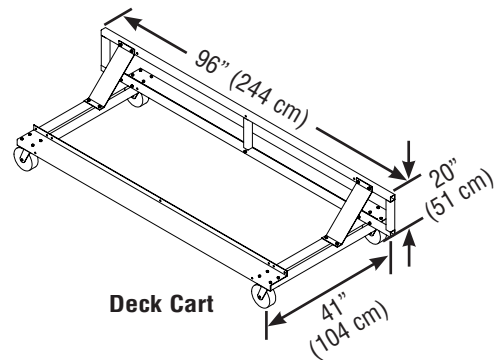
Intermediate Step System

- Intermediate steps are available between platform rises.
- 11" (25 cm) step run.
- Steps constructed of wood which matches the deck platform surface and steel welded frame.
- Step edge has an aluminum protective nosing which highlights and protects the front edge of the step.
- Steps available in 36" (91 cm) or 48" (122 cm) widths.
- Step frame has a black baked on textured finish.
- Step incorporates an intricate connector which lock step to units securely.
- Multiple step stairways are available for access to tiers at heights above 14" (36 cm).
- Railings for steps are also available.



Move/Store Carts

- Carts are constructed of steel tubing and formed metal components.
- Each cart has a carrying capacity of up to 1200 lbs (544 kg) of system components.
- Carts have four swivel casters with 8" (20 cm) wheels which have a 900 lbs (408 kg) capacity each
- Cart style available for columns, trusses, decks, end frames and railings.
- Carts have a black baked on finish.



Portable and Fixed Audience Seating Systems

Application Information

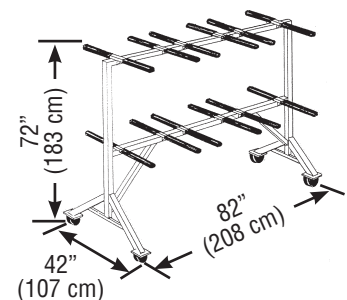
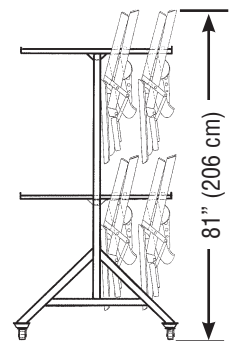
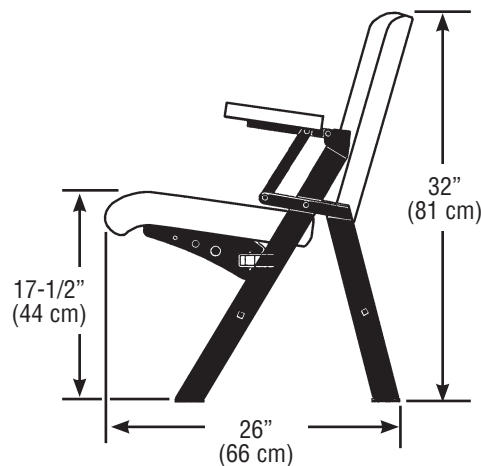
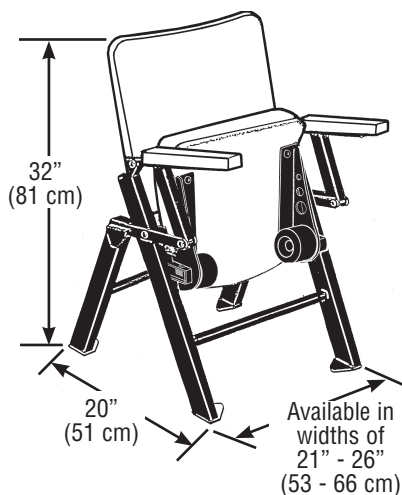
Portable Audience Chair

- Freestanding, folding, audience seating chair with built-in ganging device.
- Steel chair frame is constructed with 16 gauge continuous electric welded 1" x 2" (2.54 x 5 cm) rectangular steel tube.
- Standard finish is a durable black powder-coat paint. Custom colors available upon request.
- Chair seat is spring-loaded and returns to a folded position when not occupied.
- Standard Chair seat and back are upholstered with durable black, 100% Polypropylene fabrics (Sherpa and Shire Marquesa® Lana). Available in standard Absecon Mills, Sherpa and Shire fabrics.
- Seat cushion is 2-1/2" (6 cm) thick high resiliency polyurethane foam with a 5 ply- 3/8" (10 mm) molded hardwood plywood substrate.
- Back cushion is 1-1/2" (4 cm) thick, high-resiliency polyurethane with a 5 ply- 3/8" (10 mm) molded hardwood plywood substrate. Back cushion is shaped to provide lumbar support for long-term comfort.

- Arm rests are solid hardwood with rounded corners and a black finish.
- Overall chair height is 32" (81 cm) with a seat height of 17-1/2" (44 cm).
- Standard chair widths 19" - 24" (48 - 61 cm) widths.
- When the seat automatically returns to the "up" position, the chair depth is 20" (51 cm).
- Chair folds for storage and transport on the accessory cart.

Portable Audience Chair Storage/Transport Cart

- Rack, move, and store up to 24 Wenger portable audience seating chairs.
- Steel construction with easy-roll casters.
- Overall cart dimensions: 72" high x 82" wide x 42" deep (183 x 208 x 107 cm). Cart will NOT fit through a standard 32" (81 cm) door.
- Overall cart dimensions with stored chairs: 81" high x 82" wide x 42" deep (206 x 208 x 107 cm).
- The Premier Audience Chair features finished hardwood on the chair back, bottom and arm rests and is available in three finish options.



Portable and Fixed Audience Seating Systems

Application Information

Fixed Audience Seating

Introducing our new, expanded line of audience seating. With more options available, it's easy to find a seating solution to fit your needs!

Why choose your seating from Wenger?

- Wenger is your seating partner throughout the project – from selecting the perfect seat model all the way through installation.
- The look you want – Mix and match the wood, plastic, fabrics and accessories you want to create the seating you need.
 - Frame and seat back design
 - Fabric, wood or plastic components
 - Accent and aisle lighting
 - Seat and row numbers
 - Fold away tablet arms
 - and more.
- Handcrafted and ergonomically designed to provide superior comfort and an attractive appearance for years and years.
- Custom designs available as well. Just call us and we'll get started!

Specifications

- Steel structural support.
- All steel components are durable black electrostatic powder-coat paint finish.
- Manufacturer's standard fabrics, veneers and stains are available in a variety of materials and finishes.
- Available in a variety of chair widths.
- Standard seat number and row letter plates in plastic with aluminum or brass finish.
- Ten-year warranty.

Portable and Fixed Audience Seating Systems

Application Information

Boston Series

The Boston Series is designed for use in spaces where audience sightlines, seating capacity and space maximization are needed. It has an incredibly slim profile when not in use. The high resilient cushion enables the Boston to provide comfort in the most demanding environments.

Standard Boston Model Seat Specifications (all models)

- Overall seat back height is 33.4" (85 cm).
- Seat height of 16.9" (43 cm).
- Chair depth (back of chair to front edge of seat in the "down" position) is 17" (43 cm) at 18°.
- With the seat in the "up" position, the chair depth is 6.7" (17 cm).
- Seat cushion is 2" (5 cm) minimum thickness, high-resiliency cold molded polyurethane foam.
- Back cushion is 2" (5 cm) minimum thickness, high-resiliency contoured cold molded polyurethane foam.
- Back cushion shaped with lumbar support provides both comfort and support.
- Back cushion foam density $3.43 \pm \text{lb/ft}^3$ ($55 \pm 5 \text{kg/m}^3$).
- Seat cushion foam density $3.75 \pm \text{lb/ft}^3$ ($60 \pm 5 \text{kg/m}^3$).

Boston Wood Model Seat Specifications

- Wood outer back/seat pan.
- Wood armrest.
- Seat Back 5 ply-1/2" (13 mm) finished hardwood veneer plywood outer surface.
- Seat bottom 5 ply-1/2" (13 mm) contoured hardwood veneer plywood outer surface.

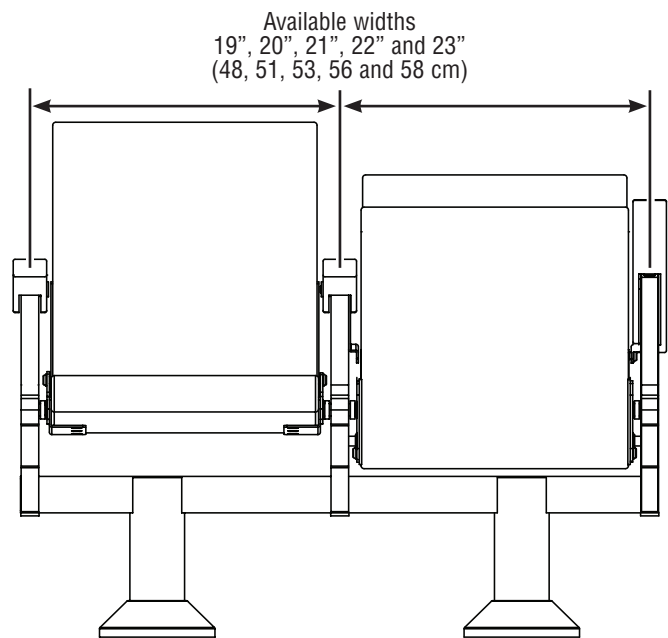
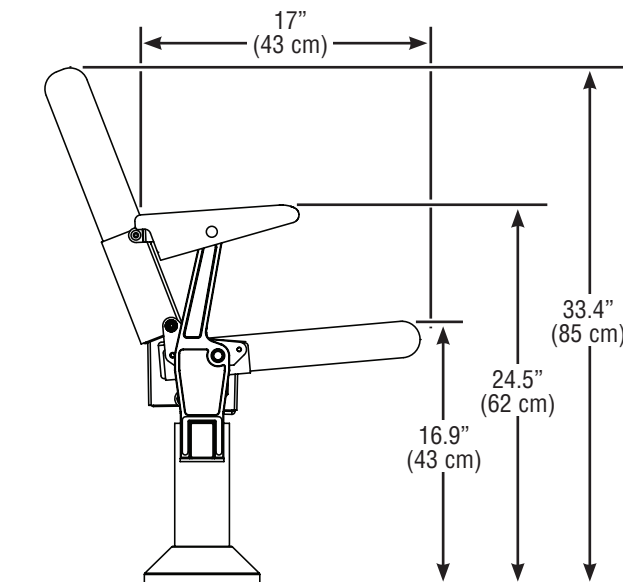
- Solid Beechwood arm rest with rounded corners for a stylish appearance.
- Chair seat returns to a folded position when not occupied using a counterweight driven lifting mechanism.

Boston Fully Upholstered Model Seat Specifications

- Fully upholstered outer back over plywood inner support.
- Fully upholstered seat pan over plywood inner support.
- High-impact polypropylene arm rest.
- Counterweight/counter-balance seat rise mechanism.

Additional Options

- Seats can be customized to meet customer requirements.
- Customer's Own Material (COM) fabric is also available.
- Beam Mount Standards.
- ADA tip-up arm rest handicap aisle access.
- Aisle lights.
- California Technical Bulletin 133 compliant.
- Blank row/seat/donor plates for engraving.



Portable and Fixed Audience Seating Systems

Application Information

Chicago Series

If you are looking for a chair that optimizes your venue's design, look no further. Wenger's Chicago series is definitely an impressive choice for performance and comfort. It's also engineered with a low back profile that protects sightlines.

- Steel structural support.
- Standard seat back angles can be set at 18, 22 and 26°.
- ANSI/BIFMA X5.4 - 2012.
- ASTM F851-87 (2000).
- CAL TB117/CAL TB133 also available.

Standard Chicago Model Seat Specifications (all models)

- Overall seat back height is 33.7" (86 cm).
- Seat height of 17.5" (44 cm).
- Chair depth (back of chair to front edge of seat in the "down" position) is 26.4" (67 cm) at 18°.
- With the seat in the "up" position, the chair depth is 18.1" (46 cm) at 18°.
- Seat cushion is 2" (5 cm) minimum thickness, high-resiliency cold molded polyurethane foam.
- Back cushion is 2.5" (8 cm) minimum thickness, high-resiliency contoured cold molded polyurethane foam.
- Back cushion shaped with lumbar support provides both comfort and support.
- Back cushion foam density $3.43 \pm \text{lb/ft}^3$ ($55 \pm 5\text{kg/m}^3$).
- Seat cushion foam density $3.75 \pm \text{lb/ft}^3$ ($60 \pm 5\text{kg/m}^3$).

Chicago Wood Model Seat Specifications

- Wood outer back/seat pan.
- Wood armrest.
- Wood end panel.
- Seat Back 5 ply-1/2" (13 mm) finished hardwood veneer plywood outer surface.

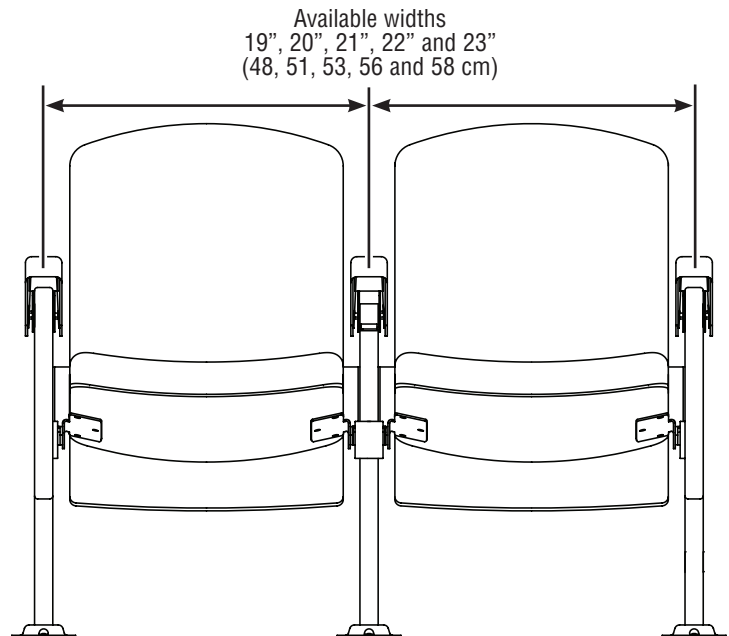
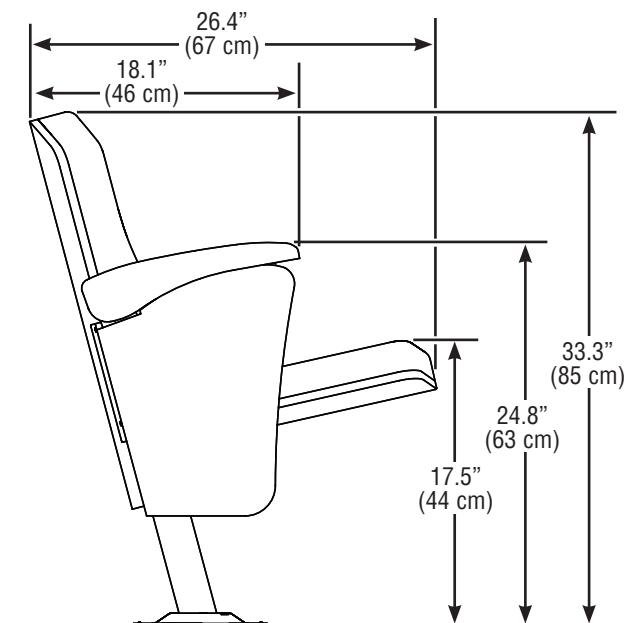
- Seat bottom 11 ply-3/4" (19 mm) contoured hardwood veneer plywood outer surface.
- All standards have solid Beechwood arm rest with rounded corners for a stylish appearance.
- Chair seat returns to a folded position when not occupied using counterweight driven lifting mechanism.

Chicago Fully Upholstered Model Seat Specifications

- Fully upholstered outer back over plywood inner support.
- Fully upholstered seat pan over plywood inner support.
- High-impact polypropylene arm rest.
- Full upholstered end panel.
- Counterweight/counter-balance seat rise mechanism.

Additional Options

- Seats can be customized to meet customer requirements.
- Customer's Own Material (COM) fabric is also available.
- Rolling hardware for moveable seat.
- Riser Mount Standards.
- ADA Swing out handicap aisle access.
- Anti-panic tablet arm available.
- Aisle lights.
- Cup holders.
- California Technical Bulletin 133 compliant.
- Blank row/seat/donor plates for engraving.



Portable and Fixed Audience Seating Systems

Application Information

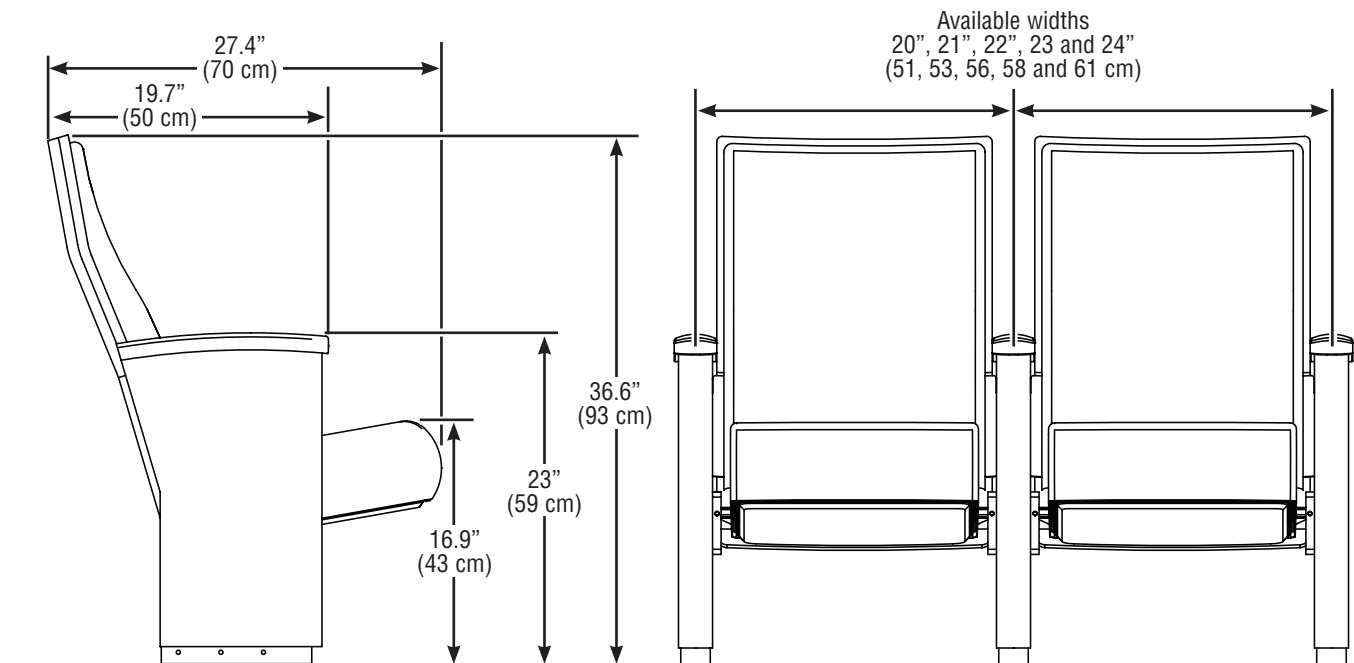
Madrid Series

The Madrid is appreciated for its classic wood design. The solid beechwood arm rests and rounded corners give this seat a sophisticated look that will transform your auditorium. Extra-thick cushions wrapped in your choice of upholstery add maximum comfort and attractive character.

- Welded steel standards with 5-ply finished plywood inserts.
- Finished plywood inserts are included in ALL standards, not just end standards.
- All standards have solid Beechwood arm rest with rounded corners for a stylish appearance.
- Standard seat back angles can be set at 18, 22 and 26°.
- Chair seat returns to a folded position when not occupied using dual self-lifting torsion springs plus a dampers driven lifting mechanism.
- ANSI/BIFMA X5.4 - 2012.
- ASTM F851-87 (2000).
- ASTM C423.
- BIFMA x 5.1-2002.
- BIFMA X5.4 - 2005.
- CAL TB117/CAL TB133 also available.

Additional Options

- Seats can be customized to meet customer requirements.
- Customer's Own Material (COM) fabric selection is also available.
- Rolling hardware available for moveable seats to provide wheelchair spacing.
- Wood veneer with optional acoustic dampening seat bottom.
- ADA Swing out handicap aisle access.
- Aisle lights.
- Riser mount seating standards.
- California Technical Bulletin 133 compliant.
- Blank donor plates for engraving.



Portable and Fixed Audience Seating Systems

Application Information

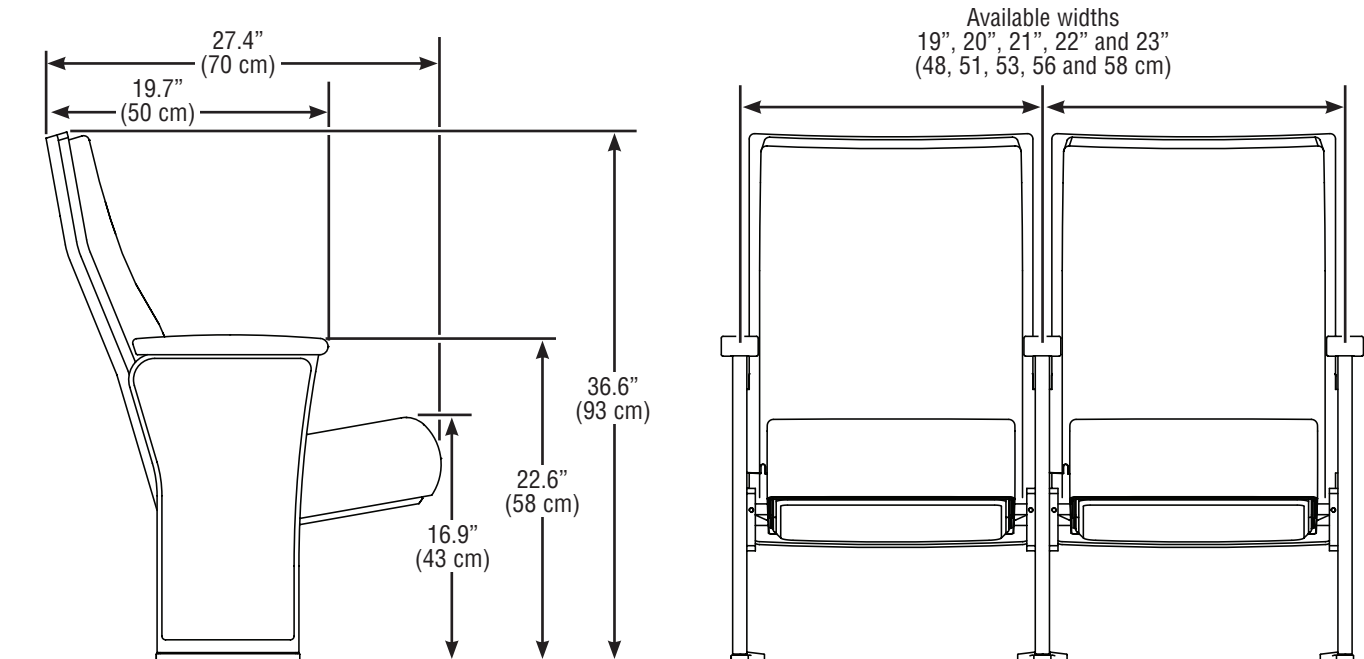
Milan Series

The Milan is our most classic wood seat. The solid beechwood arm rests, side panels and outerback give this seat a warm, sophisticated look. The extra-thick seat and back cushions make this one of our most comfortable seats.

- Cast aluminum standards with 5-ply finished plywood inserts.
- Finished plywood inserts are included in ALL standards, not just end standards.
- All standards have solid Beechwood arm rest with rounded corners for a stylish appearance.
- Standard seat back angles can be set at 18, 22 and 26°.
- Chair seat returns to a folded position when not occupied using dual self-lifting torsion springs plus a dampers driven lifting mechanism.
- ANSI/BIFMA X5.4 - 2012.
- ASTM F851-87 (2000).
- ASTM C423.
- BIFMA x 5.1-2002.
- BIFMA X5.4 - 2005.
- CAL TB117/CAL TB133 also available.

Additional Options

- Seats can be customized to meet customer requirements.
- Customer's Own Material (COM) fabric selection is also available.
- Rolling hardware available for moveable seats to provide wheelchair spacing.
- ADA Swing out handicap aisle access.
- Tablet arm available.
- Aisle lights.
- Riser mount seating standards.
- California Technical Bulletin 133 compliant.
- Blank donor plates for engraving.



Portable and Fixed Audience Seating Systems

Application Information

Naples Series

The Naples features slim back and space-saving design for venues where space maximization is desired. It also has a full range of optional features to address your specific needs and requirements. Its polypropylene arm rest and optional tablet arm make it a smart choice for lecture halls as well.

- Steel structural support.
- Standard seat back angles can be set at 18, 22 and 26°.
- ANSI/BIFMA X5.4 - 2012.
- ASTM F851-87 (2000).
- CAL TB117/CAL TB133 also available.

Standard Naples Model Seat Specifications (all models)

- Overall seat back height is 40.6" (103 cm).
- Seat height of 17.5" (44 cm).
- Chair depth (back of chair to front edge of seat in the "down" position) is 27.6" (70 cm) at 18°.
- With the seat in the "up" position, the chair depth is 18.9" (48 cm) at 18°.
- Seat cushion is 3" (8 cm) minimum thickness, high-resiliency cold molded polyurethane foam.
- Back cushion is 3" (8 cm) minimum thickness, high-resiliency contoured cold molded polyurethane foam.
- Back cushion shaped with lumbar support provides both comfort and support.
- Back cushion foam density 3.43± lb/ft³ (55± 5kg/m³).
- Seat cushion foam density 3.75± lb/ft³ (60± 5kg/m³).

Naples Wood Model Seat Specifications

- Wood outer back/seat pan.
- Wood armrest.
- Wood or fully upholstered end panel.
- Seat Back 5 ply-1/2" (13 mm) finished hardwood veneer plywood outer surface.

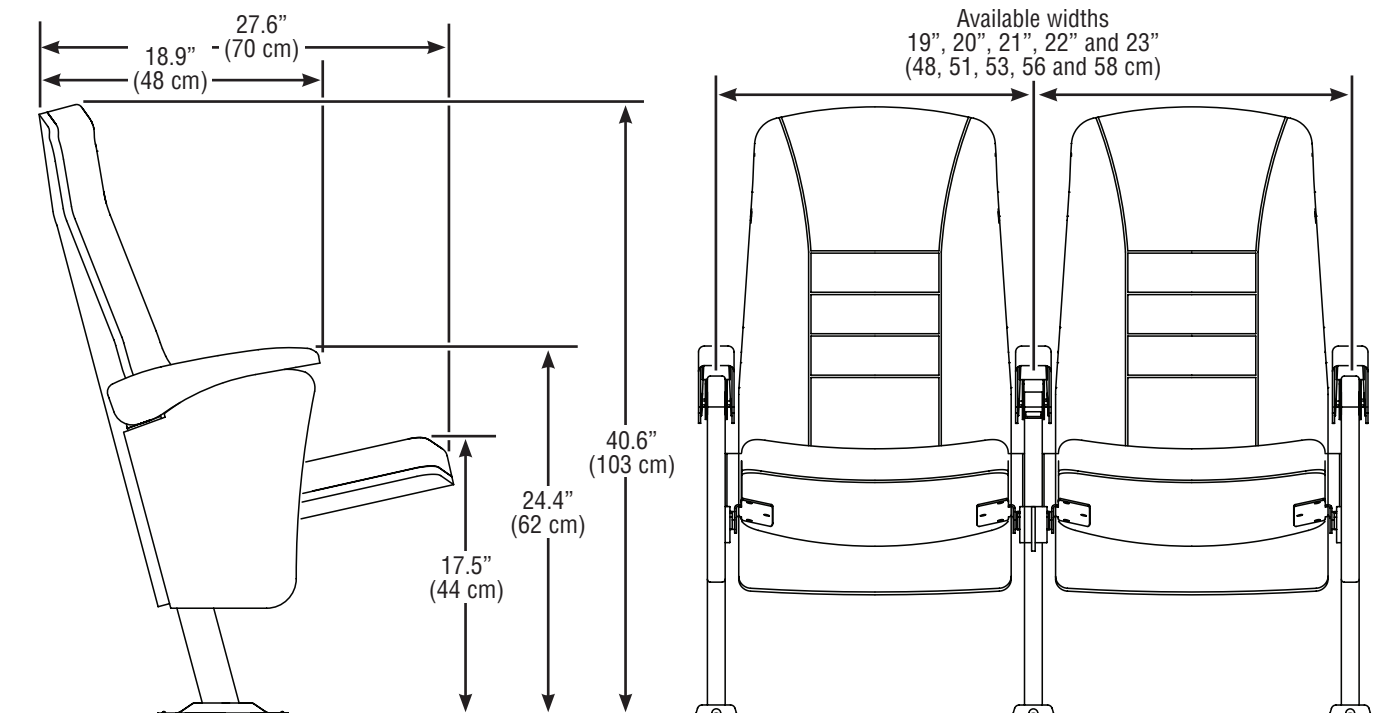
- Seat bottom 11 ply-3/4" (19 mm) contoured hardwood veneer plywood outer surface.
- All standards have solid Beechwood arm rest with rounded corners for stylish appearance.
- Chair seat returns to a folded position when not occupied using a counterweight driven lifting mechanism.

Naples Fully Upholstered Model Seat Specifications

- Fully upholstered outer back over plywood inner support.
- Fully upholstered seat pan over plywood inner support.
- High-impact polypropylene arm rest.
- Full upholstered end panel.
- Counterweight/counter-balance seat rise mechanism.

Additional Options

- Seats can be customized to meet customer requirements.
- Customer's Own Material (COM) fabric is also available.
- Rolling hardware for moveable seat.
- Riser Mount Standards.
- ADA Swing out handicap aisle access.
- Anti-panic tablet arm available.
- Aisle lights and up holders.
- California Technical Bulletin 133 compliant.
- Blank row/seat/donor plates for engraving.



Portable and Fixed Audience Seating Systems

Application Information

New York Series

The New York series features superior comfort and durability in a slim profile. The stylish space-saving design will maximize space and seating capacity. It is available with multiple options and two seat back heights to fit your auditorium or lecture hall needs.

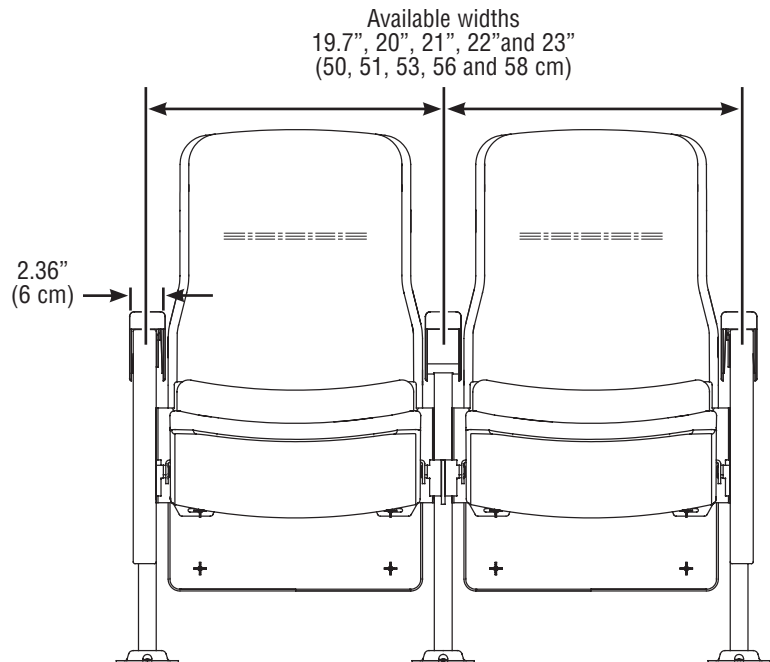
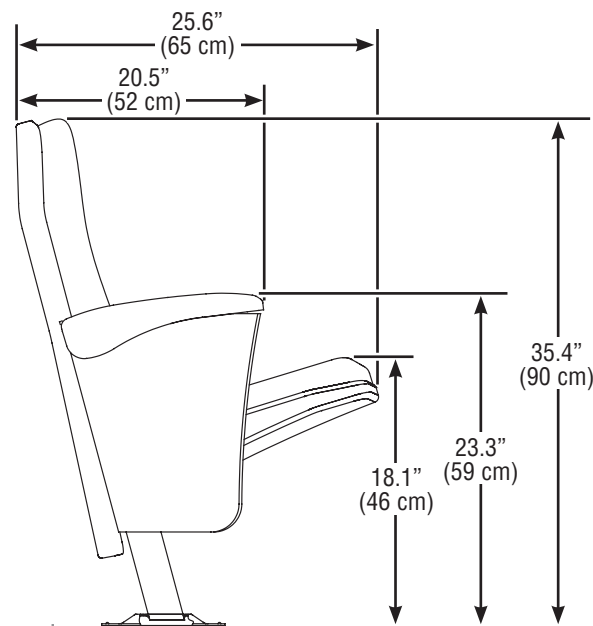
- Counterweight/counter-balance seat rise mechanism.
- Standard seat back angles can be set at 18, 22 and 26°.
- ANSI/BIFMA X5.4 - 2012.
- ASTM F851-87 (2000).
- CAL TB117/CAL TB133 also available.

Materials

- Injection molded polypropylene copolymer IF-727.
- High-impact polypropylene outer back.
- High-impact polypropylene seat pan.
- High-impact polypropylene arm rest.
- Full upholstered end panel.
- Cold molded foam cushions.
- Back cushion foam density $3.43 \pm \text{lb/ft}^3$ ($55 \pm 5 \text{kg/m}^3$).
- Seat cushion foam density $3.75 \pm \text{lb/ft}^3$ ($60 \pm 5 \text{kg/m}^3$).

Additional Options

- Seats can be customized to meet customer requirements.
- Customer's Own Material (COM) fabric selection is also available.
- Rolling hardware available for moveable seats to provide wheelchair spacing.
- ADA Swing out handicap aisle access.
- Tablet arm available.
- Aisle lights.
- Riser mount seating standards.
- California Technical Bulletin 133 compliant.
- Blank donor plates for engraving.



Portable and Fixed Audience Seating Systems

Application Information

Sydney Series

The elegance and graceful design of the Sydney Series makes this line a best seller for the contemporary architecture of many performing arts venues and multi-use auditoriums. It features superior comfort and multiple design options to fit your specific needs.

- Standard seat back angles can be set at 18, 22 and 26°.
- ANSI/BIFMA X5.4 - 2012.
- ASTM F851-87 (2000).
- CAL TB117/CAL TB133 also available.

Standard Sydney Model Seat Specifications (all models)

- Overall seat back height is 34.5" (88 cm).
- Seat height of 18" (46 cm).
- Chair depth (back of chair to front edge of seat in the "down" position) is 25.7" (65.3 cm) at 18°.
- With the seat in the "up" position, the chair depth is 18.4" (46.7 cm) at 18°.
- Seat cushion is 4" (10 cm) minimum thickness, high-resiliency polyurethane foam.
- Back cushion is 3" (8 cm) minimum thickness, high-resiliency contoured polyurethane foam.
- Back cushion shaped with lumbar support provides both comfort and support.
- Back cushion foam density $3.43 \pm \text{lb/ft}^3$ ($55 \pm 5 \text{kg/m}^3$).
- Seat cushion foam density $3.75 \pm \text{lb/ft}^3$ ($60 \pm 5 \text{kg/m}^3$).

Sydney Wood Model Seat Specifications

- Wood outer back/seat pan.
- Wood armrest.
- Wood end panel.
- Seat Back 5 ply-1/2" (13 mm) finished hardwood veneer plywood outer surface.

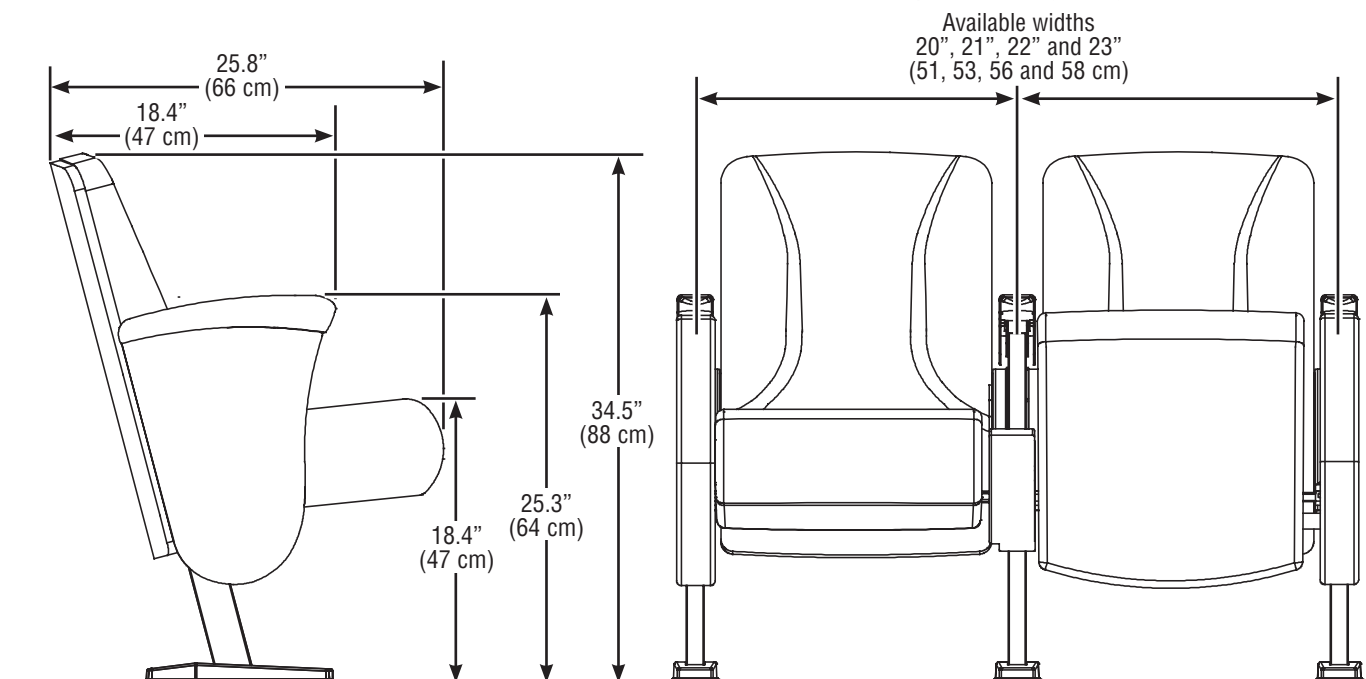
- Seat bottom 11 ply-3/4" (19 mm) contoured hardwood veneer plywood outer surface.
- All standards have solid Beechwood arm rest with rounded corners for a stylish appearance.
- Chair seat returns to a folded position when not occupied using dual self-lifting torsion springs plus dampers driven lifting mechanism.
- Counterweight/counter-balance seat rise mechanism available.

Sydney Polypropylene Model Seat Specifications

- Injection molded polypropylene copolymer IF-727.
- High-impact polypropylene outer back.
- High-impact polypropylene seat pan.
- High-impact polypropylene arm rest.
- Full upholstered end panel.
- Counterweight/counter-balance seat rise mechanism.

Additional Options

- Seats can be customized to meet customer requirements.
- Customer's Own Material (COM) is also available.
- Rolling hardware for moveable seat.
- Riser Mount Standards.
- ADA Swing out handicap aisle access.
- Tablet arm available.
- Aisle lights.
- California Technical Bulletin 133 compliant.
- Blank donor plates for engraving.



Makeup Stations



The ideal environment for makeup application.



Studio® Makeup Station

Wenger Studio Makeup Stations have got it all. Light columns for clean shadow-free illumination; a large mirror for a full, unobstructed view of head and shoulders; steel-laminated construction that keeps the mirror from curving or splintering; plenty of counter space with a curved stain-resistant countertop that allows for leaning into the mirror; a molded-in pencil tray; tackboard available for notes and instructions; and an overhead shelf that reflects untainted light and provides plenty of storage space. And Wenger Makeup Stations are ready to install. They mount quickly and easily into wall studs or masonry at any height so they can be hung and hard-wired to the room's electrical system.

Product Details

- Available in 36" (91 cm) or 30" (76 cm) widths.
- Wall mounting bracket has multiple holes for alignment with wall frame studs. Also mounts to masonry walls.
- Makeup stations can be installed at any height. Recommended height for counter is 29" (74 cm) from the floor.
- Designed for 60 watt incandescent or 15 watt swirl fluorescents. GE Reveal® bulbs or full-spectrum fluorescents are recommended for additional clarity and accurate reflection of skin tones and makeup colors (*bulbs not included*).
- 3/16" (0.6 cm) diameter steel wire light bulb cages, permanently mounted.
- UL®-Approved and meets NEC (National Electric Code) requirements.
- Counter is 1" thick, 36" or 30" wide, 20" deep (2.5 cm, 91 cm, 76 cm, 51 cm) medium density fiberboard with stain resistant, matte white laminate overlay. Rated for 300 lbs. (136kg).
- Counter has a concave shape with the center front edge just 15" (38 cm) from the mirror.
- Five-year warranty.



Backstage® Makeup Station

Wenger's Portable Backstage Makeup Station turns any room into a dressing room, even if it's a utility closet backstage. Weighing in at only 35 lbs., the Backstage Makeup Station uses six 60-watt incandescent bulbs, or 15-watt full spectrum fluorescents, to create even, shadow-free light. The large head-and-shoulders mirror provides plenty of room to work and an auxiliary power outlet is built-in. A convenient carrying handle makes it easy to move from place to place. And multiple stations nest together for compact storage.

Product Details

- Weighs 35 lbs. (16 kg) and can be carried by one person. Steel frame doubles as carrying handle.
- 33" wide, 33-1/4" high, 9-3/8" deep (84 cm, 85 cm, 24 cm) makeup station is well balanced and sets anywhere.
- Each 33" wide (84 cm) unit requires an incremental 6-1/2" (16.5 cm) of floor or shelf space for storage.
- Designed for 60 watt incandescent or 15 watt swirl fluorescents. GE Reveal® bulbs or full-spectrum fluorescents are recommended for additional clarity and accurate reflection of skin tones and makeup colors (*bulbs not included*).
- 3/16" (5 mm) diameter steel wire light bulb cages, permanently mounted.
- 20-3/4" wide x 22-3/4" high (53 cm x 58 cm) mirror laminated to a steel backer. Steel frame and unique aluminum light housing surround the mirror.
- Single outlet and rocker switch combination with built-in GFCI protection.
- 10' (3 m) 12-gauge, 3-wire cord plugs into a standard 110 outlet.
- A rocker switch and single grounded outlet are mounted on the lower right side of the mirror surround. Switch controls lights only, allowing appliances to operate with lights off.
- UL®-Approved and meets NEC (National Electric Code) requirements.
- Optional dust cover available.
- Five-year warranty.

Wenger®

GEARBOSS®

JRCLANCY
QUALITY SINCE 1885

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Makeup Stations

Application Information

30" and 36" (76 and 91 cm) Studio® Makeup Stations

Wenger Studio Makeup Stations will provide performers with a correct and convenient environment for applying makeup and creating other visual effects.

The Studio Makeup Station components include a generous counter, a large mirror, a reflective storage shelf, untainted lighting and electrical outlets. A tackboard is available on the 36" (76 cm) model.

The Studio Makeup Stations are designed to be permanently attached to a wall and hard-wired.

The Counter

- Construction: Medium density fiberboard core and laminate overlay with a stain resistant surface and a matte white finish for light diffusion.
- Features: Rounded upper edges, integral pencil tray with a concave shape for mirror access. 15" (38 cm) from counter edge to mirror surface.
- Size:
 - 36" models - 36" wide x 20" deep (91 x 51 cm)
 - 30" models 30" wide x 20" deep (76 x 51 cm).
- Work surface is recommended to be 29" (74 cm) from the floor, but can be positioned at any height.

The Mirror

- Construction: High quality glass and silvering laminated to a steel backer to prevent separation of shards if broken.
- Size:
 - 36" models - 28" (71 cm) square
 - 30" models - 22" wide x 28" high (56 x 71 cm).

The Mirror Surround

- Construction: Extruded aluminum and sheet steel. Powder-coat paint with a matte white finish for light diffusion.

The Storage Shelf

- Purpose: to provide uniform light reflection on the performer's face. Provides easy access for accessory storage.
- Construction: Medium density fiberboard core and laminate overlay with an easy to clean surface and a matte white finish for light diffusion.
- Size:
 - 36" models - 36" wide x 12" deep (91 x 31 cm)
 - 30" models - 30" wide x 12" deep (76 x 31 cm).
- Storage surface is 69" (175 cm) from floor, if hung at the recommended height.

The Lighting

- 36" models - 9 medium base sockets provided for 60W incandescents or 15W swirl fluorescents.
- 30" models - 8 medium base sockets provided for 40-60W incandescents or 10-15W swirl fluorescents.
- Bulbs are protected by wire cages made from 3/16" (5 mm) diameter steel wire. Cages are permanently mounted and designed for easy bulb replacement (bulbs not included).

The Electrics

- A rocker type switch is mounted on the lower left side of the mirror surround. It controls the lights only.
 - A 20 amp rated duplex outlet with built in GFCI protection is mounted on the lower right side of the mirror surround.
 - 24" (61 cm) off flexible conduit and conductors exit the unit beneath the counter, next to the wall.
- NOTE:** Separate black conductors are provided for lights and outlet to allow circuit design according to anticipated use and local codes.
- Entire product is UL (underwriter laboratory) approved.

The Tackboard (36" models only)

- Construction: White tackable surface mounted in a matte white frame.
- Shipped unmounted. May be attached to top, bottom, or side of the mirror.
- Size: 6" wide x 28" long (15 x 71 cm).

The Options

- 36" model is available with either under-counter storage cage or lockable sliding drawer. Space allows for only one storage option per Studio Makeup Station.

Installation

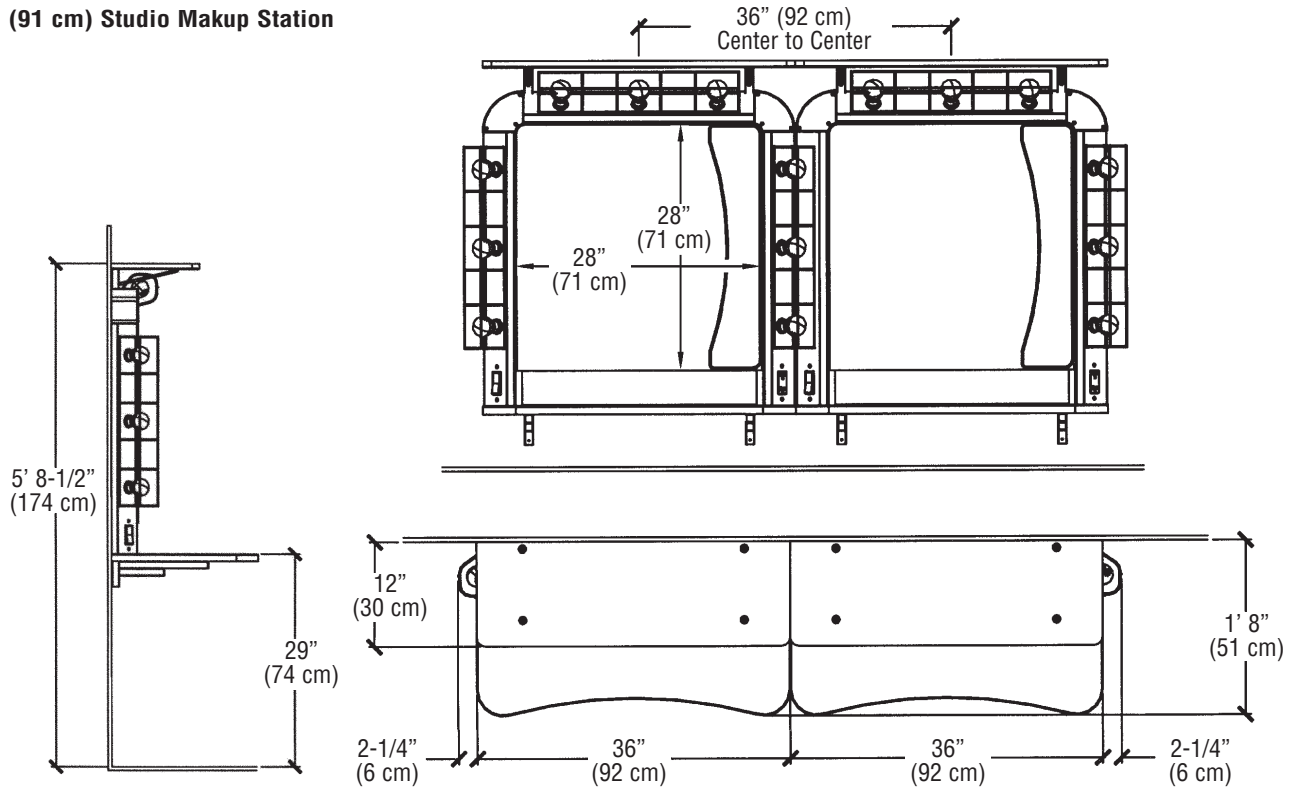
- Wall mounting brackets are included for easy attachment to permanent walls.
- Wall mounting brackets incorporate leveling and adjustment feature to aid alignment for multi-unit installation.
- When multiple units are installed, adjacent units share a vertical column of bulbs.

Physical Dimensions:

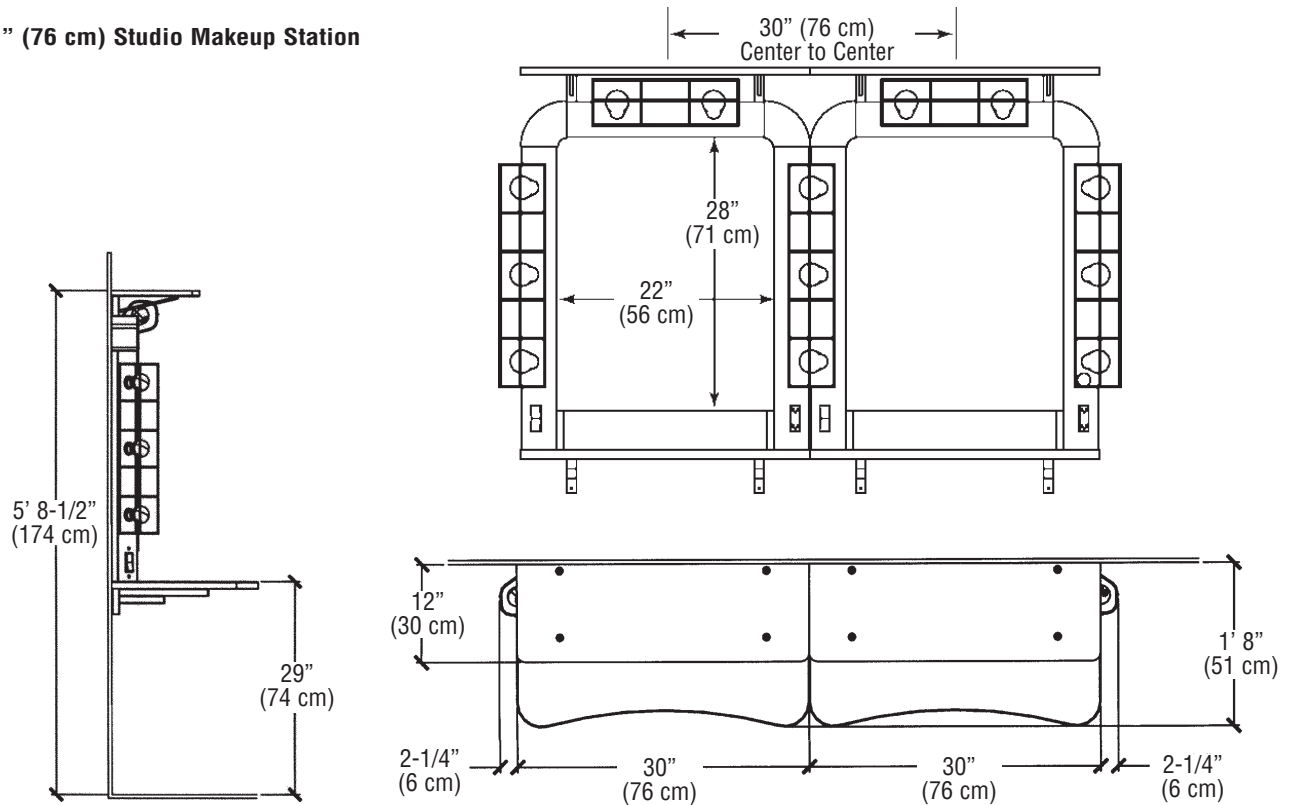
- 36" models
 - Overall width: 403/8" (103 cm) (bulb cage-to-bulb cage)
 - Overall height: 44" (112 cm)
 - Overall depth: 20" (51 cm)
 - Multi-unit spacing: 36" (91 cm) center-to-center
 - Weight: 75 lbs. (34 kg).
- 30" models
 - Overall width: 341/2" (88 cm) (bulb cage-to-bulb cage)
 - Overall height: 44" (112 cm)
 - Overall depth: 20" (51 cm)
 - Multi-unit spacing: 30" (76 cm) center-to-center
 - Weight: 65 lbs. (29.5 kg).

Makeup Stations

36" (91 cm) Studio Makeup Station



30" (76 cm) Studio Makeup Station



TECHNICAL SHEET

Wenger®

Your Performance Partner

Backstage® Makeup Station

The Backstage Makeup Station will provide performers with a correct and convenient tabletop environment for applying makeup and creating other visual effects. The Backstage Makeup Station includes a large mirror, shadow-free lighting, an electrical outlet, a carry handle, and a grounded power cord.

- 187A011 Backstage Makeup Station with 6 lights and white accent panels.

The Mirror

- Construction: High quality glass and silvering laminated to a steel backer to prevent separation of shards if broken.
- Size: 20-3/4" wide x 22-3/4" high (53 x 58 cm).

The Mirror Surround

- Construction: Extruded matte white aluminum with white accents. Rugged powder-coat paint finish. Base is shaped for compact storage front-to-back.
- Handle on top for transporting is part of mirror surround.

The Lighting

- 6 medium base sockets provided for 60W incandescents or 15W swirl fluorescents. Bulbs are protected by wire cages made from 3/16" (5 mm) diameter steel wire. Cages are permanently mounted, but allow easy bulb replacement (bulbs not included).

The Electrics

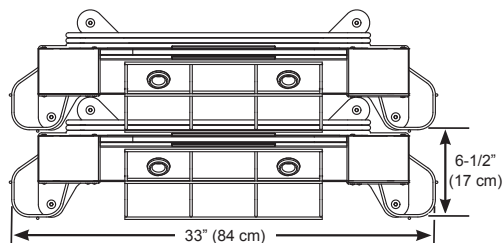
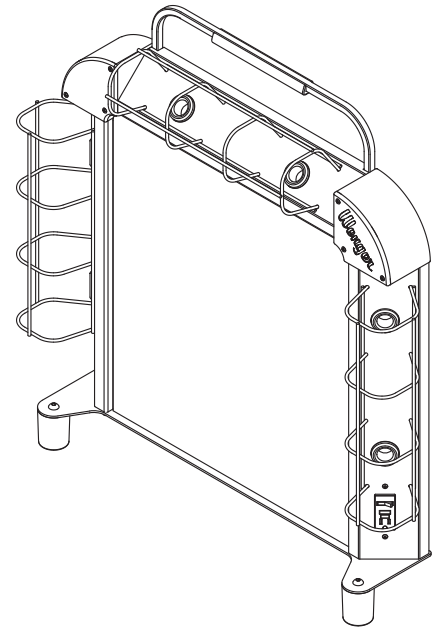
- A rocker switch and grounded outlet are mounted on the lower right side of the mirror surround.
- Switch controls lights only.
- Attached power cord is 10' (3 m) long and stores itself.
- UL® listed. Meets NEC (National Electric Code) requirements.

The Options

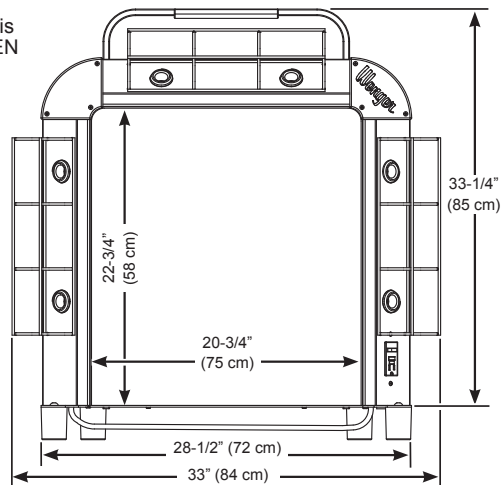
- 187A021 Lightweight canvas padded Dust Cover protects the Backstage Makeup Station from damage and collection of dust.

Physical Dimensions

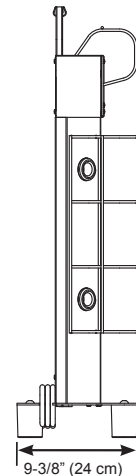
- Overall Width: 33" (84 cm) (bulb cage-to-bulb cage).
- Overall Height: 33-1/4" (85 cm).
- Overall Depth: 9-3/8" (24 cm).
- Storage Depth: 9-3/8" (24 cm) first unit, 6-1/2" (17 cm) each additional unit.
- Weight: 35 lbs (16 kg).
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.



Nested View



Front View



Side View

2017-01

ATHLETIC EQUIPMENT STORAGE



ATHLETIC EQUIPMENT STORAGE



CUSTOMIZABLE WOOD LOCKERS

Your facility reflects your tradition as well as your expectations for future success. The one area where this matters most, the area that impacts your players every day, is the team room. More than just a locker room, your team room needs to inspire, recruit, and function. The GearBoss customizable wood lockers will help you create a first-class team room that will set your program apart.



AIRPRO™ LOCKERS

GearBoss AirPro lockers give your team rooms the ultimate in ventilation, sanitation and space usage. They create team rooms that stand apart with a durable grid design and multiple color options. They mount off the floor for thorough cleaning and a sanitary team room. Integrated seats remove the need for space-consuming benches. AirPro lockers offer a level of functionality and aesthetics that simply can't be matched by press-metal lockers.



GEARBOSS® HIGH-DENSITY STORAGE

GearBoss high-density storage carts create more room in less space – improving space efficiency by as much as 50% – by using an innovative system of tracks and rolling carts. X-Carts™ are designed to move laterally on the track and stay in your equipment room. Team Carts™ are portable and engineered with retractable track guides so you can move the equipment around the room or off campus. Every cart can be reconfigured for maximum storage. Bottom line – you'll get a flexible sports storage system engineered to meet every challenge.



GEARBOSS® II HIGH-DENSITY STORAGE SYSTEM

You will gain more control over the time and money lost to poor organization, lax security and misplaced inventory. This storage system is simply a better way to care for your equipment investments.

GearBoss is an equipment storage and transportation solution designed to transform your equipment room into a point of pride. GearBoss is a high-density storage solution that uses an innovative system of tracks and rolling carts and accessories to reduce the square footage of your storage area by at least half. GearBoss units are designed to encourage airflow and improve sanitation and odor issues. The modular system features accessories specific for the needs of bulky equipment like helmets and shoulder pads. Accessories like panels and doors can be added for security, and in matching school colors they present an unmistakable message of program pride.



GEARBOSS® SHELVING

This is the affordable, flexible, durable solution for shelving storage and workspace needs. The cantilever design optimizes overhead space and keeps the floor free from supports for extra room. The system is so versatile it can be configured to your specific needs to make sure you get the maximum storage space.



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USA/05-2017/W/LT0152H



WENGER CORPORATION

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GEARBOSS

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JR CLANCY

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Athletic Equipment Storage

Overview

GearBoss® by Wenger is a complete, state-of-the-art system designed to help with all aspects of your athletic program. From lockers, to storage, to equipment transport and fund-raising solutions, GearBoss products save you time, space, and effort. They're flexible and customizable so your system can change as your needs change. Plus, we'll work with you every step of the way to make sure you get exactly the right system—nothing more, nothing less.

GearBoss innovations are driven by these key principles:

Mobility – Haul equipment and apparel wherever you need it, without hassle.

Flexibility – Storage systems and custom lockers that adapt to your changing needs.

Organization – Keep track of your equipment and apparel easily with storage and locker rooms that get in order and stay in order.

Sanitation – Superior ventilation and anti-microbial surfaces help equipment stay clean, dry and germ-free.

Space – High-Density storage and room design services for maximizing every inch of space.

Security – Lockable doors and side panels keep apparel and equipment safe and secure.

Pride – Equipment and locker rooms that set you apart and reflect your team spirit.

Featured Components Include:

Team Lockers

- Customizable Wood Lockers
- AirPro™ Lockers

UltraStor™ Custom Casework

- Day Lockers
- Pass-Through Cubbies
- Uniform and Coach's Storage

GearBoss® High-Density Storage

- X-Cart™
- Team Cart™
- SportCart™

GearBoss® II High-Density Storage

GearBoss® Shelving

Mobile Specialties

- TranSport™ Cart
- Mobile Kiosk
- Workstation

Athletic Equipment Storage

Application Information

Customizable Wood Lockers

The GearBoss Wood Locker design is everything you need to make a statement to every player and every recruit. Coaches will love how these lockers make it easy to apply your school colors and logo. Equipment managers will love how the open design promotes continuous airflow and easy cleaning to keep the entire team room in tip-top shape. Wenger will work closely with you to make sure your new GearBoss team room lockers fulfill your vision.

Performance Requirements

- Engineered with features that outperform and outlast wood veneers and cabinet-type construction.
- Modularity means you can make unlikely replacements without breaking glues, dowels, or adjacent components.
- Integrated bench seating eliminates the need for floor-mounted benches or folding chairs, saving valuable floor space.
- Open design promotes airflow to encourage drying and reduce mildew and odor buildup and can be enhanced with optional fans.

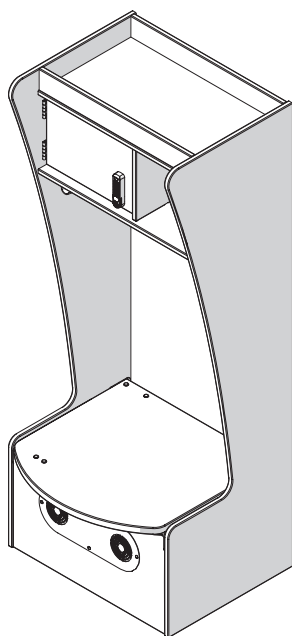
Construction

- Locker sizes:
 - Standard locker height is 78" (198 cm),
 - 90-1/2" (230 cm) high with optional storage attic.
 - 18"-36" widths available in 2" increments x 24" deep
 - (46-91 cm widths available in 5 cm increments x 61 cm).
- Depending on overall locker width, a hinged seat can be up to 29-1/2" (75 cm) deep.
- Side Profile options are Cut-Back, Straight, Concave or Lighted.
- Constructed of 3/4" (19 mm) composite wood core.
- Antimicrobial polyester laminated finish.
- Edging is 1/8" (3 mm) beveled PVC.
- Each locker seat is rated for 500 lbs. (227 kg).
- Each garment bar and garment hook is rated for 50 lbs (27 kg).

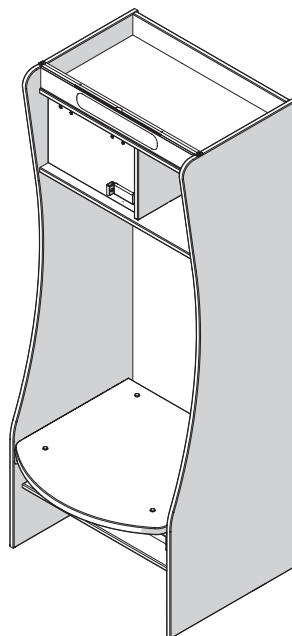
- 10-gauge, powder-coat painted garment hooks.
- Vented foot locker/debris drop-through and clean-out tray.
- Leveling powder-coat metal base raises unit from 1" to 2.5" (2 to 6 cm) off floor.
- 16-gauge powder-coat painted floor plate.
- Zinc-plated levelers.
- 16-gauge steel or 3/4" composite wood core nameplate housing.
- Low-profile, zinc-plated through-connectors.
- Meets UL 65 / CSA C22.2 Electrical Standards. Requires a 120V, 60 Hz, 15A circuit to be connected to the 4" x 4" (10 x 10 cm) electrical junction box of each locker.
- Available in four core substrates to meet your specific needs: fire-rated, formaldehyde free industrial grade composite wood (standard), moisture-resistant, and Vencore (plywood).
- Shipped ready-to-assemble with detailed instructions. Wenger assembly and installation is optional.
- ADA-Compliant options.
- Ten-year limited warranty.

Options

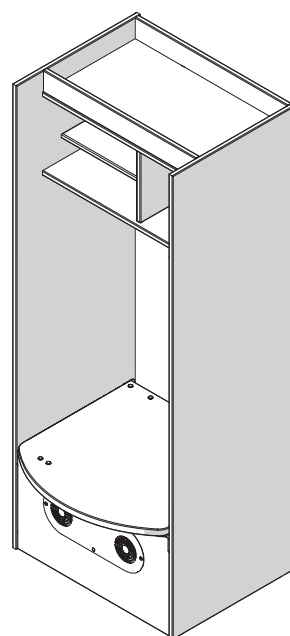
- More than one thousand ultimate configurations and the ability to coordinate the entire system to your school's colors and branding.



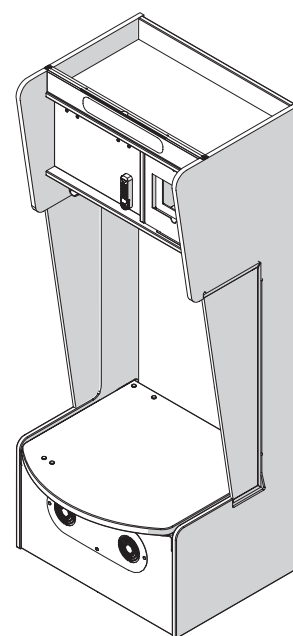
Cut-Back Side Profile



Contour Side Profile



Square Side Profile

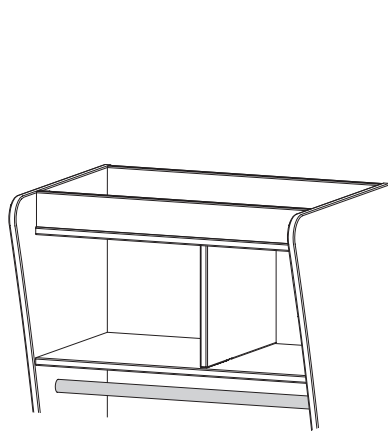


Lighted Side Profile

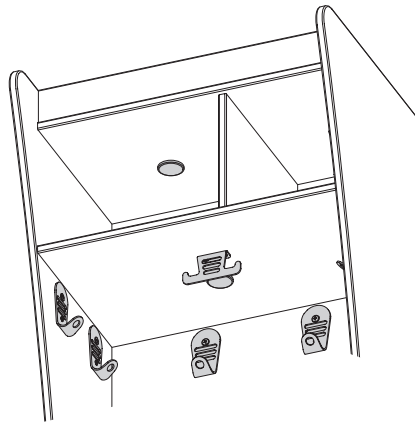
Athletic Equipment Storage

Application Information

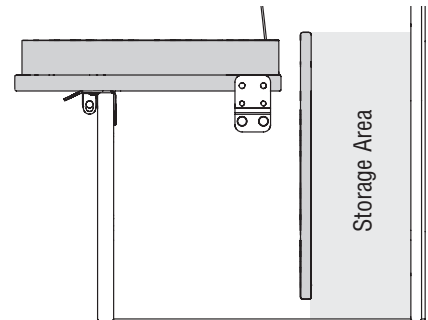
A Sample Of Available Options



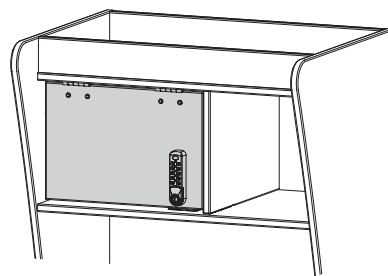
Garment Bar



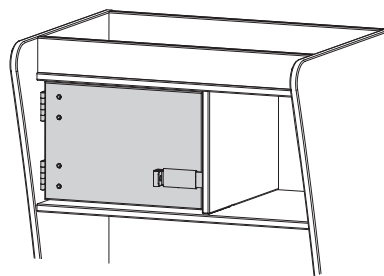
Garment Hooks and Lights



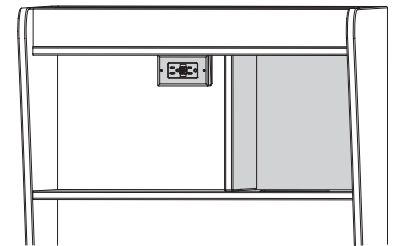
Behind Seat Storage



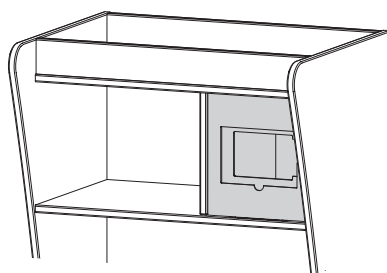
Top Cubby Hinges and Programmable Digital Lock



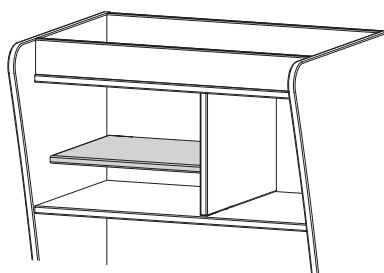
Left Side Cubby Hinges and Hasp Lock



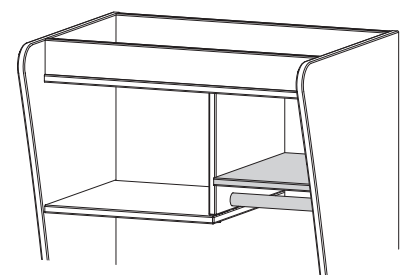
Cubby with No Door and Cubby Outlets



LCD Screen Ready



Cubby Shelf

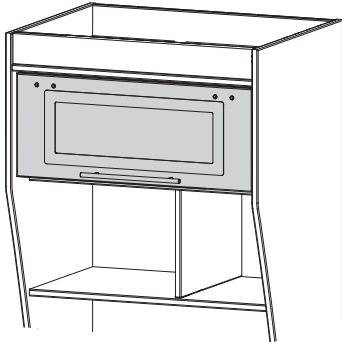


Half Shelf with Half Garment Bar

Athletic Equipment Storage

Application Information

A Sample Of Available Options (continued)



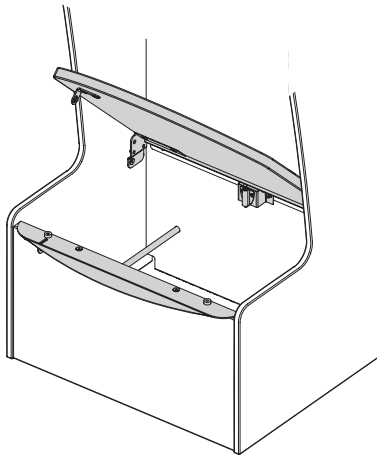
Storage Attic with Acrylic Door



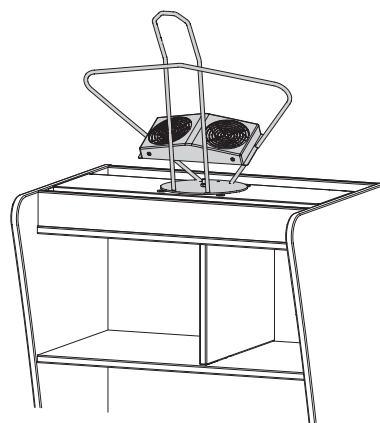
Storage Attic with Wood Door



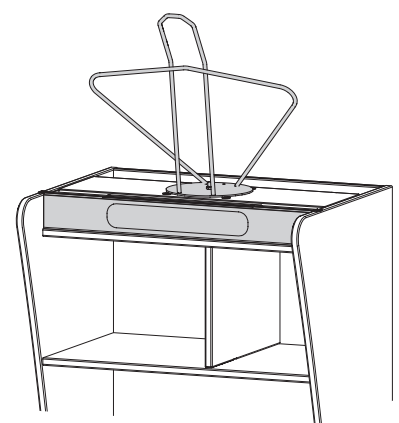
Storage Attic with No Door



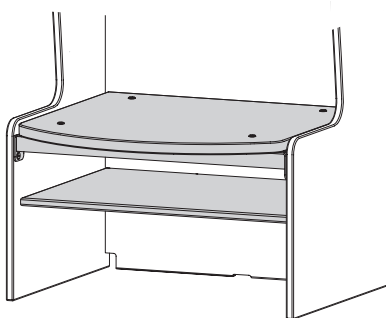
**Hinged Seat, Seat Lock,
Foot Locker Bar, Light Sensor
and Outer Foot Locker Light**



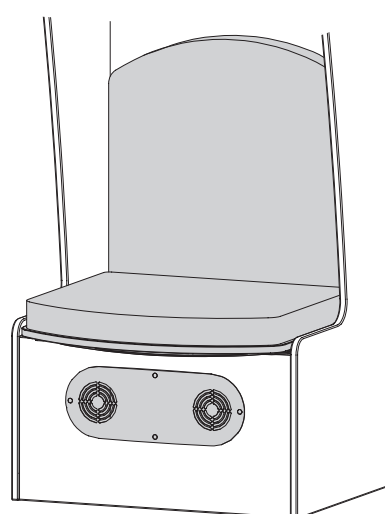
**Football Shoulder Pad/Helmet
Topper with Fans**



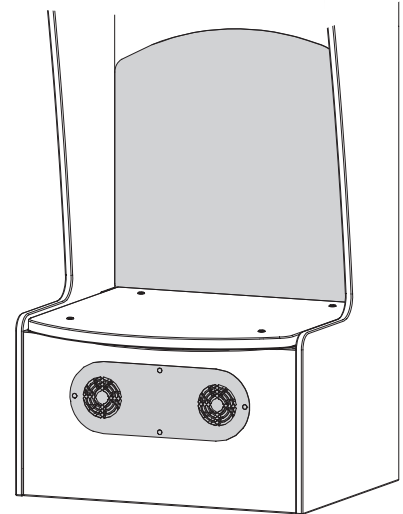
**Football Shoulder Pad/Helmet
Topper and Lighted Marquee**



**Fixed Seat and
Foot Locker Shelf**



**Padded Seat and
Passive Air Flow Vent**



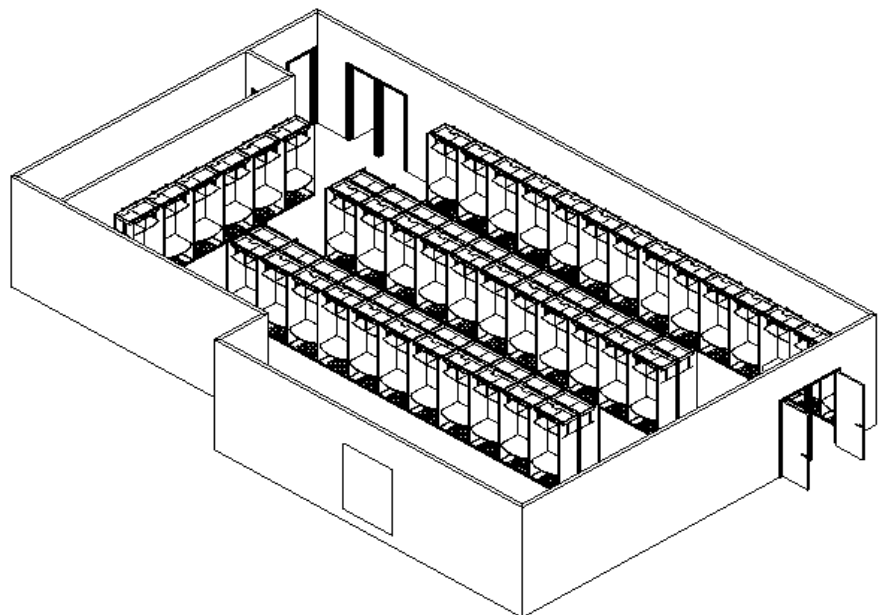
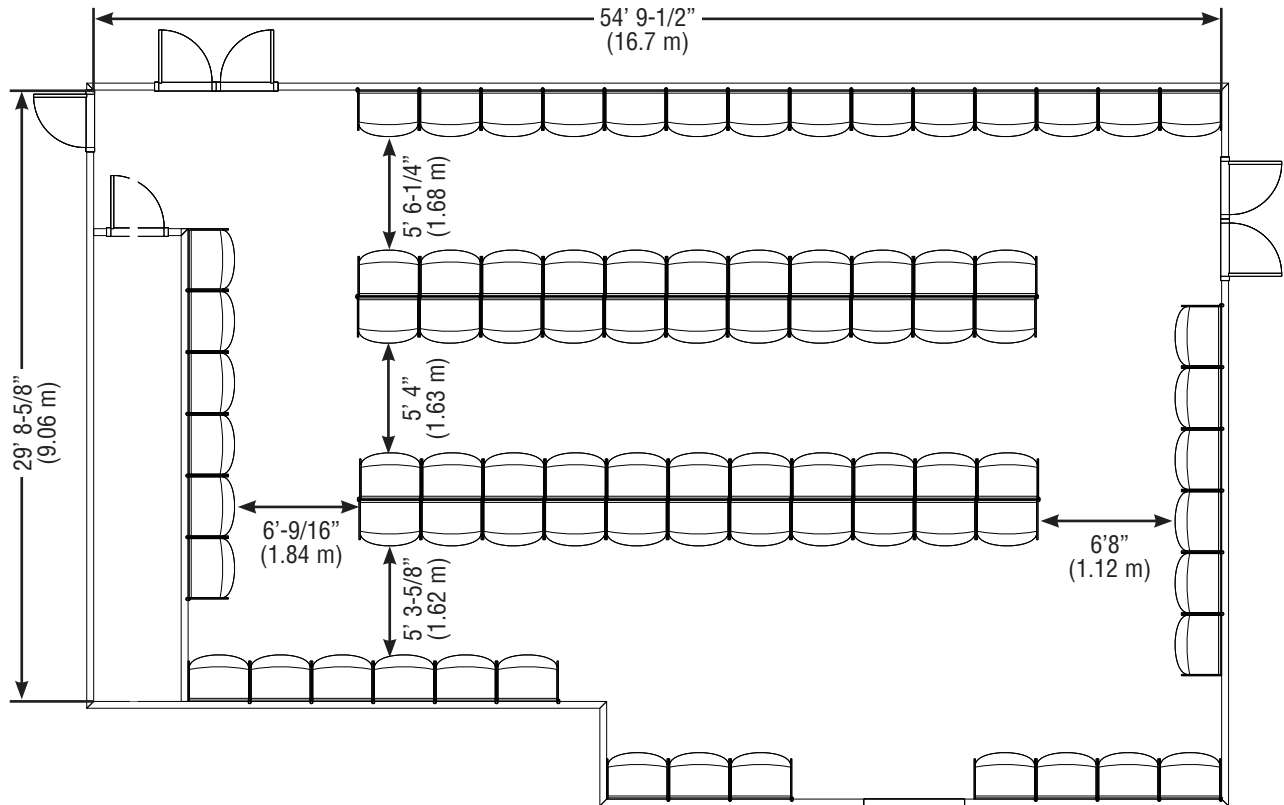
**Steel or Diamond Plate Seat Back
and Foot Locker Fan**

Athletic Equipment Storage

Typical Drawings

Customizable Wood Locker - Sample Configuration

Example of 83 Wood Locker Configuration (36" wide Wood Lockers shown)

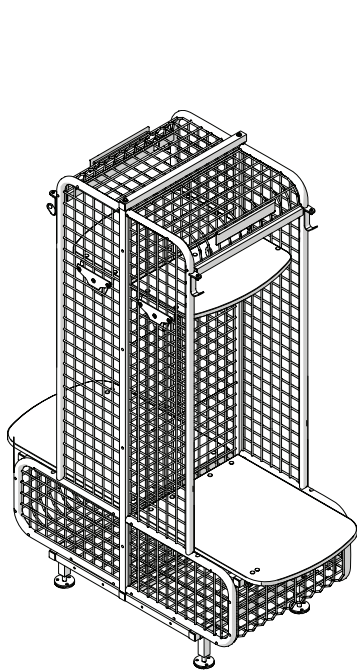


Athletic Equipment Storage

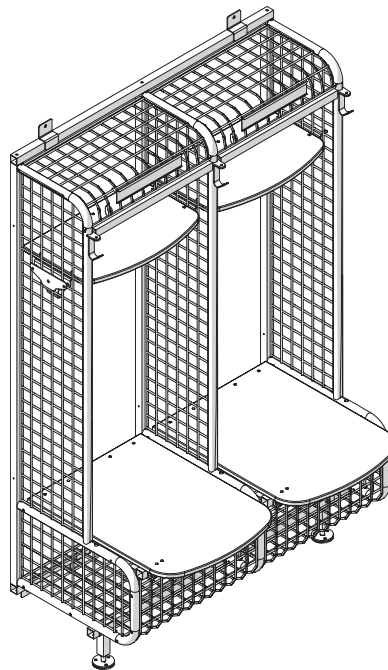
Application Information

AirPro™ Lockers

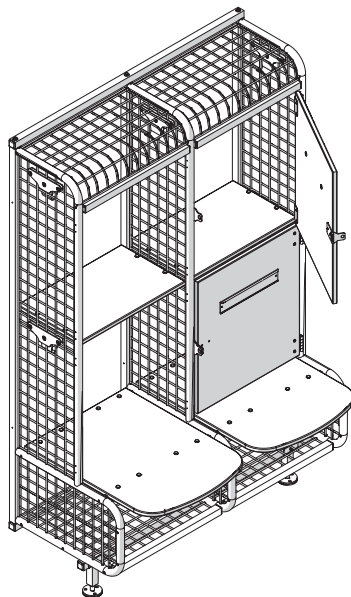
GearBoss AirPro Lockers are a big part of creating a Team Room that stands apart. A room that gets away from the commercial look of sheet metal solutions. A room that is infinitely more cleanable and as a result, more sanitary, faster drying and better smelling. A team room that carries a high-end aesthetic reflecting your pride and traditions. A team room that saves on floor space with integrated benches that open up your rooms and provide for more effective team meetings.



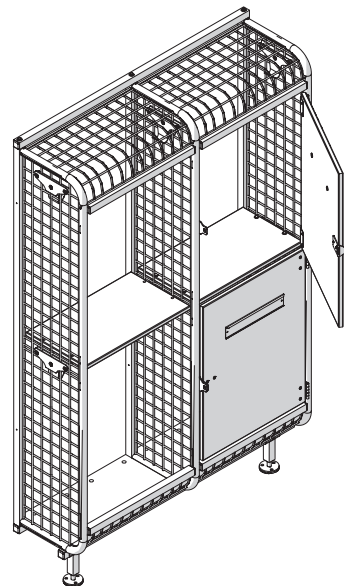
Island Mount Installation



Wall Mount Installation



Double Tier Seated Configuration



Double Tier Non Seated Configuration



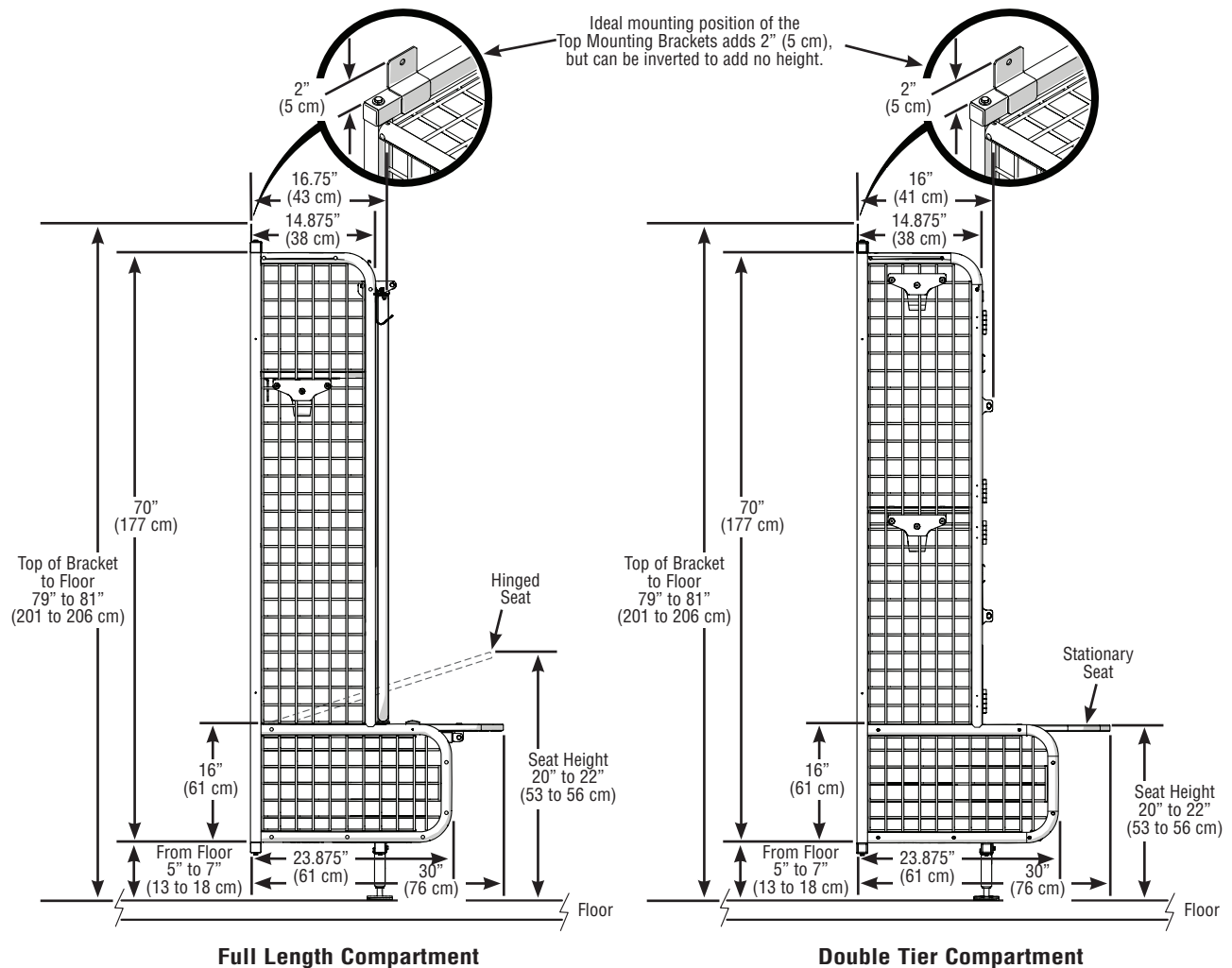
Athletic Equipment Storage

Application Information

Performance Requirements

- Highly durable and easily adaptable to reflect your school's athletic traditions.
- Open grid design promotes continuous airflow to encourage faster drying and keep contents free of mildew and odor buildup.
- Open design permits easy visual inspection of contents.
- Available in island mount and wall mount installations as well as double tier seated and non seated configurations.
- Shelf height can be varied specific to your installation with three garment hooks mounted under the shelf.
- Locker sizes:

Wall Mount and Double Tier Seated Lockers	Wall Mount and Double Tier Seated Lockers
15" wide x 70" high x 30" deep (38 x 178 x 76 cm) - 74 lbs (34 kg)	15" wide x 70" high x 14.875" deep (38 x 178 x 38 cm) - 61 lbs (28 kg)
18" wide x 70" high x 30" deep (46 x 178 x 76 cm) - 82 lbs (37 kg)	18" wide x 70" high x 14.875" deep (46 x 178 x 38 cm) - 64 lbs (29 kg)
21" wide x 70" high x 30" deep (53 x 178 x 76 cm) - 86 lbs (39 kg)	21" wide x 70" high x 14.875" deep (53 x 178 x 38 cm) - 67 lbs (30 kg)
24" wide x 70" high x 30" deep (61 x 178 x 76 cm) - 90 lbs (41 kg)	24" wide x 70" high x 14.875" deep (61 x 178 x 38 cm) - 70 lbs (32 kg)
27" wide x 70" high x 30" deep (69 x 178 x 76 cm) - 94 lbs (43 kg)	27" wide x 70" high x 14.875" deep (69 x 178 x 38 cm) - 73 lbs (33 kg)
30" wide x 70" high x 30" deep (76 x 178 x 76 cm) - 98 lbs (44 kg)	30" wide x 70" high x 14.875" deep (76 x 178 x 38 cm) - 76 lbs (34 kg)

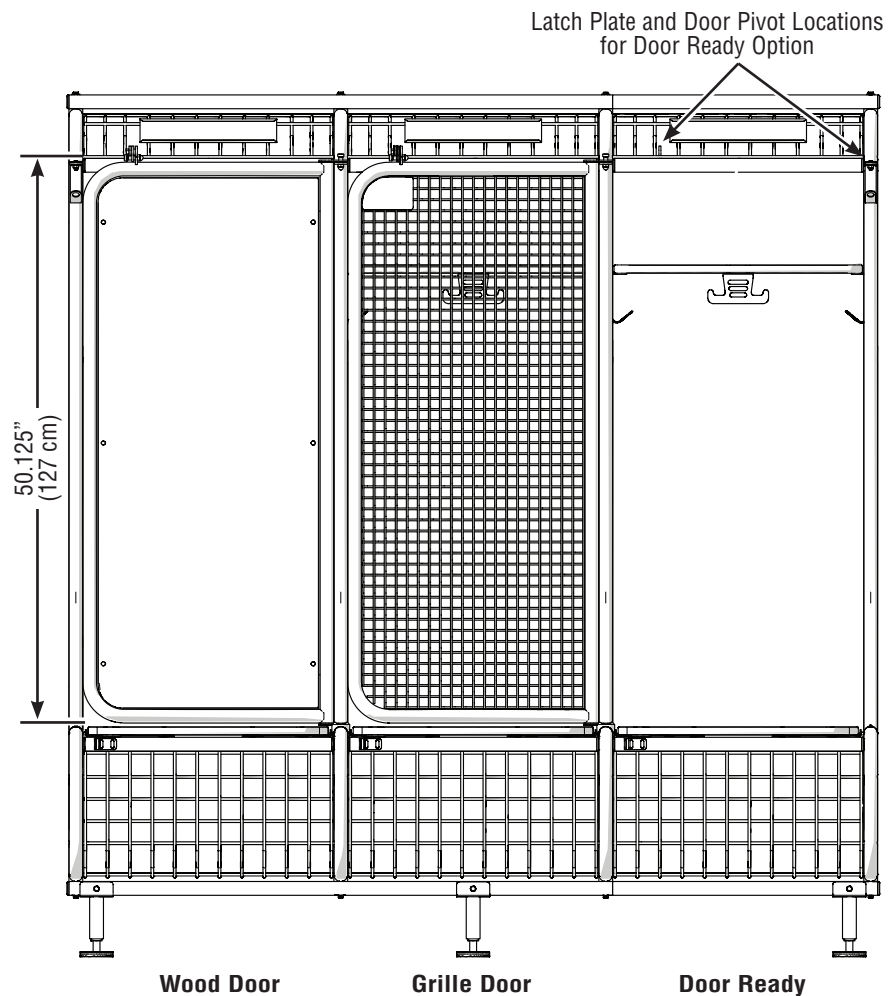


Athletic Equipment Storage

Application Information

Construction

- Frame is constructed of 1-1/4" x 16-gauge steel tubing.
- 1/4" (0.6 cm) steel wire grille sides welded at all intersections with standard 2" x 2" (5 x 5 cm) wire grid pattern.
- Adjustable shelf and integrated hinged seat are 3/4" (19 mm) thick formaldehyde free industrial grade composite wood with polyester laminate finish.
- Frame, wire grilles, legs and hardware standard finish is Black. Additional options are available.
- Standard seat and shelf laminate in antimicrobial Graphite finish. Other finish options are available.
- High-wear laminate options are available.
- Steel nameplate housing accepts a 12" x 2" (30 x 5 cm) nameplate.
Nameplate is mounted to the top grille as standard and mounted to the top door on the double tier shelf configuration.
- Garment hooks: One 10-gauge center double hook
Two 12-gauge side single hooks
Two additional 12-gauge side single hooks on double tier configurations.
- Mounted 5" to 7" (13 to 18 cm) above floor with open cleanable space under each locker.
- Legs at predetermined intervals for additional load support.
- Shipped ready-to-assemble with detailed instructions. Wenger assembly and installation is available.
- Ten-year warranty.



Note: Width dimensions are calculated from the center of each side tube, as a result 1-1/4" (3 cm) needs to be added to the required installation space for every run of lockers.

Wall space must accommodate an extra 6" (15 cm) in addition to the width of lockers to allow room for installation.

Athletic Equipment Storage

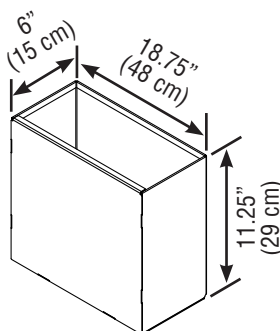
Application Information

Options

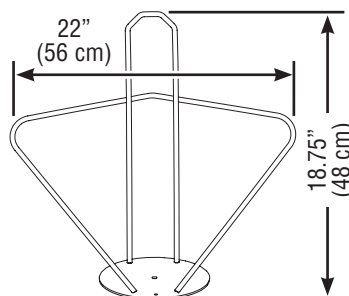
- Available in both Wall Mount and Island Mount installations.
- Double Tier Shelf configurations are available.
- Full Length Door options:
 - Lockable Wood Door is 5/8" (16 mm) thick industrial grade composite wood with polyester laminate finish and set inside 1-1/4" (3 cm) x 16-gauge tube frame.
 - Lockable Grille Door is 1-1/4" (3 cm) x 16-gauge tube frame and welded at all intersections with 1" (2.5 cm) wire grid pattern.
- - Wood Door and Grille Door options have a hasp located at the top of the door ready to receive a padlock. Door ready option has a hasp under the hinged seat ready to use with a padlock for footlocker content security. Padlocks are not supplied.
- Double Tier Compartment Door options:
 - Lockable Wood Door is 3/4" (19 mm) thick industrial grade composite wood with polyester laminate finish.
 - Lockable Grille Door is welded at all intersections with 1" wide x 4-1/4" high (2.5 x 11 cm) wire grid pattern.
 - Wood Door and Grille Door options have a hasp located at the side of the door ready to receive a padlock. Padlocks are not supplied.

Accessories

- Wood Backer Panel and End Panels are 5/8" (16 mm) thick industrial grade composite wood. Color to be selected from the manufacturer's standard color pallet.
- Security Box
 - 18-gauge steel box is bolted to the locker.
 - 6" wide x 12" long x 11-1/4" high (15 x 30 x 29 cm).
 - Powder-coat painted to match the frame.
 - Not available on Double Tier Configurations.
- Football Shoulder Pad and Helmet Topper
 - 22" wide x 13-1/4" long x 18-3/4" high (56 x 34 x 48 cm).
 - 3/8" (10 mm) diameter welded steel rod frame. Does not fit on 15" (38 cm) wide lockers.
 - Color to be selected from the manufacturer's standard powder-coat paint pallet.
 - Black is standard if no color is selected.
 - Not recommended for Double Tier Configurations.
- ADA-Compliant configurations are available.



**Five Sided Foot
Locker Security Box**



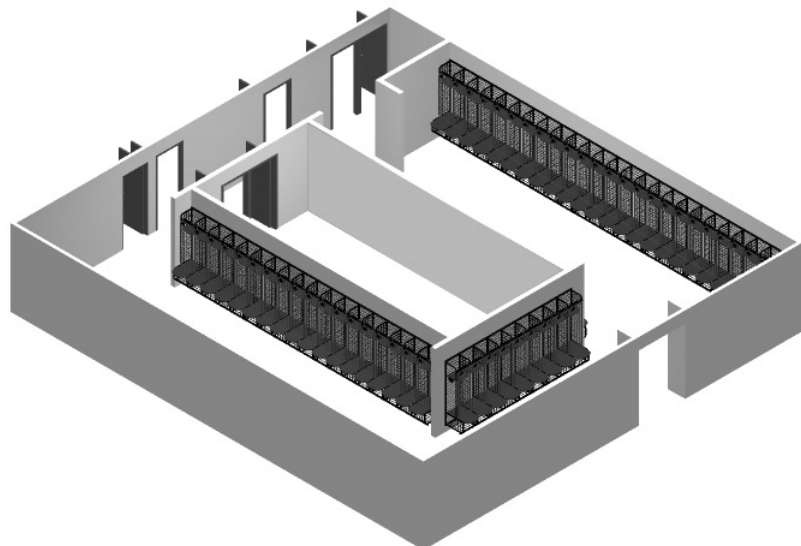
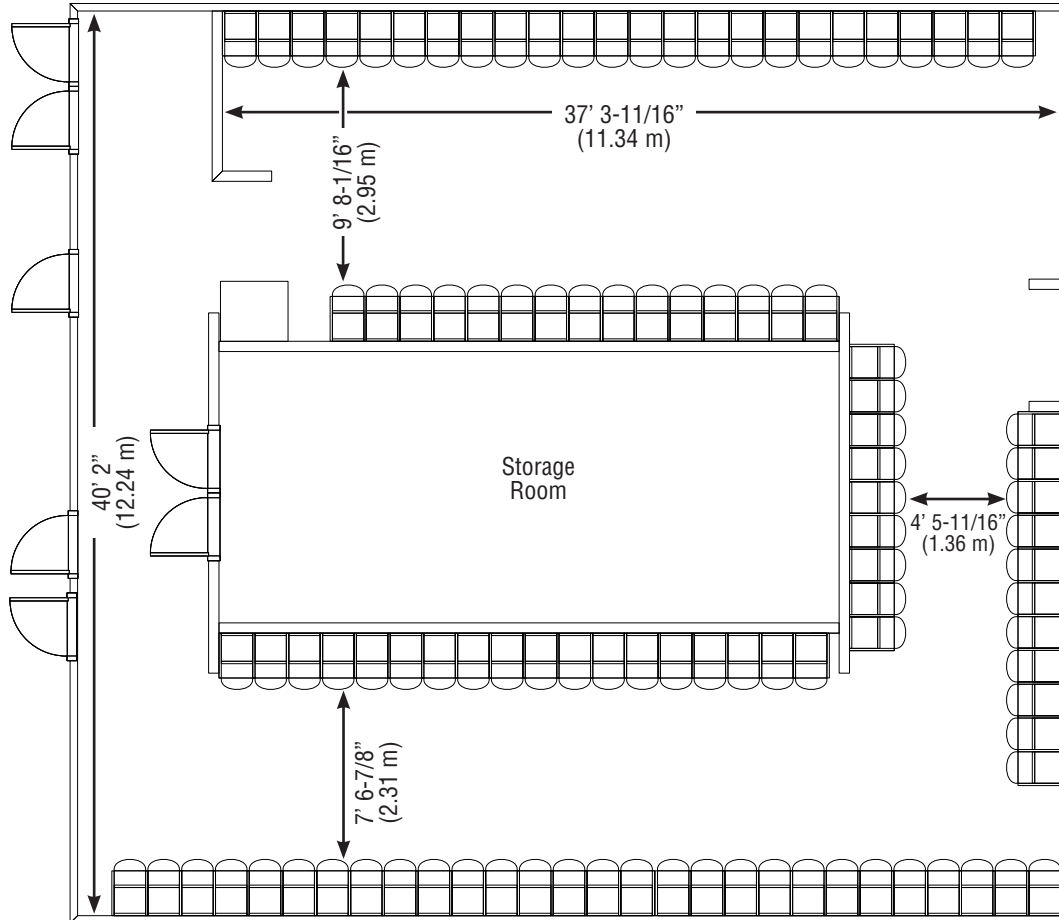
**Football Shoulder Pad
and Helmet Topper**

Athletic Equipment Storage

Typical Drawings

AirPro Locker - Sample Configuration

Example of 105 AirPro Locker Configuration (18" wide AirPro Lockers shown)

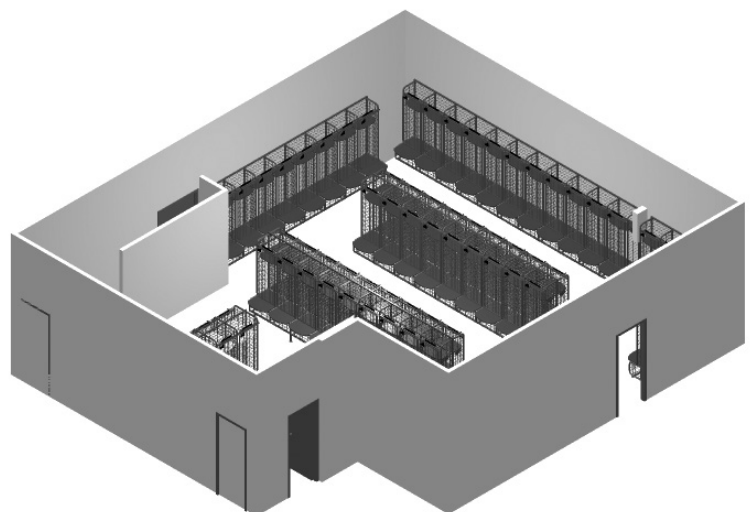
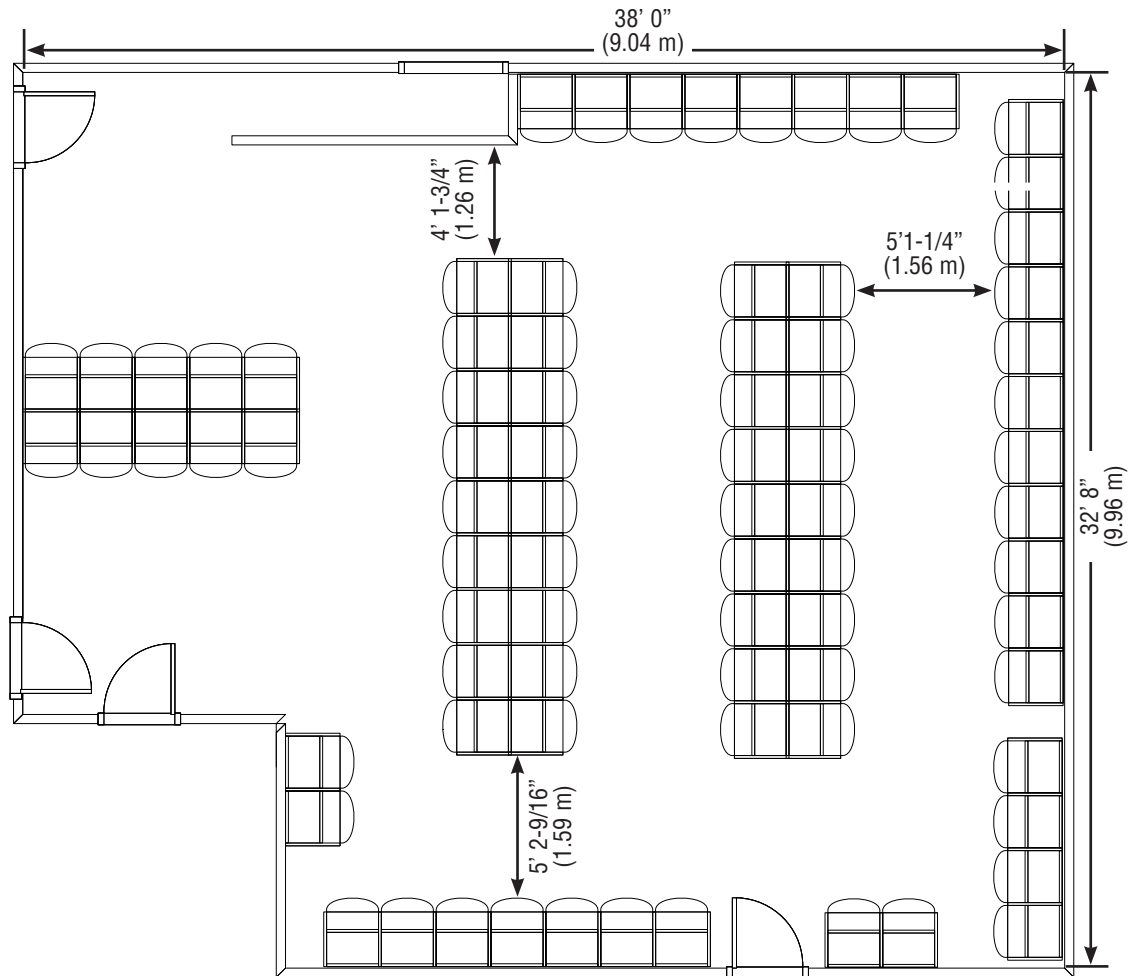


Athletic Equipment Storage

Typical Drawings

AirPro Locker - Sample Configuration (continued)

Example of 80 AirPro Locker Configuration with Island (24" wide AirPro Lockers shown)



Athletic Equipment Storage

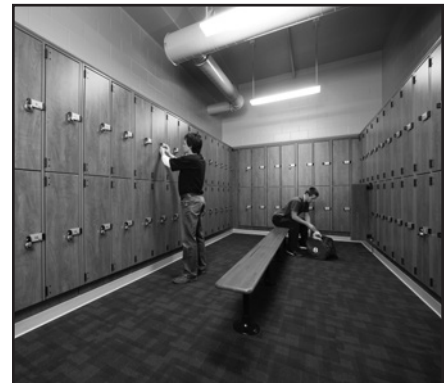
Application Information

UltraStor™ Custom Casework and Pass-Through Cubbies

Wenger custom casework solutions bring a higher level of function and aesthetics to athletic spaces. From lockers to pass-through laundry cubbies, Wenger will customize casework to enhance your designs. All of our solutions begin with high-quality standards including our patented polyethylene shelves designed to provide an easy-to-clean surface and to enhance air-flow. We use a polyester laminate which out-performs cheaper melamine solutions. Antimicrobial laminate options can add another line of defense against sanitation issues. Bolt-through construction means that doors and connection points will never pull out and replacement doesn't require breaking apart glue and dowel construction.

Performance Requirements

- Choice of solid doors, straight grille doors or no doors.
- Polyester laminate and formaldehyde free industrial grade composite wood core resists chipping and looks new years longer than other laminates.
- Shelves feature patented ventilation ridges and rounded front edges, improving airflow crucial to equipment and garment longevity.
- Load-tested hinges and lock assemblies stand up to institutional use.
- 85-5/8" (217 cm), 69-3/4" (177 cm) and 38-5/16" (97 cm) heights available to meet your students' needs. Middle school and elementary school students cannot easily reach storage compartments more than 68" (173 cm) off the floor.
- Standard 27-1/2" (69.85 cm) wide and 21" (53.34 cm) narrow widths available.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for these products can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.



Custom Casework



Pass-Through Cubbies

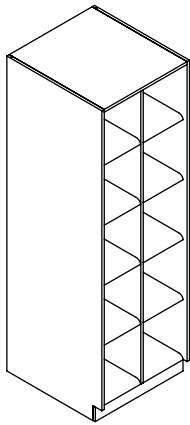


Athletic Equipment Storage

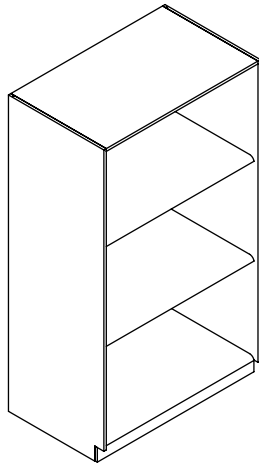
Application Information

Construction

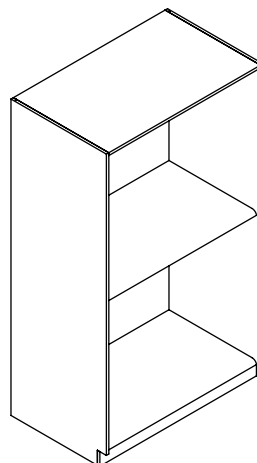
- Wall panels are 3/4" (19 mm) thick formaldehyde free industrial grade composite wood with polyester laminate finish in Wenger standard Wenger colors.
- Available with right- or left-hinged (standard) doors for easy access.
- Bolt-through construction maintains superior door and hardware condition, year after year.
- Seismic-compliant bracing available upon request as a special order.
- Available in several core substrates to meet your specific needs:
fire-rated, formaldehyde free industrial grade composite wood (standard), moisture-resistant, FSC certified, and Vencore (plywood).
- Ten-year warranty.



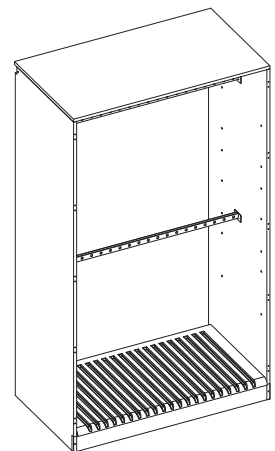
Cabinet #4
shown without doors



Cabinet #12
shown without doors



Cabinet #15
shown without doors



Cabinet #35
shown without doors

See the "Instrument Storage" and "Robe and Uniform Storage" sections for more expansive coverage of storage cabinets.

Athletic Equipment Storage

Application Information

GearBoss® High-Density Storage

GearBoss high-density storage carts create more room in less space – improving space efficiency by as much as 50% – by using an innovative system of tracks and rolling carts.

X-Carts are designed to move laterally on the track and stay in your equipment room.

Team Carts are portable and engineered with retractable track guides so you can move the equipment around the room or off campus. No more wasted time running back and forth to the storage room.

Every cart can be reconfigured for maximum storage. The best solution includes a mix of X-Carts and Team Carts.

Your Wenger representative will design the best solution for you.

Bottom line — you'll get a flexible sports storage system engineered to meet every challenge.

Performance Requirements

- Convert traditional storage area into organized, secure high-density space.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.

Construction

- Available in two widths 32" (81 cm) and 48" (122 cm).
- Roller guides follow the track keeping the units aligned and are made of glass-filled nylon.
- Intended for indoor use in normal ambient temperature and humidity conditions — must not be exposed to prolonged outside weather conditions.
- Welded chassis made from 16-gauge, 14-gauge and 12-gauge components.
- Upright support tubes constructed from large 2" (5 cm) diameter, 16-gauge steel tubing.
- Resistant-welded heavy-duty steel wire grille end frames.
- Durable powder-coat paint finishes.
- Variety of colors available for wire grille ends.
- Heavy-duty 6" (15 cm) wheels provide easy movement.
- Roof panel constructed from solid 5/8" (1.5 cm) thermofused composite wood core with aluminum extrusions is rated for a 150 lb (67.5 kg) load.
- 32" wide x 78" long x 79" high (81 x 198 x 201 cm).
- 48" wide x 78" long x 79" high (122 x 198 x 201 cm).
- Five-year warranty.



Athletic Equipment Storage

Athletic Layout Estimate

Start here and Wenger will put together a proposal.

Firm: _____

Name: _____

Title: _____

Firm: _____

City/State/Zip: _____

Phone: _____ Fax: _____

E-mail: _____

Best time and method of contact: _____

School/Project Name: _____

City: _____ State: _____

Estimated Delivery (quarter & year) _____

Room Size: (Space #1) Dimensions: Height _____ Length _____ Width _____

Room Size: (Space #2) Dimensions: Height _____ Length _____ Width _____

To receive a site drawing with your proposal, include a copy of the prints, floor plan and elevation showing locations of windows, doors, ventilation, sprinklers and other permanent fixtures.

For a Wenger representative to provide you with estimates and drawings, also fill out the following to the best of your ability.

Number of Players		Number of Players	
Football	Male _____ Female _____	Spirit Squad	Male _____ Female _____
Number of Helmets:	_____	Dance	Male _____ Female _____
Preference	Hanging _____ Shelved _____	Ice Hockey	Male _____ Female _____
Number of Shoulder Pads:	_____	Field Hockey	Male _____ Female _____
Preference	Hanging _____ Stacked _____	Swim/Dive	Male _____ Female _____
Bball/Sball	Male _____ Female _____	Tennis	Male _____ Female _____
Soccer	Male _____ Female _____	Golf	Male _____ Female _____
Basketball	Male _____ Female _____	Other	_____
Wrestling	Male _____ Female _____		Male _____ Female _____
Volleyball	Male _____ Female _____	Other	_____
Cross Country	Male _____ Female _____		Male _____ Female _____
Track	Male _____ Female _____	Other	_____
Lacrosse	Male _____ Female _____		Male _____ Female _____

Please fax or email this form today. Attn: Athletic Specialist

Fax: 507-455-4258 Phone: 800-493-6437

email: info@wengercorp.com

Wenger Corporation, 555 Park Drive, P.O. Box 448, Owatonna, MN 55060

Athletic Equipment Storage

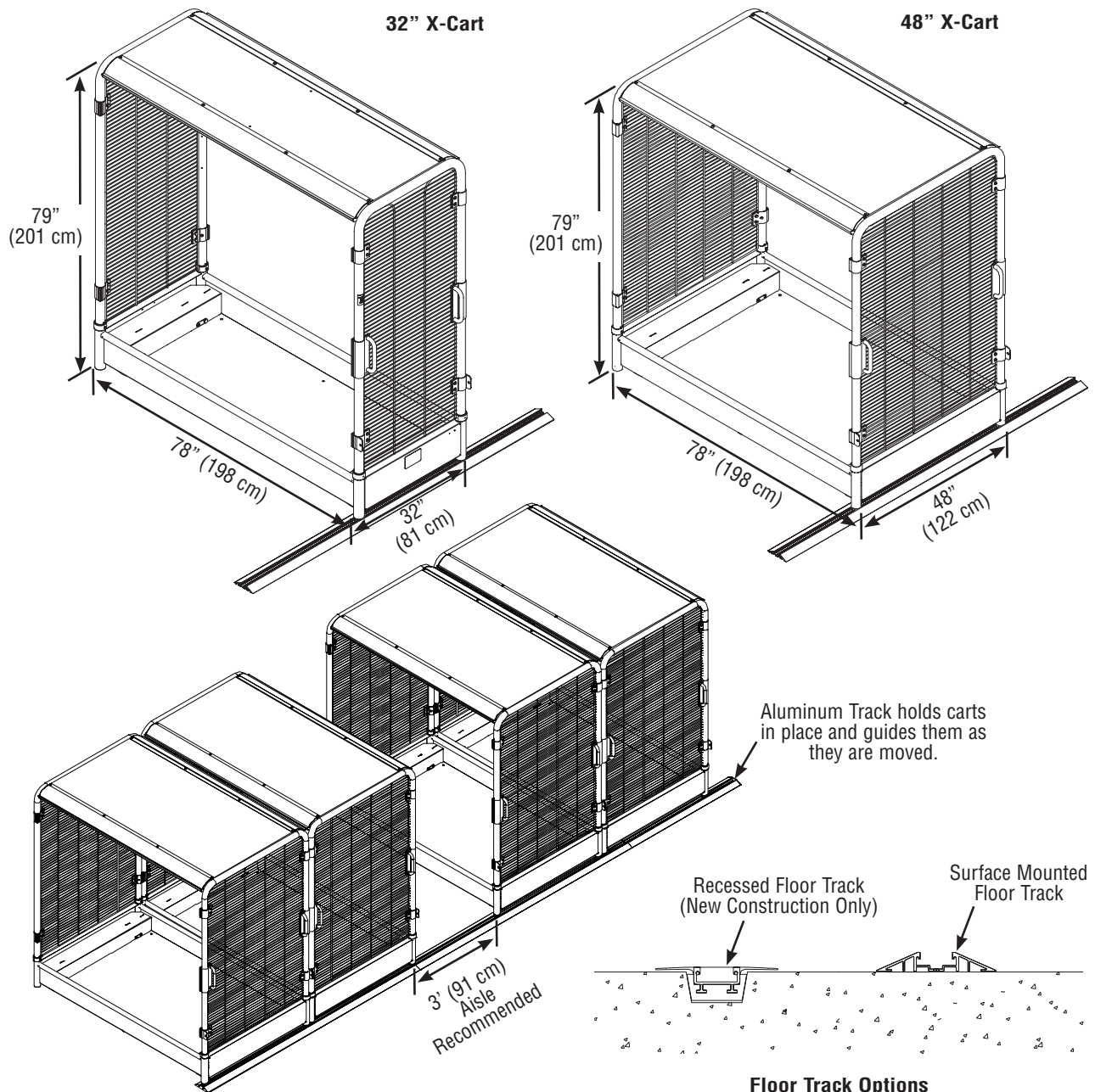
Application Information

GearBoss® X-Cart™

High density storage carts that maximize your space by sliding together and apart along a fixed aluminum track.

Transforming your equipment room into an organized, clean, professional storage space is easy with GearBoss. Our rugged X-Carts create an efficient, smart system of storage that will save space, protect your equipment, and save you loads of time spent organizing.

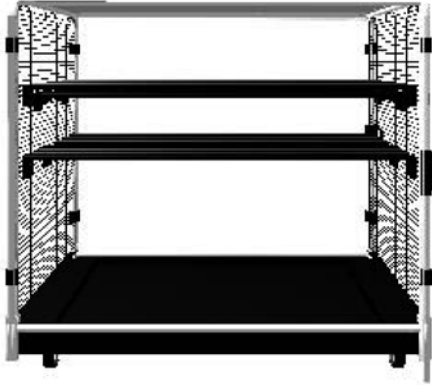
X-Carts roll laterally along a fixed aluminum track creating aisles between carts when you need to get at your equipment and closing back together when you don't. Carts can be configured with a full range of panels, doors and grilles coordinated with your team colors. You can also add accessories such as doors, helmet hangers, shoulder pad stackers, hanger bars, shelves, dividers, track locks and more. Select colors from the manufacturer's standard pallet.



Athletic Equipment Storage

Application Information

GearBoss® X-Carts™ Examples



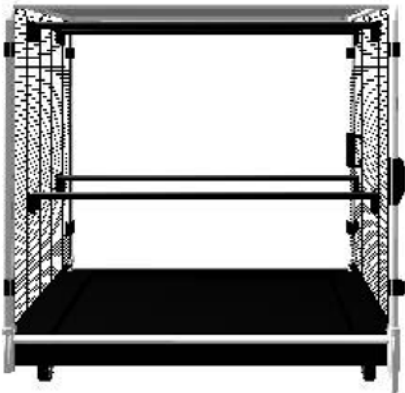
48" wide X-Cart with four 24" wide Metal Wire Shelves and two Garment Bars.

Commonly used to store uniforms
(300 - 350 uniforms: jerseys hung; pants/shorts folded)



48" wide X-Cart with eight 24" wide Metal Wire Shelves.

Commonly used for folded garment storage
(960 - 1000 t-shirts and/or shorts)



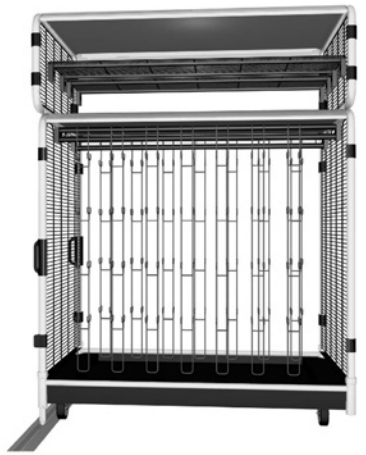
48" wide X-Cart with four Garment Bars.

Used for hanging garments
(600 - 700 hung jerseys)

Athletic Equipment Storage

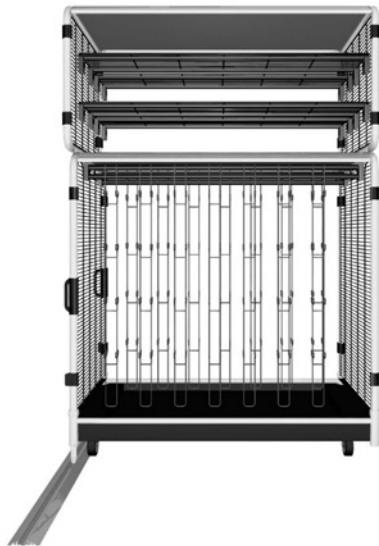
Application Information

GearBoss® X-Carts™ Examples (continued)



48" wide X-Cart with Short Attic and Helmet Hangers.

Capacity for 154 helmets
(112 helmets hung and 42 helmets in attic)



48" wide X-Cart with Tall Attic and Helmet Hangers.

Capacity for 175 helmets
(112 helmets hung and 63 helmets in attic)

Athletic Equipment Storage

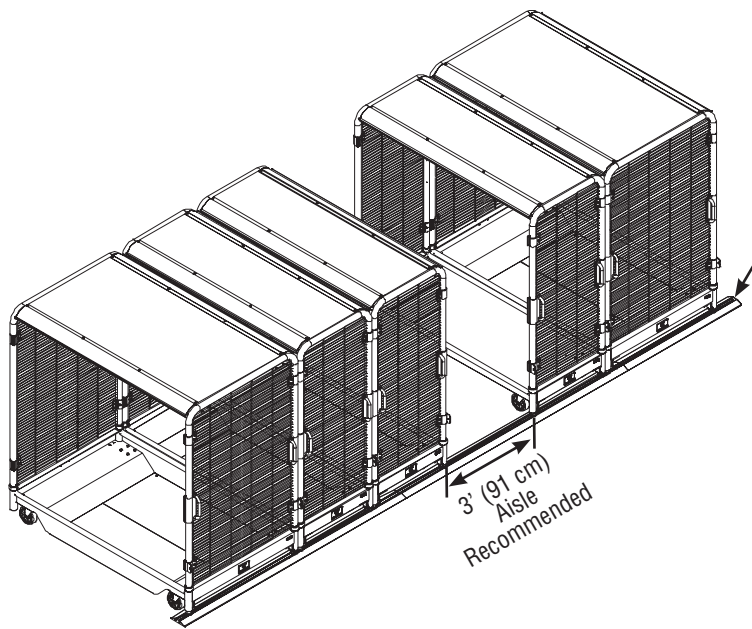
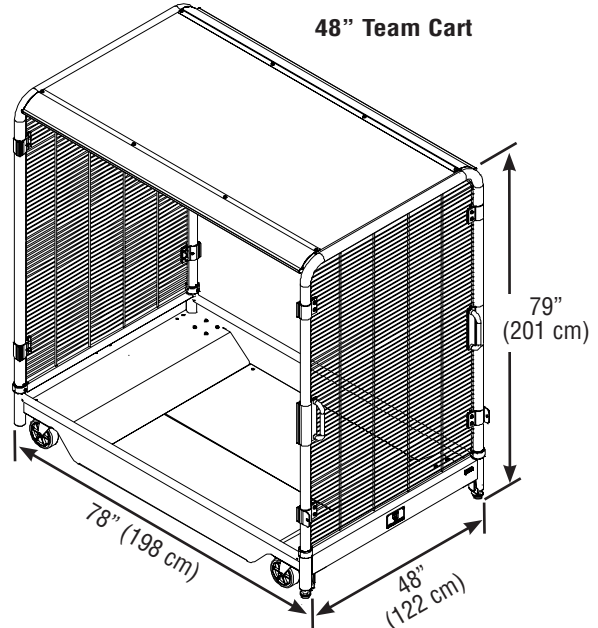
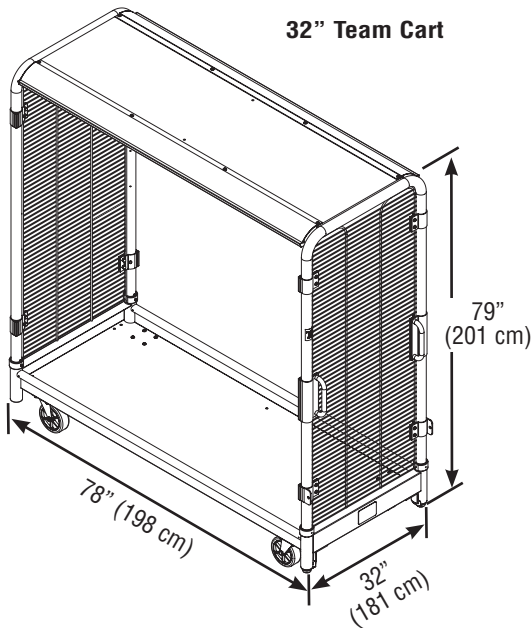
Application Information

GearBoss® Team Cart™

High density storage carts that can leave the track and transport your gear wherever you need it.

Now it's easy to get your equipment out of storage and to the gym, practice area, parking lot or sidelines – without breaking a sweat.

GearBoss Team Carts retain all the convenient storage benefits of X-Carts but are engineered to leave the track. Imagine all your gear organized on one or two high-density storage carts, traveling wherever it needs to go – and back again. Or park and lock your equipment in a temporary space, instantly creating safe, secure storage anywhere.



Aluminum Track holds carts in place and guides them as they are moved.



Athletic Equipment Storage

Application Information

GearBoss® Team Cart Examples (continued)



32" wide Team Cart with two 32" wide Metal Wire Shelves and one Garment Bar.

Commonly used to store uniforms
(150 - 175 uniforms: jerseys hung; pants/shorts folded)



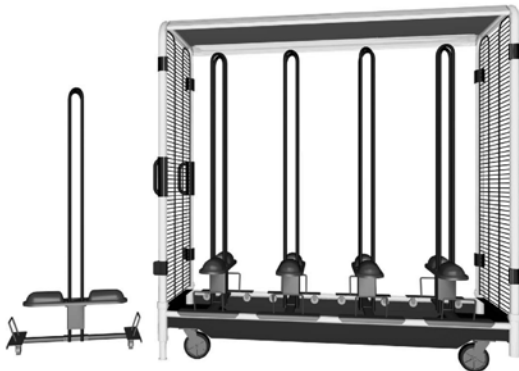
32" wide Team Cart with five 32" wide Metal Wire Shelves.

Commonly used to store helmets
(70 helmets on shelves)



32" wide Team Cart with seven Helmet Hangers.

(8 helmets per hanger or 56 helmets)



32" wide Team Cart with four Shoulder Pad Stackers and one Free Standing Shoulder Pad Stacker.

(18 - 25 pads per stacker or 100 pads)

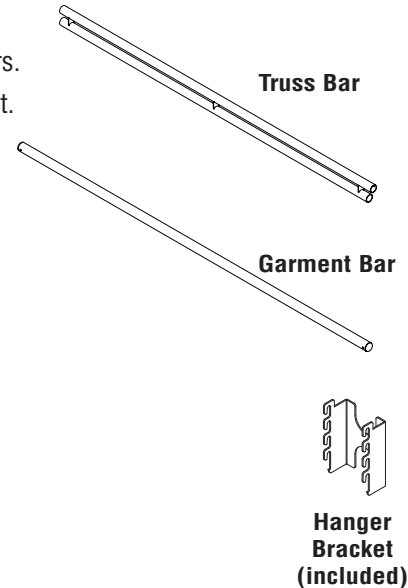
Athletic Equipment Storage

Application Information

Accessories

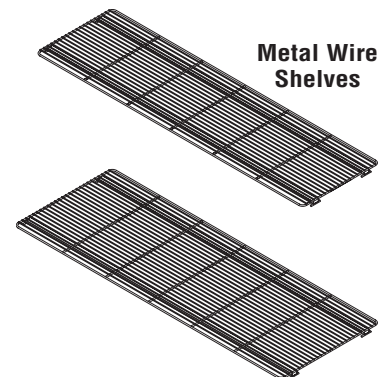
Truss Bar/Garment Bar

- Designed to be installed into the GearBoss X-Carts or Team Carts using two accessory hanger brackets.
- The Truss Bar is designed to be used with shoulder pad hangers, helmet hangers.
- The double-bar construction reduces the swinging motion of hanging equipment.
- The Garment Bar is designed to be used with standard garment hangers, support up to 175 jerseys.
- Durable powder-coat paint finish, black.
- Shipped ready to be installed, no tools required.
- Truss Bar, 1-1/2" x 4" x 75-1/2" long (4 x 10 x 192 cm).
200 lbs (90.7 kg) load rating.
- Garment Bar, 1-1/2" diameter x 75-1/2" long (4 x 192 cm).
100 lbs (45.4 kg) load rating.



Metal Wire Shelves

- Designed to be installed into the GearBoss X-Carts or Team Carts using four accessory hanger brackets per shelf.
- Resistant welded construction of 3/16" and 5/16" (4.7 and 7.9 mm) metal wires.
- Shipped ready to be installed, no tools required.
- The 24" (61 cm) wide shelf allows for shelving half of a 48" (122 cm) cart or all of the cart with two shelves.
- Wire Shelf 24" (61 cm), dimensions 21-5/8" x 74-7/8" (55 x 190 cm).
Approximate weight, 35 lbs (15.9 kg).
- Wire Shelf, 32" (81 cm), dimensions 27-5/8" x 74-7/8" (70 x 109 cm).
Approximate weight, 40 lbs (18.1 kg).
- Rated for 150 lbs (68 kg) evenly distributed.



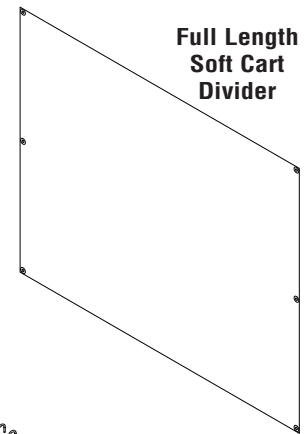
Athletic Equipment Storage

Application Information

Accessories (continued)

Soft Cart Divider

- Mesh divider allows you to divide a 48" (122 cm) wide GearBoss cart lengthwise. The mesh dividers allow visibility through the cart.



Helmet Hangers

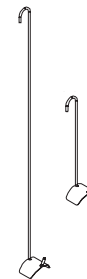
- Designed to be used with the Truss Bar, 7 helmet hangers per Truss Bar.
- Accommodates 8 helmets.
- Welded construction using 5/16" and 1/4" (7.95 and 6.35 mm) steel wires.
- Powder-coat paint finish, black.
- Approximate Weight: 5 lbs (2.3 kg).



Helmet Hangers

Shoulder Pad Hangers

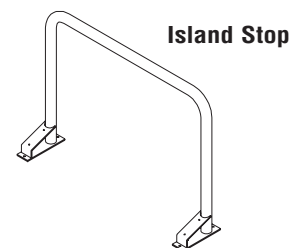
- Designed in short and long versions.
- Designed to be used with the Truss Bar, 15 shoulder pad hangers of each size per Truss Bar.
- Welded construction using 5/16" (7.95 mm) wire and 12 gauge formed plate.
- Powder-coat paint finish, black.
- Shoulder Pad Hanger, short. Approximate weight, 1 lbs (0.5 kg).
- Shoulder Pad Hanger, long. Approximate weight, 2 lbs (0.9 kg).



Shoulder Pad Hanger

Island Stop

- Designed to be permanently installed as an end stop for the GearBoss Carts.
- Welded frame constructed of durable 2" (5 cm) diameter x 16 gauge steel tubing.
- Durable powder-coat paint finish, black
- Dimensions are 9-5/8" wide x 42-3/4" long x 30-1/2" tall (24 x 109 x 77 cm).
- Approximate weight: 24 lbs (10.9 kg).
- Shipped fully assembled.



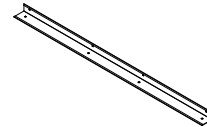
Athletic Equipment Storage

Application Information

Accessories (continued)

Shelf Lip

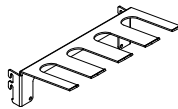
Secures with the same knobs as the dividers and can be set up with the tall side out for a 4" (10cm) lip or the short side out for a 2.5" (6.3cm) lip.



Full Length Shelf Lip

Bat Holder

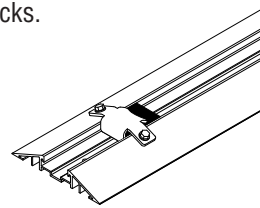
32" Bat Holder holds up to 16 bats.



32" Bat Holder

Adjustable Track Lock

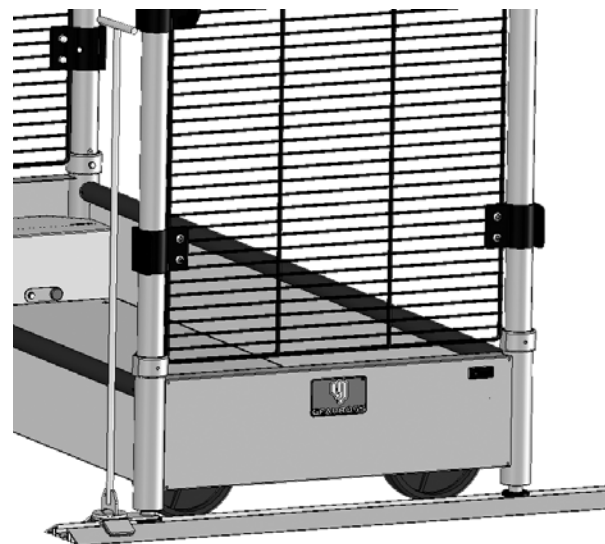
Designed to prevent carts from rolling beyond the end of the tracks.



Adjustable Track Lock

Adjustable Track Stop Bracket

Designed to lock the carts into position along the track.



Adjustable Track Stop Bracket

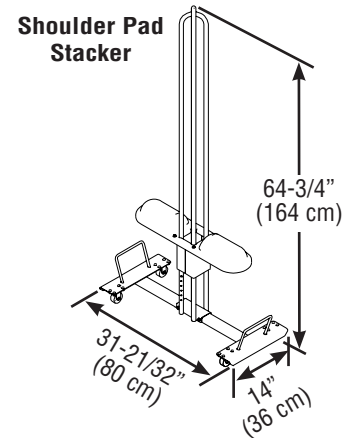
Athletic Equipment Storage

Application Information

Accessories (continued)

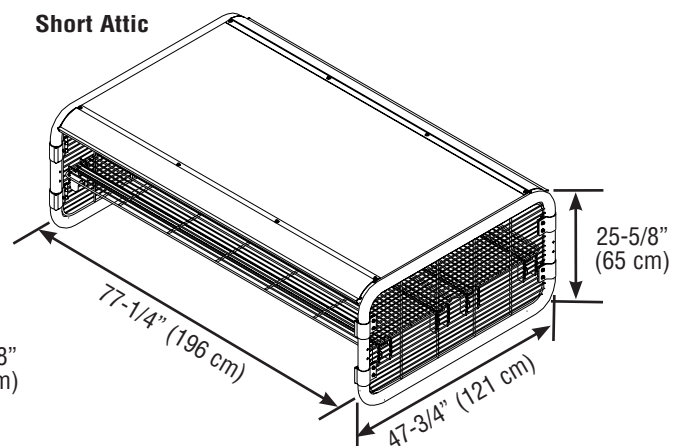
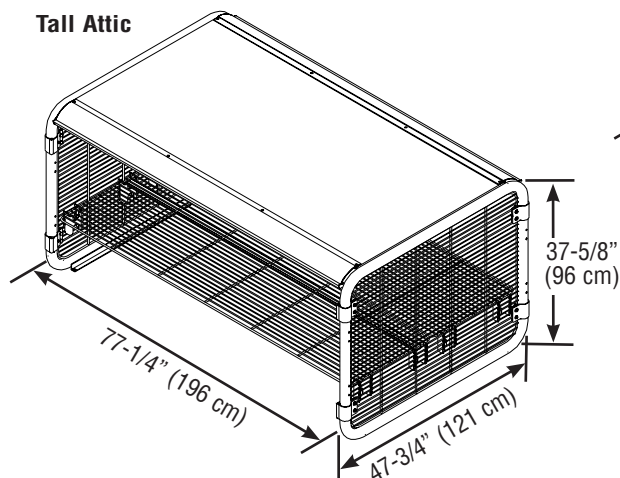
Shoulder Pad Stacker

- Designed to store and or transport approximately 18-25 shoulder pads depending on pad style.
- Support tubes constructed of durable 3/4" (19 mm) x 16 gauge steel tubing.
- Specially molded support preserves pad shape.
- The molded support is vertically adjustable to accommodate pads with shallow or deep chest protection.
- Durable powder-coat paint finish, color black.
- Equipped with wheels, for mobility, when used as a stand-alone device.
- Overall dimensions, 31-21/32" wide x 64-3/4" high (80 x 164 cm).
- Approximate weight, 31 lbs. (14.1 kg).
- Intended use is with the 32" (81 cm) X-Carts, Team Carts and GearBoss II or as a free standing shoulder pad storage and transportation device.
- Not intended to be used with and will not work with Carts equipped with the Side Closure Accessory or the Bypass Door Accessory.



Attic

- Attics are available in two heights 25-5/8" (65 cm) and 37-5/8" (96 cm).
- Welded end frames made from 2" (5 cm) diameter x 16 gauge steel tubing.
- Resistant welded heavy-duty steel wire grill end frames.
- Durable powder-coat paint finish.
- Roof panel constructed from solid 5/8" (15.9 mm) thermofused composite wood core with aluminum extrusions,
- the roof assembly is rated for 150 lbs (68 kg) load.
- Designed to be accessorized with the 24" (61 cm) wide wire shelves.
- Approximate weights:
 - Short attic, 115 lbs (52 kg)
 - Tall attic, 123 lbs (56 kg).
- Designed only to be used on the 48" (122 cm) X-Cart.



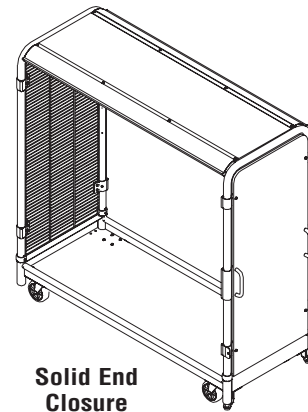
Athletic Equipment Storage

Application Information

Accessories (continued)

Solid End Closure

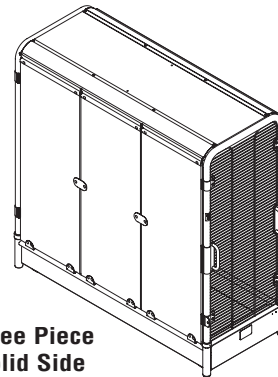
- Made from solid 5/8" wood composite with polyester laminate finish and black heavy-duty PVC edge banding.
- Can be ordered in a variety laminate colors.
- Provides an excellent space for team logos.
- Adds a level of security to carts.
- Cart End Closure, 32" (81 cm)
- Dimensions: 27-1/4" x 64-5/16" (96 x 163 cm)
Approximate Weight: 25 lbs (11.3 kg).
- Cart End Closure, 48" (122 cm)
- Dimensions: 43-1/4" x 64-5/16" (110 x 163 cm)
Approximate Weight: 48 lbs (21.8 kg).



Solid End Closure

Three Piece Solid Side Closure Accessory

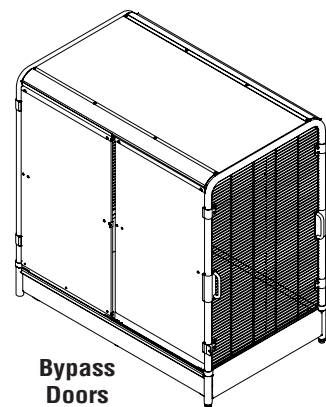
- Made from solid 5/8" wood composite with polyester laminate finish and black heavy-duty PVC edge banding.
- Can be ordered in a variety laminate colors.
- Securely closes one side of cart opposite open side or opposite a bypass door adding a level of security to carts.
- Shipped ready-to-assemble.
- Dimensions: 65" x 73" (165 x 185 cm).
- Approximate Weight: 75 lbs (34 kg).



Three Piece Solid Side Closure

Bypass Doors Accessory

- Made from solid 5/8" wood composite with polyester laminate finish and black heavy-duty PVC edge banding.
- Can be ordered in a variety laminate colors.
- Easy glide aluminum track provides convenient access.
- Sliding doors lockable with padlock (not supplied) for added security.
- Shipped ready-to-assemble.
- Dimensions: 65" x 73" (165 x 185 cm).
- Approximate Weight: 86 lbs (39 kg).



Bypass Doors

Athletic Equipment Storage

Application Information

GearBoss® SportCart™

Compact GearBoss SportCarts can be used as part of a larger GearBoss installation or as a mobile, stand-alone solution.

They are designed for use in small spaces and for sports that require less storage.

Four heavy-duty, 5" swivel casters make mobility a snap. The nimble SportCart will navigate narrow hallways, shorter door openings and most elevators.

It's the small-space storage solution.

Performance Requirements

- High density storage on or off the track.
- Heavy-duty commercial-grade swivel casters for easy moving on hard surfaces such as concrete, gym floors, tile and low-pile unpadded carpet.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.

Construction

- Welded chassis made from 16-gauge, 14-gauge and 12-gauge components.
- Upright support tubes constructed from large 2" (5 cm) diameter, 16-gauge steel tubing.
- Resistant welded heavy-duty steel wire grille end frames.
- Variety of colors available for wire grille ends.
- Extra wide heavy-duty 5" (12.7 cm) swivel casters made from glass-filled nylon with polyurethane non-marring outer roller guides.
- Roof panel is solid 5/8" (1.5 cm) thermofused composite wood core with aluminum extrusions is rated for a 150 lb (67.5 kg) load.
- 32" (81 cm) wide x 41-2/3" (106 cm) long x 74-1/2" (189 cm) high.
- Five-year warranty.

Accessories

Swing Door & Side Closure

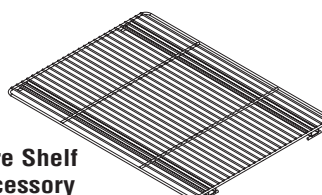
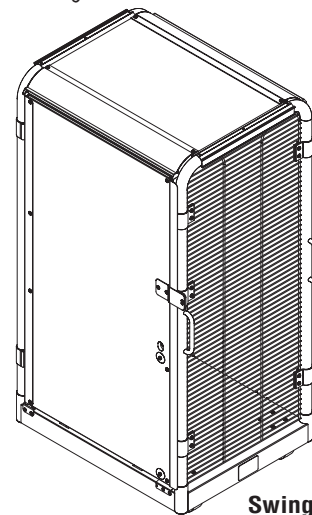
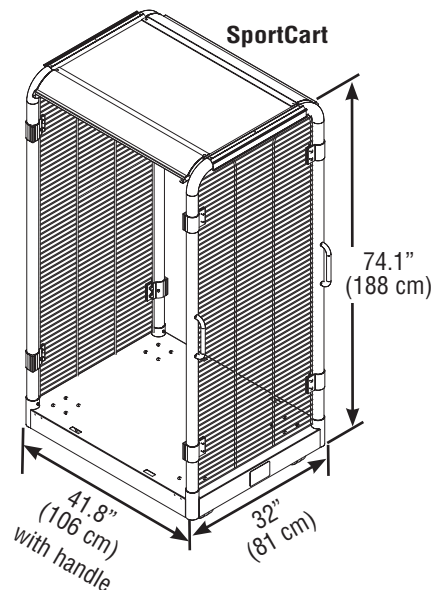
- Swing door lockable with padlock (not supplied) for added security.
- Made from solid 5/8" wood composite with polyester laminate finish and black heavy-duty PVC edge banding.
- Can be ordered in a variety of laminate colors.
- Dimensions: Swing Door 34-1/8" x 63-1/2" (87 x 161 cm).
- Side Closure 34-7/8" x 65-5/8" (89 x 167 cm).
- Approximate Weight: Swing Door 52 lbs. (24 kg).
- Side Closure 41 lbs. (19 kg).

Garment Bar

- Designed to be installed using two included hanger brackets.
- Designed to be used with standard garment hangers and supports up to 80 jerseys.
- Durable black powder-coat paint finish.
- Dimensions: 37-1/2" (95 cm) x 1-1/2" OD".
- Rated for 100 lbs. (45 kg) weight evenly distributed.

Metal Wire Shelves

- Designed to be installed using four included hanger brackets per shelf.
- Resistant welded construction of 3/16" and 5/16" (4.7 and 7.9 mm) metal wires.
- Rated for 150 lbs. (68 kg) evenly distributed.
- Dimensions: 27-5/8" x 37" (70 x 94 cm).
- Approximate Weight: 20 lbs. (9 kg).



Athletic Equipment Storage

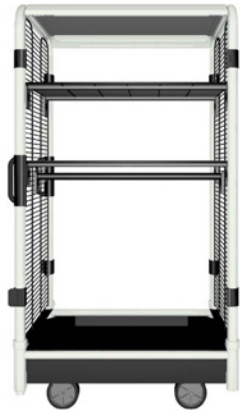
Application Information

Sport Cart examples



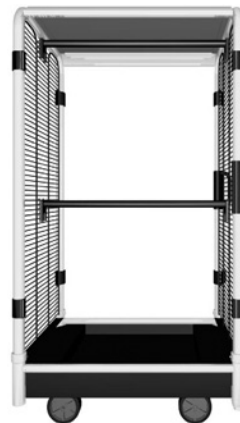
SportCart with three Metal Wire Shelves.

Commonly used for folded garments
(160 - 200 folded t-shirts and/or shorts)



SportCart with two Metal Wire Shelves and one Garment Bar.

Commonly used for uniforms
(80 uniforms: 80 hung jerseys; 80 folded pants/shorts)



SportCart with two Garment Bars.

Commonly used for uniforms
(160 hung jerseys; ½" spacing)

Athletic Equipment Storage

Application Information

GearBoss® II High-Density Storage System

The newest high-density storage system from Wenger joins our successful Team and X-Carts in creating athletic equipment storage rooms that make better use of available space. With this new system you get the same space-saving organization as our existing carts in a simplified system with a budget-friendly price.

You will gain more control over the time and money lost to poor organization, lax security and misplaced inventory. This storage system is simply a better way to care for and secure your equipment investments.

Performance Requirements

- Convert traditional storage area into organized, high-density space.
- Fixed track system creates a movable aisle to maximize otherwise wasted space and allow interior access to the carts and surrounding area.
- Intended for indoor use in normal ambient temperature and humidity conditions — must not be exposed to prolonged outside weather conditions.
- Open grille design improves airflow and facilitates visibility.

Construction

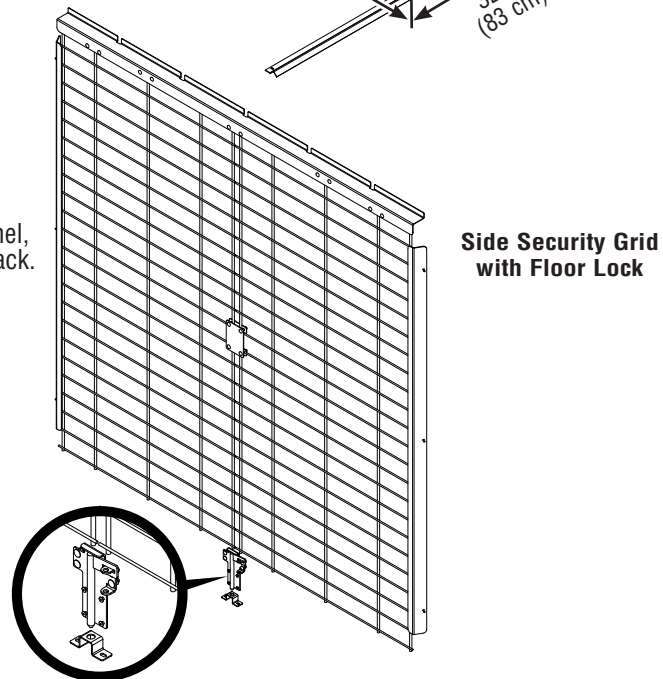
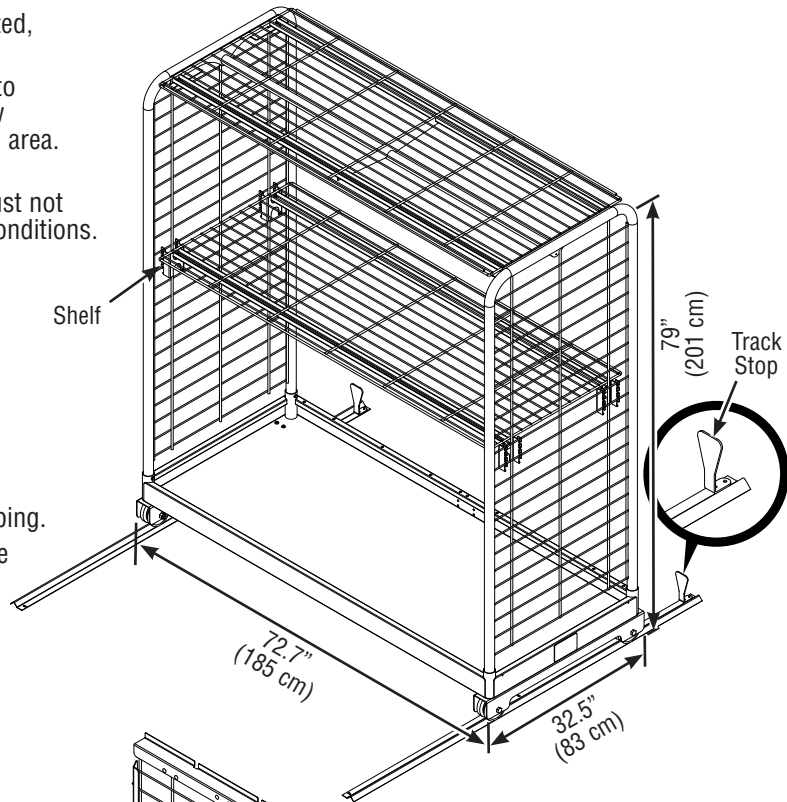
- Dimensions: 32" w x 79" h x 72" d (81 cm x 2 m x 1.8 m).
- Welded chassis made from 16-gauge, 14-gauge and 12-gauge components.
- Upright support tubes constructed from large 2" (5 cm) diameter, 16-gauge steel tubing.
- Resistant-welded heavy-duty steel wire grille end frames with 3" (8 cm) grid spacing.
- Heavy-duty cast iron 6" (15 cm) wheels provide easy movement and keep the units aligned.
- Durable powder-coat paint finish.
Black bases, shelves and garment bars
Silver tubes and grille.
- Top shelf and adjustable shelf load capacity is 150 lbs. (68 kg) each and total cart load capacity is 500 lbs. (227 kg).
- Five-year warranty.

Standard Components

Cart includes a garment bar integrated into the top panel, one adjustable-height shelf and one 6' (1.8 m) floor track.

Accessories

- Additional adjustable shelves.
- Adjustable 12-gauge 1-1/2" diameter steel garment bars finished in black powder-coat paint.
- Side security security grid is constructed of 14-gauge formed metal brackets, 3/16" and 5/16" steel wire grilles and finished with black powder-coat paint.
- Floor lock assembly holds carts together and is locked with a customer-provided lock for added security.
- Track stop.



Side Security Grid with Floor Lock

Athletic Equipment Storage

Application Information

GearBoss® II™ Examples



GearBoss II standard components includes one Integrated Garment Bar and one Adjustable Height Shelf.

Commonly used to store uniforms
(140-150 hung jerseys on garment bar;
pants/shorts folded)



GearBoss II with one Integrated Garment Bar,
one Adjustable Height Shelf and three additional adjustable height
shelves.

Commonly used to store uniforms and helmets
(8-10 helmets on cart floor, four and on cart roof
or nested shoulder pads 8-10 per shelf.
48-60 helmets or shoulder pads or misc folded pants/shorts/pads)



GearBoss II with Integrated Garment Bar and six Helmet Hangers.

Used for storing helmets
(48 helmets hung and 10-12 on roof)



GearBoss II with Integrated Garment Bar and three Shoulder Pad Stackers
and one Free Standing Shoulder Pad Stacker.

(18 - 25 pads per stacker)

Athletic Equipment Storage

Application Information

GearBoss® Shelving

This is the affordable, flexible, durable solution for shelving storage and workspace needs.

It works great for athletic, music and marching band storage; and theatre garment and prop storage.

The cantilever design optimizes overhead space and keeps the floor free from supports for extra room.

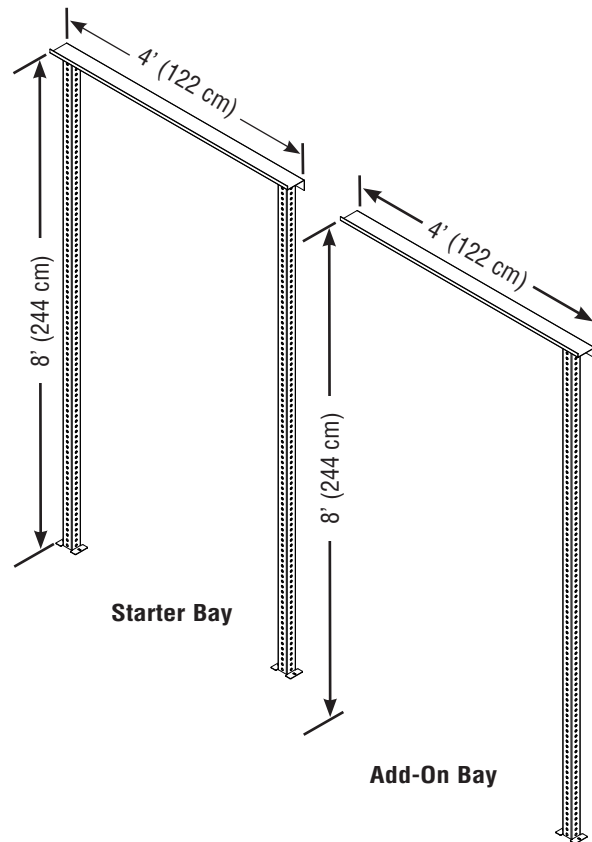
The system is so versatile it can be configured to your specific needs to make sure you get the maximum storage space.

Performance Requirements

- Cantilever design keeps the floor open for carts and flexible use.
- Holes at 1" (2.5 cm) increments provide easy adjustability.
- Shelves are adjustable by hand – no tools required.
- Each bay is load-rated at 1,000 lbs (450 kg) (if installation instructions are strictly followed).
- Spans doors and windows, if necessary.
- Easy to install and relocate.
- Uprights and mounting brackets are zinc-plated to avoid rust.

Construction

- Available in bays 4'w x 8'h (122 x 244 cm). Custom heights are available.
- Shelf supports are 14-gauge 7/8" (2.2 cm) square tube-steel with silver powder-coat paint finish.
- Aluminum shelf fronts feature a 3/8" (1 cm) lip to retain a hardboard insert or work surface option.
- Ten-year warranty.



Athletic Equipment Storage

Application Information

Accessories

Shelves, 30-1/2" and 17-1/2"

- 30-1/2" (77 cm) cantilevered shelf with 4 support tubes spaced 5-1/4" (13 cm).
- 17-1/2" (44 cm) cantilevered shelf with 2 support tubes spaced 5-1/4" (13 cm).
- Shelves can be mounted and adjusted in 1" (3 cm) increments without tools.
- Both shelves fronted with a contoured aluminum extrusion with a 3/8" (9 mm) lip to retain a hardboard insert.
- Each shelf is rated for 250 lbs (113 kg) evenly distributed, not to exceed 1,000 lbs (454 kg) per bay.
- All steel parts have a durable silver powder-coat paint finish.
- Shelf brackets are formed 12-gauge steel.
- Shelf support are 14-gauge 7/8" (22 mm) steel tubes.

Work Surface Panel

- 29-1/4" (74 cm) x 45-3/4" (116 cm) panel lays directly inside a 30-1/2" shelf.
- 1-1/8" (29 mm) graphite polyester laminated partial board with PVC edgebanding - black only.

Drawer

- Mounts to underside of a work surface panel accessory for a 30-1/2" shelf.
- 14-gauge steel construction.
- Durable black powder-coat paint finish.
- Rated for 100 lbs (45 kg) evenly distributed.

Garment Bar/Hanging Bar

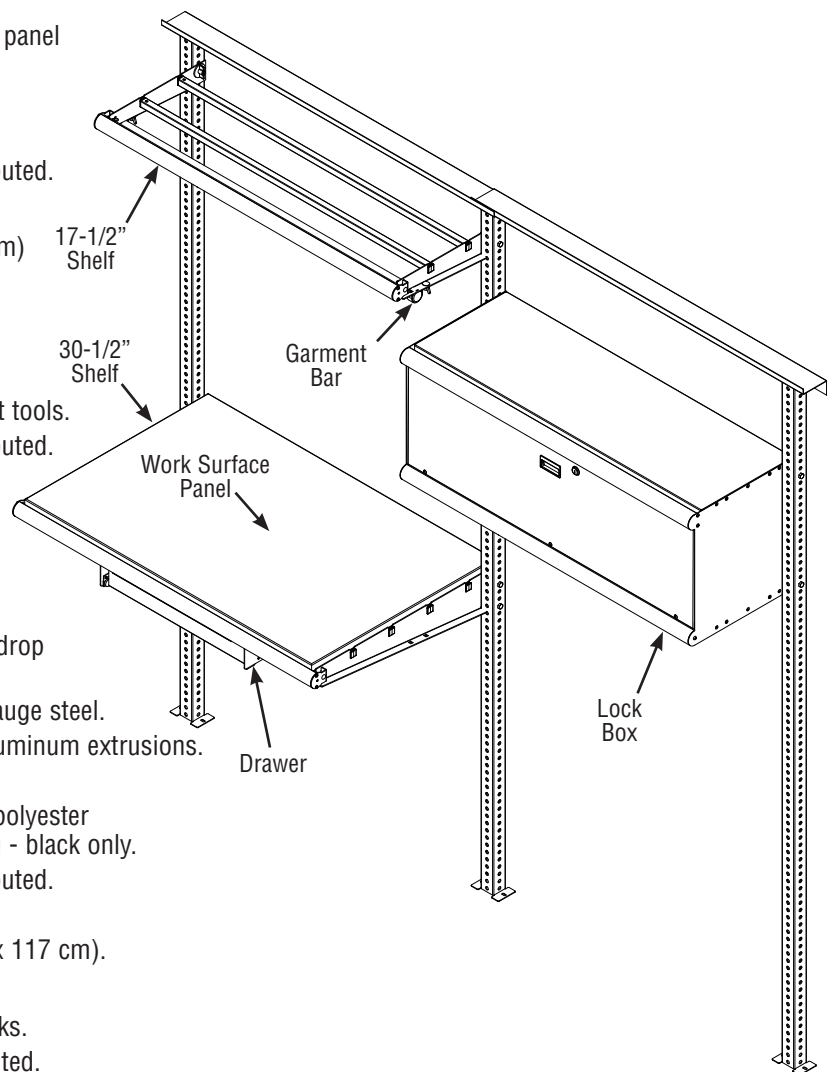
- 48" (122 cm) x 14-gauge x 1-1/2" (4 cm) round steel tube.
- All steel parts have a durable black powder-coat paint finish.
- Durable black powder-coat paint finish.
- Mounts to underside of shelves without tools.
- Rated for 100 lbs (45 kg) evenly distributed.
- Interchangeable companion products:
Football helmet hanger,
Shoulder pad hanger - long,
Shoulder pad hanger - short.

Lock Box

- Door is hinged at the bottom so it can drop and stay open for easy access.
- Sides, top and bottom panels are 16-gauge steel.
- Features upper and lower contoured aluminum extrusions.
- Laminated wood door with keyed lock.
- Door is 5/8" (16 mm) graphite pebble polyester laminated board with PVC edgebanding - black only.
- Rated for 100 lbs (45 kg) evenly distributed.
- Mounted and adjustable without tools.
- Dimensions: 16" x 18" x 46" (41 x 46 x 117 cm).

Peg Board Back

- Mounts directly onto existing shelf banks.
- Rated for 40 lbs (18 kg) evenly distributed.
- The 1/4" thick peg board material is not supplied by Wenger and must be purchased separately.

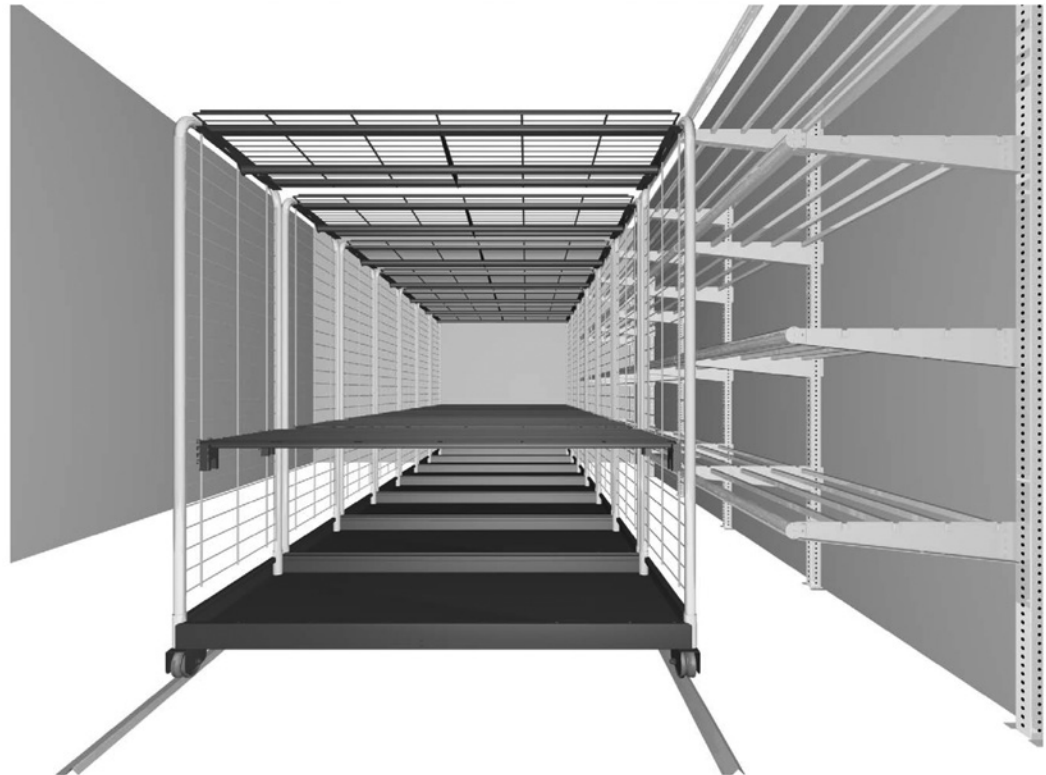
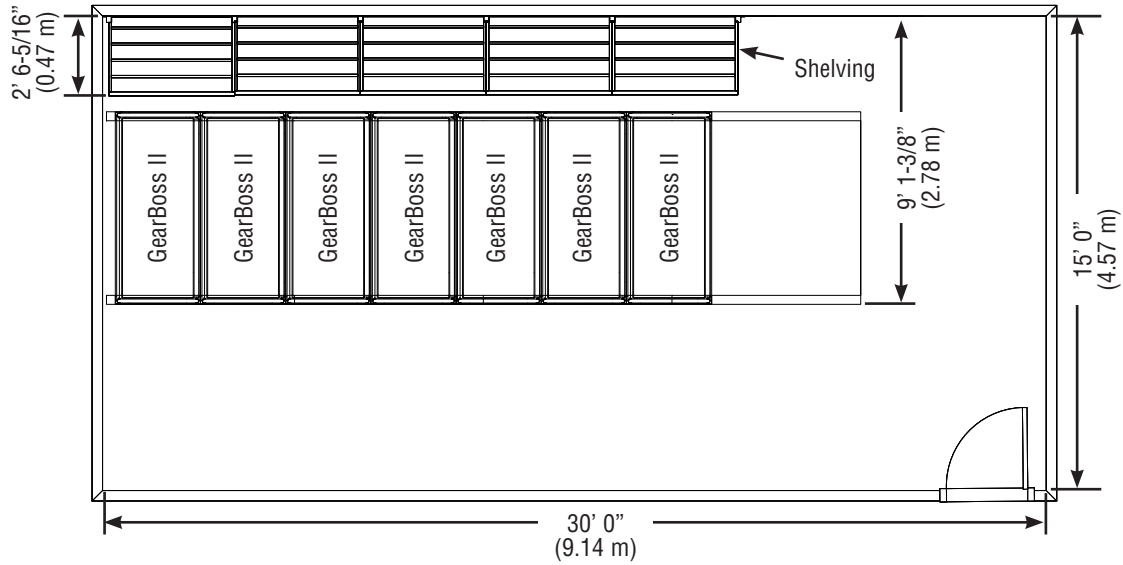


Athletic Equipment Storage

Typical Drawings

GearBoss Sample Layouts

GearBoss Carts and Shelving

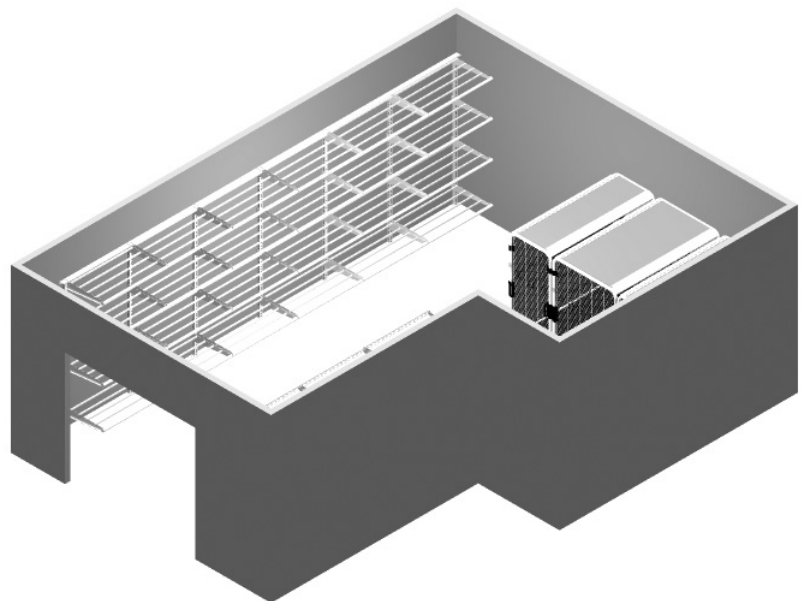
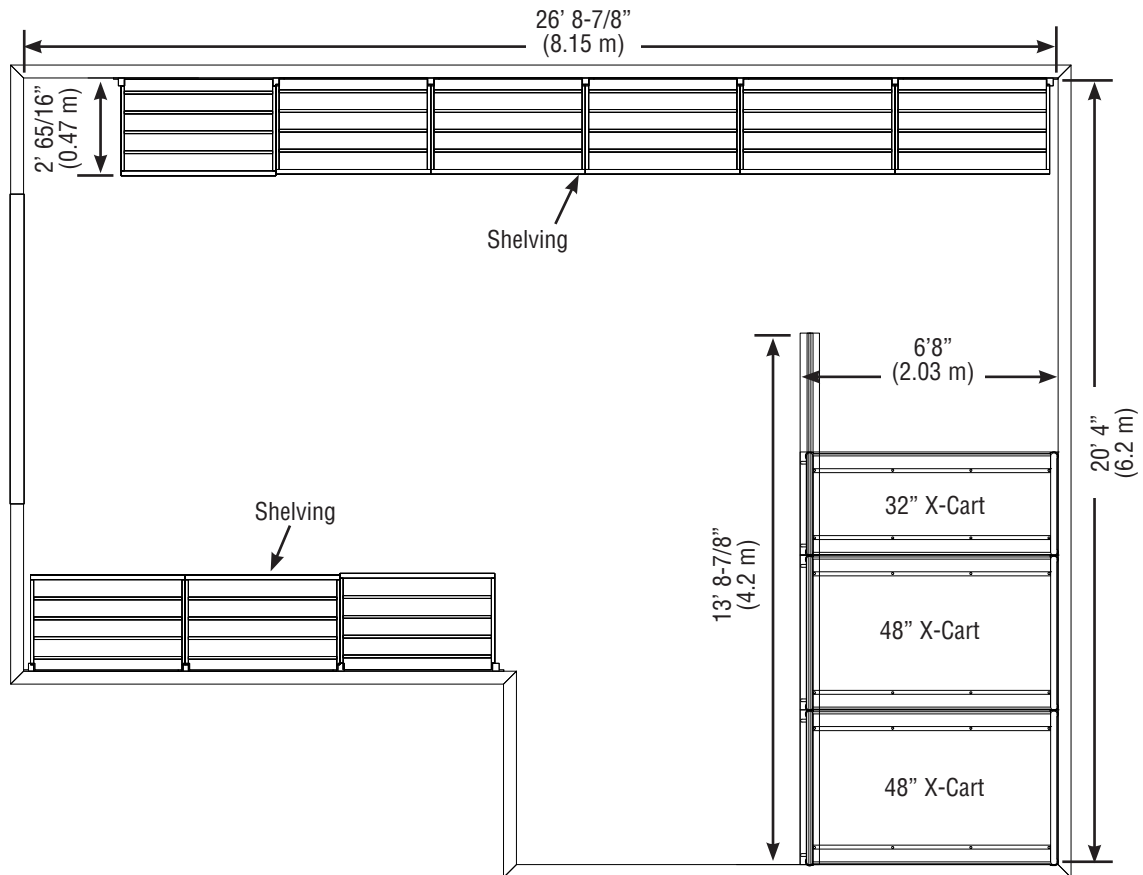


Athletic Equipment Storage

Typical Drawings

GearBoss Sample layouts (continued)

GearBoss Carts and Shelving (continued)

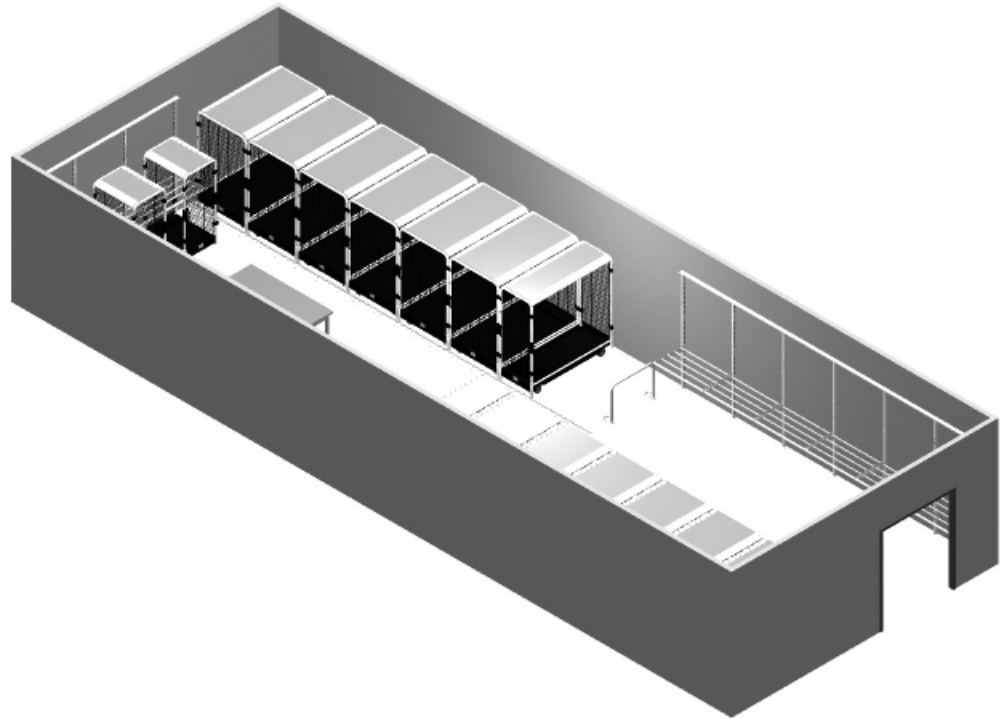
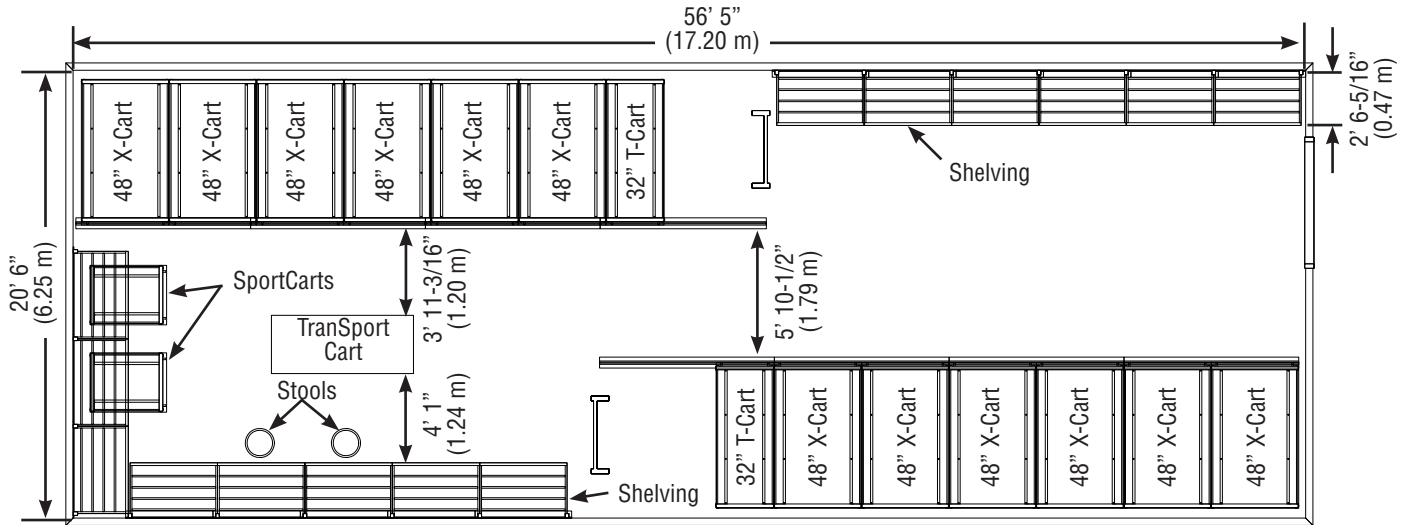


Athletic Equipment Storage

Typical Drawings

GearBoss Sample layouts (continued)

GearBoss Carts and Shelving (continued)



Athletic Equipment Storage

Application Information

Miscellaneous information

Technical Sheets are included for:

- TranSport™ Cart
- Mobile Kiosk
- Workstation

TranSPORT cart

[TECHNICAL SHEET]



GEARBOSS
by Wenger

GearBoss® Athletic Equipment Storage

The GearBOSS TranSPORT cart is another Wenger innovation designed specifically for the needs of athletic programs. The TranSPORT cart makes it easier than ever to move a variety of equipment through your facility and out to the field. And in just a few seconds it is easily transformed into a rock-solid table for use on the sidelines or anywhere in the facility. Practices. Games. Travel. The TranSPORT cart goes everywhere your coaches and trainers go.

Intended Use

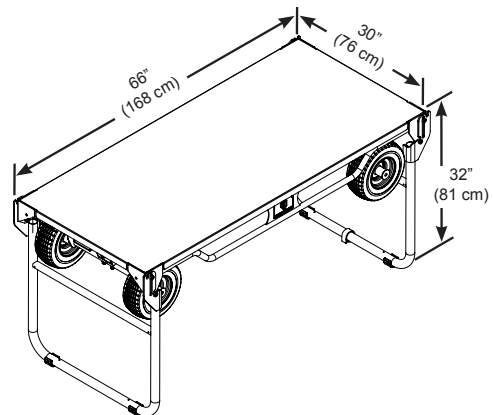
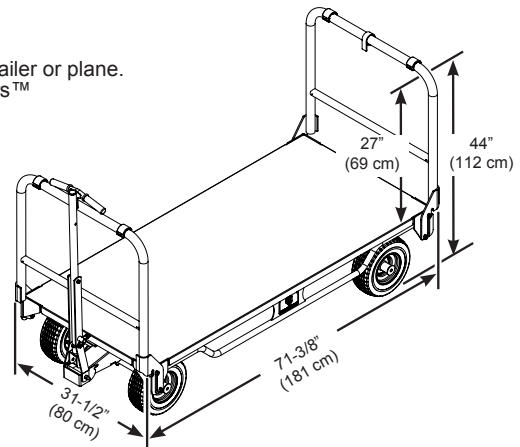
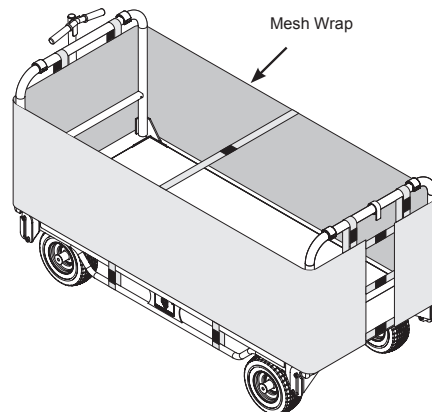
- Transport of gear within facility and outdoors to fields and points of use.
- Converts to table for use as work surface, sideline table or trainer's table.
- End braces fold for compact storage when not in use or when put in truck, trailer or plane.
- Intended for trailering behind slow-moving motorized vehicles such as Gators™ golf carts, lawn tractors, ATV's etc. Not to exceed 10 mph (16 km).

Cart Specifications

- 240A003
- Heavy-duty chassis construction.
- Chassis is 1-1/4" (3 cm) 16-gauge tube steel+1-1/4" (3 cm) square tube cross sections.
- Powdercoat paint and finish.
- Aluminum deck finished in UV and chemical-resistant powdercoat.
- Pneumatic 10" (25.4 cm) wheels, outdoor treads, sealed ball bearings.
- Comfort-grip pull handle transitions to pin-hitch for motorized vehicle, 1-1/4" (3 cm) 14-gauge steel with wing nut and pivot joint.
- Front wheels turn on central, permanently lubricated bearings and king-pin.
- End braces fold flat to deck for storage and rotate under deck to function as table legs.
- Made of 1-1/4" (3 cm) 14-gauge powder-coated steel tube.
- 15-1/2" (39 cm) storage height, 32" (81 cm) table height.
- 30" wide x 66" long (76 x 168 cm) deck. 71-1/2" (182 cm) total length.
- Dynamic maximum load rating 1,000 lbs (454 kg).
- Total cart weight 150 lbs (68 kg).
- Five-year warranty.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.

Accessories

- Heavy-duty mesh cart wrap encloses loaded cart and quickly snaps on and off.



2017-01

Mobile Kiosk

[TECHNICAL SHEET]



GEARBOSS[®]
by Wenger[®]

GearBoss[®] Athletic Equipment Storage

The GearBOSS Mobile Kiosk by Wenger is a self contained, mobile merchandising kiosk that allows you to follow your fans, wherever they go. All of your logo gear is neatly secured inside the enclosed unit while moving from venue to venue. Panels open up in seconds to create your kiosk. Eight removable bins allow different athletic programs, boosters or school clubs to keep inventory in their own bin. Move beyond candy sales and car washes to real revenue generation.

Intended Use

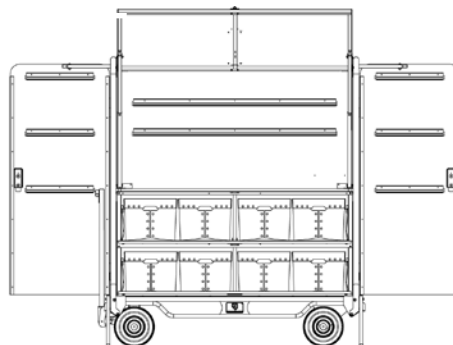
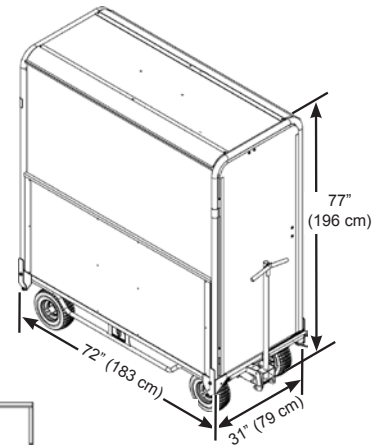
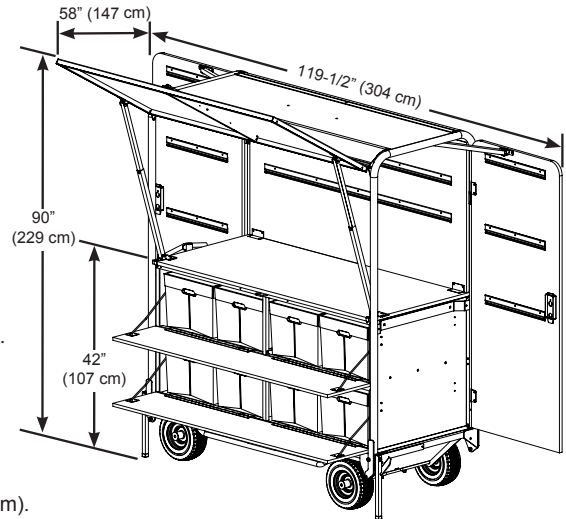
- Organize school spirit items for sale at multiple locations.
- Travels to the gym, field, parking lot, school hall.
- Hand break for easy mobility.
- Move your fund raising efforts to a new level.

Specifications

- 240A007.1
- Heavy-duty chassis construction.
- Chassis is 1-1/4" (3 cm) 16 gauge tube steel with 1 1/4" (3 cm) square tube cross sections.
- Canopy – 0.10 inch thick aluminum attached to 18 gauge tube weldment.
- Side Doors – 3/4" thermofused composite wood core.
- Front Fold-Down Doors – 5/8" thermofused composite wood core.
- 42" (107 cm) counter height.
- Pneumatic 10" (25.4 cm) wheels with outdoor treads and sealed ball bearings.
- Closed dimensions - 72" long x 31" deep x 77" tall (183 x 79 x 196 cm).
- Open dimensions - 119-1/2" long x 58" deep x 90" tall (304 x 147 x 229 cm).
- Bin measurements - 14-3/16" wide x 27-3/4" deep x 11-1/8" tall (36 x 70.5 x 28 cm) (8 bins per cart).
- Display Panel Measurements
 - Side doors - 26-3/8" wide x 61" tall (67 x 155 cm)
 - Back doors - 62-5/8" wide x 31-3/4" tall (159 x 81 cm).
- Slat Wall Starter Kit - 1 basket, 2 waterfalls, 18 hooks
- Slat wall is reinforced with aluminum channels to accept heavier loads and a wide variety of retail display hardware.
- GREENGUARD Indoor Air Quality Certified[®] and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Weight (empty) - 550 lbs. (249.5 kg).
- 800 lbs. (363 kg) maximum load tires.
- Five-year warranty.

Accessories

- Track lights - 2' (61 cm) track with 2 lights.
- Plug Strip - seven outlets.



2017-01

Workstation



GearBoss® Workstation

The equipment room is a hub of activity.

Helmets are assembled and decaled, equipment is inspected and repaired, hundreds of jerseys and garments are folded, lunch is eaten, meetings are held. If you are using folding tables, boxes or the floor to make it happen, it's time to step up to the GearBoss Workstation. Ergonomically perfect at 42" (107 cm) high the Workstation features a tough 1" (2.5 cm) wood laminate surface. The entire Workstation rolls easily on casters keeping your space transitional to ever-changing activities.

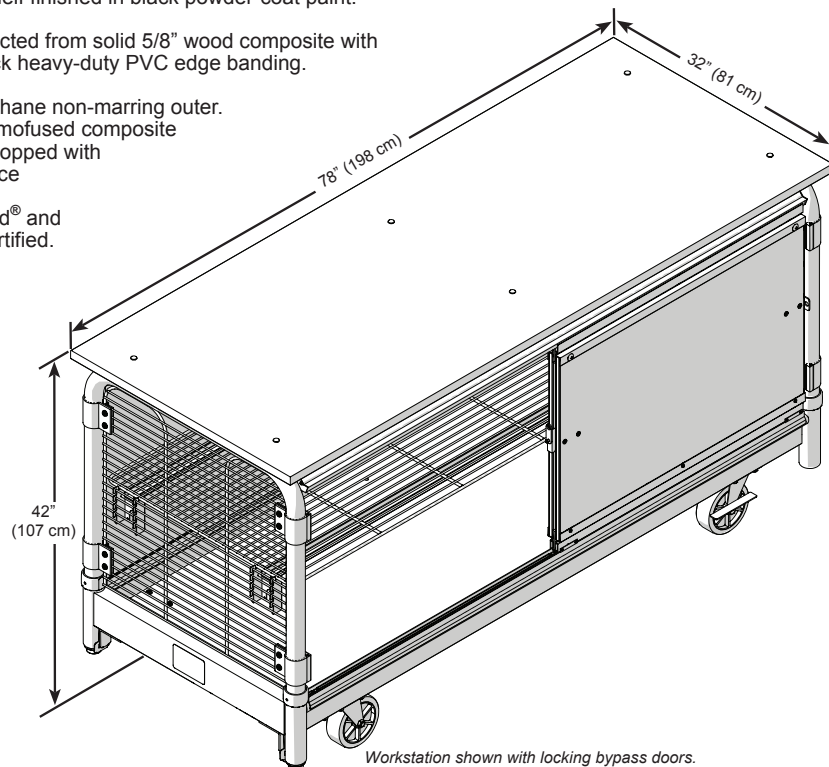
Built like a GearBoss Storage Cart, you can add optional, adjustable grille shelves and locking bypass doors.

Intended Use

- The GearBoss Workstation is intended for indoor use in normal ambient temperature and humidity conditions - components must not be exposed to prolong outside weather conditions.
- The heavy-duty commercial-grade swivel casters are intended for easy moving on hard surfaces such as concrete, gym floors, tile and low pile unpadding carpet
- Roller guides follow the track and can be recessed into clip holder when the cart is being used for transport.

Specifications

- 241A050 Includes one bypass door set and one side closure 384 lbs (174 kg)
- 241A052 Includes two bypass door sets 388 lbs (176 kg)
- 241A053 No doors included 314 lbs (142 kg).
- 32" wide x 78" long x 42" high (81 x 198 x 107 cm).
- Welded chassis made from 16-gauge, 14-gauge and 12-gauge components.
- Upright support tubes constructed from large 2" (5 cm) diameter, 16-gauge steel tubing.
- Resistant welded heavy-duty steel wire grill end frames with 1" (2.5 cm) grid openings.
- Durable powder-coat paint finishes.
- Includes one adjustable steel wire grille shelf finished in black powder-coat paint. Additional shelves are available.
- Optional locking bypass doors are constructed from solid 5/8" wood composite with graphite polyester laminate finish and black heavy-duty PVC edge banding. Padlock is not supplied.
- Heavy-duty 6" swivel casters with polyurethane non-marring outer.
- Top panel constructed from solid 5/8" thermofused composite wood core with aluminum extrusions and topped with a 1" (2.5 cm) graphite laminate work surface rated for a 150 lbs. (68 kg) load.
- GREENGUARD Indoor Air Quality Certified® and GREENGUARD Children & SchoolsSM Certified.
- Environmental attributes and LEED compliance for this product can be found at www.wengercorp.com/GREEN or by contacting your Wenger representative.
- Shipped fully assembled.
- Five-year warranty.



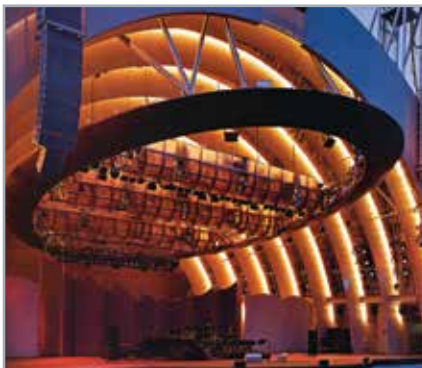
2017-01

STAGE RIGGING



J.R. Clancy is now part of the Wenger family. Together we are optimally positioned to serve all your theatre needs.

Wenger Corporation is proud to announce the recent acquisition of JR Clancy, Syracuse NY. JR Clancy has been designing and manufacturing rigging and theatrical equipment since 1885. They provide everything from simple stage hardware to highly sophisticated power rigging systems for theaters, concert halls, arenas, churches, casino showrooms, opera houses, and even cruise ships. The collaboration between Wenger and JR Clancy allows us to meet all of your worldwide needs for audience seating, acoustical shells, pit-fillers, stage rigging, curtains, and much, much more... basic to fully custom. For more information about Complete Rigging Solutions, visit www.jrclancy.com or email at info@jrclancy.com.



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GEARBOSS

Phone 800.493.6437 | email gearboss@wengercorp.com | Web gearboss.com | 555 Park Drive, PO Box 448 | Owatonna | MN 55060-0448

JR CLANCY

Phone 800-836-1885 Worldwide 1.315.451.3440 | Fax 877.836.1885 Worldwide 1.315.451.1766 | Web jrclancy.com
7041 Interstate Island Road | Syracuse | NY 13209-9713

Miscellaneous information

Technical Sheets are included for:

Automated Rigging

- Performer Series Aerial Performance Hoist System
- VARION Versatility Hoist
- PowerLift
- PowerLine
- PowerAssist
- Custom Hoists

Control Systems

- SceneControl 5100 Rigging Control System
- SceneControl 5200 Rigging Control System
- SceneControl 5300 Rigging Control System
- SceneControl 5500 Rigging Control System
- SceneControl 5600 Rigging Control System
- Push Button Controls

Fire Safety Curtains

- Curtain Guides
- Fire Curtain Arbor Release
- Fire Curtain Line Shaft Hoist
- Fire Curtains
- Fire Line Release and Enclosure
- Fusible Links
- Hydraulic Dashpots
- Motorized Fire Curtain Hoist
- Round Weight Arbor Components
- Smoke Pockets
- Smoke Seal
- SureGuard II
- Swivel Eye Pulley
- Traction Drive Hoist
- Zetex Borders

Manual Rigging

Arbors & Counterweights

- Counterweights
- J-Guide/T-Bar Double Purchase Arbors
- J-Guide/T-Bar Single Purchase Arbors
- Lattice Track Arbors
- Wire Guide Arbors

Blocks

- Adjustable Combination Floor Blocks
- Custom Blocks
- Fixed Combination Floor Blocks
- Head Block - 59 Series
- Head Block - 55 Series
- Light Duty Blocks
- Loft Block Idlers
- Loft Block Pivot Brackets
- Loft Block-Underhung 19 Series

Blocks (continued)

- Mule Block and Swivel Stands
- Mule Blocks - 12 Series, 12" Blocks
- Mule Blocks - 12 Series, 8" Blocks
- Multi-Sheave Blocks
- Sliding Tension Floor Blocks
- Tension Floor Blocks
- Universal Loft Blocks 55/56/59 Series
- Wire Guide Floor Blocks

Guide Systems

- A-Guide System
- Index Lights
- J-Guide Systems
- Lattice Track
- Outrigger Bracket
- T-Bar Guide Systems

Locking Rails

- Locking Rails - Gallery Mounted
- Locking Rails - J-Guide and T-Bar
- Locking Rails - Wire Guide

Rigging Accessories

- AlphaChain and Trim Chains
- Batten Trim Clamp
- Battens
- Beam Clamps
- Cable Clips
- Cable Cradle
- Cable Pantographs and Connector Strips
- Capstan Hoist
- Chain and Trim Chain - Grade 30
- Cross Grid Connector
- Curtain Tracks - Steel Channel
- Floor Plate
- Galvanized Utility Cables
- Guided Cable Crew
- Multiline II Synthetic Rope
- Nicopress Fittings
- Pin Rail and Accessories
- Pipe Clamps
- Shackles
- Stage-Set X Synthetic Rope
- SureGrip Synthetic Rope
- SureTrack Motorized Curtain Track System
- Thimbles
- Turnbuckles

Rope Locks

- Rope Locks
- SureLock

TECHNICAL SHEET



Performer™ Series Aerial Performance Hoist System

The Performer™ hoist is built for portability, or to be moved at the discretion of the director. Its servo motor drive delivers high dynamic capabilities in a small package. Our limit switches can be set without the use of tools, making your setup smooth and efficient. The durable construction and finish can handle the demands of life on the road.

- 600 lbs (272 kg) dynamic working load
- Speed to 480 ft/min (0–2.4 m/s)
- 100' (30.5 m) drum capacity
- 1/4" (6.3 mm) rope diameter

Applications

Venues running shows with aerial performers.

Features

- Moving drum for constant fleet angle
- Capable of dual rope terminations for closed loop operations
- Digital load measurement
- End of travel switches adjust without tools
- Integral servo drive cabinet
- Cable pinch roller
- Rope can Reeve from top or bottom of hoist

Safety

- Dynamic load measurement and fault response
- Constant comparison between redundant encoders
- Crossed groove detectors
- Redundant brakes
- Redundant encoders

Controls

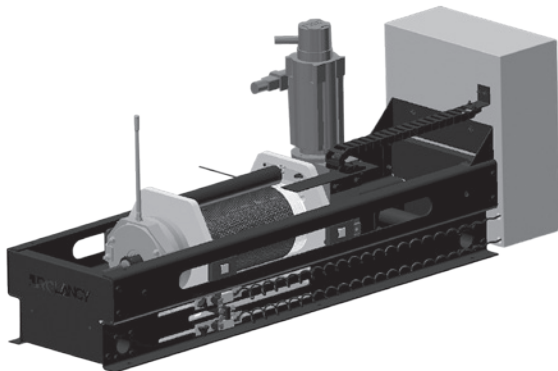
Performer™ Series hoist works with J.R. Clancy's SceneControl® 5600 and SceneControl® 5500 consoles.

Mounting

It can be mounted upright or underhung.

Power and Wiring Information

Available for virtually any 3-phase voltage and frequency. AC servo drive cabinet integral on hoist frame and factory prewired.



Continued on the following page.

Stage Rigging - Automated Rigging

Dimensions

- 72.5" w x 20.6" d x 31.6" h (1841.5 mm x 523.2 mm x 802.6 mm)

Warranty and Support

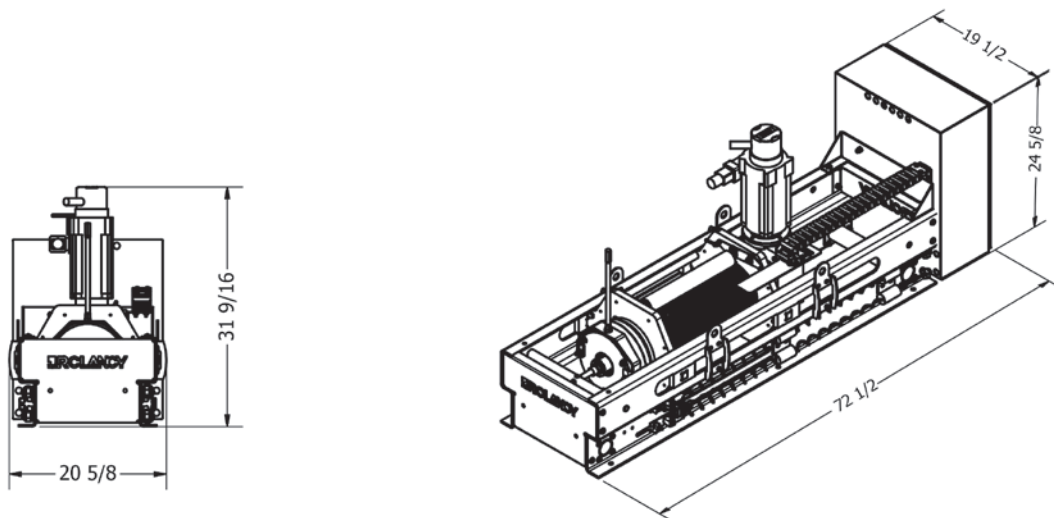
Three-Year Warranty against defects in materials or workmanship is provided on all J.R. Clancy equipment. Our warranty is contingent on operation by trained personnel and an annual equipment inspection of a J.R. Clancy authorized technician.

24/7 factory technical support with additional service and assistance provided by a worldwide network of J.R. Clancy authorized dealers.

Inspection and maintenance are available through J.R. Clancy's T.I.M.[®] (Train, Inspect, Maintain) Program. For more information call 1-800-836-1885 or email service@jrclancy.com.

Additional Information

Additional information on J.R. Clancy hoists is available at www.jrclancy.com.



Order Information:

Number	Description
018-1855A	Performer™ Aerial Hoist 600 lbs, 480 fpm
018-1855B	Performer™ Aerial Hoist 330 lbs, 680 fpm



Design, Manufacture and Installation of Theatrical Equipment Worldwide

For unusual applications, J.R. Clancy can create custom equipment to match your facility's specific needs. Please contact us to discuss your project's requirements.

2017-01

TECHNICAL SHEET



VARION™ Versatility Hoist

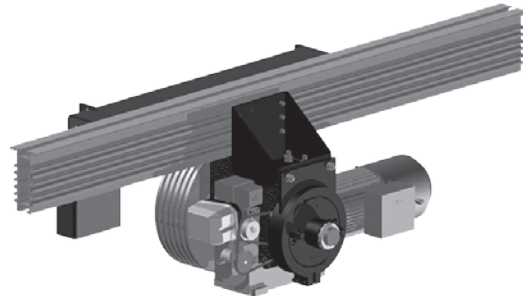
You told us what you needed, and we listened: With batten lengths up to 45' (13.7 m) and as much as 50' (15.2 m) of travel, the Varion™ hoist delivers a gross lifting capacity of 1,500 lbs (680 kg). Five lift lines feature steel guides, so there's no danger of cables crossing the groove. The hoist can be supported from the top of the beam or underhung – whatever works best for your needs in your theatre. Equally important, this affordable hoist gives you the flexibility you need at a price point your budget can handle.

Applications

Front of House and Stage.

Features

- Travel: Up to 50' (15.2 m)
- Batten length: Up to 45' (13.7 m)
- Speed: 15 fpm
- Live load: 1,350 lbs (612 kg) without plug-in strip,
1,000 lbs (454 kg) with plug-in strip
- Lift lines: 5, Adjustable on back bone
- Wire rope diameter: 3/16"



Options include

- Encoder
- Cable management: flat fold
- Light circuits: Up to 36 (configuration dependent)
- Cable management system
- Data available for DMX or Ethernet protocol

Safety

- Hoist overload detection
- Overspeed brake
- Robust back bone to eliminate horizontal forces on the building.

Controls

The Varion™ hoist works with J.R. Clancy's SceneControl® Series consoles.

Mounting

It can be underhung or sit on top of grid.

Motor Information

Volts	Phase	Hz	Amperage
208V	3-phase	60 Hz	4.9 FLA*
460V	3-phase	60 Hz	2.2 FLA*
380-415V	3-phase	50/60 Hz	2.53 FLA*

*FLA = Full Load Amperage

Dimensions

- 46.25" w x 20.5" d x 21" h (1174.75 mm x 520.7 mm x 533.4 mm)

Weight

- Less than 500 lbs. (less than 226.8 kg)

Warranty and Support

Three-Year Warranty against defects in materials or workmanship is provided on all J.R. Clancy equipment. Our warranty is contingent on operation by trained personnel and an annual equipment inspection of a J.R. Clancy authorized technician.

24/7 factory technical support with additional service and assistance provided by a worldwide network of J.R. Clancy authorized dealers.

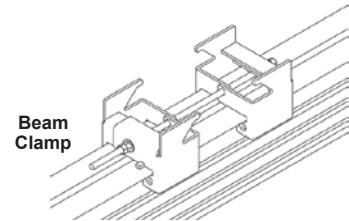
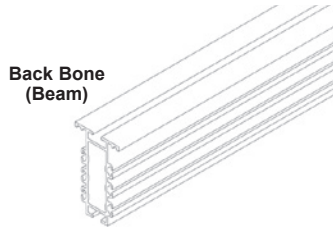
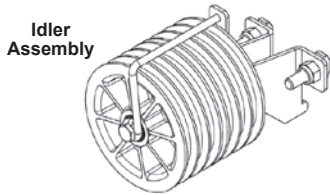
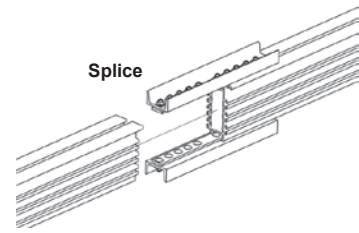
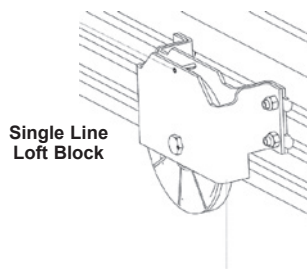
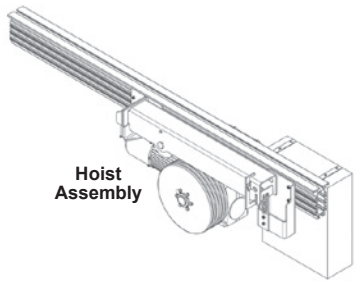
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Additional Information

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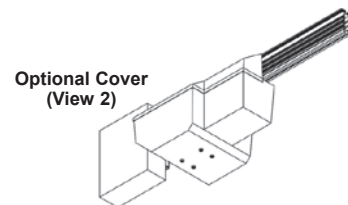
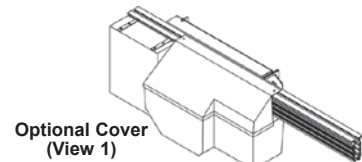
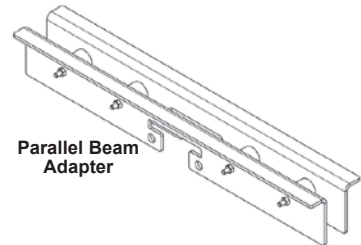
Continued on the following page.

Stage Rigging - Automated Rigging



Order Information

Number	Description
018-1718	VARION™ Versatility Hoist 1,500 lb., 15 fpm
Varion Hoist Motor Assembly Configurations	
018-1718-2-FE	VARION™ Hoist 208V, Beam mounted SceneControl® starter with encoder
018-1718-2-J	VARION™ Hoist 208V, Beam mounted junction box
018-1718-2-JE	VARION™ Hoist 208V, Beam mounted junction box with encoder
018-1718-2-P	VARION™ Hoist 208V, Beam mounted pushbutton starter
018-1718-4-FE	VARION™ Hoist 480V, Beam mounted SceneControl® starter with encoder
018-1718-4-J	VARION™ Hoist 480V, Beam mounted junction box
018-1718-4-JE	VARION™ Hoist 480V, Beam mounted junction box with encoder
018-1718-4-P	VARION™ Hoist 480V, Beam mounted pushbutton starter
Varion Hoist Accessories	
088-1766	Back bone (Beam) 20' Section
118-1729	Idler Assembly
118-1732	Single Line Loft Block
118-1762	Beam Clamp
118-1790	Splice
118-1795	Parallel Beam Adapter



Design, Manufacture and Installation of Theatrical Equipment Worldwide

For unusual applications, J.R. Clancy can create custom equipment to match your facility's specific needs. Please contact us to discuss your project's requirements.

2017-01

TECHNICAL SHEET



PowerLift® Automated Rigging

PowerLift® is an economical, high performance, automated hoisting system available in fixed or variable speeds. It's versatile mounting system enables PowerLift to be installed in virtually any space.

- Speed: Up to 180 fpm (0.9 m/s)
- Travel: Up to 62 ft. (19 m)
- Gross Capacity: Up to 2,000 lbs. (907 kg)

Applications

PowerLift's high capacity and compact size make it ideal for many stage hoisting applications including:

- Lighting
- Scenery
- Shell ceilings

Features

- Integrated gearmotor and brake provides proven reliability and features an iron case for vibration and noise control.
- Reliable head block with nylon sheaves provides long, trouble-free life and meets or exceeds wire rope manufacturer recommendations.
- Closed loop vector drives provide pinpoint accuracy and can hold the load without a brake for added security.
- Hoists can be mounted vertically or horizontally. For theatres without grids, vertical mounting can save space and offers easier access for maintenance.
- Versatile mounting clips encompass a tremendous range of beam spacing and flange widths for easy installation.
- Compact moving drum allows for a small, efficient hoist. Preloaded chase rollers ensure cables stay in grooves.
- Sturdy aluminum backbone eliminates external strengthening members.
- Center to center spacing 12" (30.5 cm) side by side, 8" (20 cm) offset.
- Dual brake.
- Dual encoder.

Safety

- Designed and manufactured by J.R. Clancy, a company with almost 130 years of rigging expertise.
- Dual braking system with a primary brake on the motor and a completely independent SureBrake® II operating directly on the drum shaft. SureBrake II is spring applied and electrically released for maximum safety.
- Emergency-stop system meets NFPA 79 (Electrical Standard for Industrial Machinery) with ramped stops for high speed equipment to reduce mechanical shock loads.
- Two levels of limit switches with normal travel and overtravel switches using separate, redundant circuits for added security.
- Loft block idlers contain individual grooves to keep lines contained, prevent tangles, and eliminate rubbing of adjacent lines.
- Tough safe interior of all electrical enclosures guards to prevent contact with live components, per IEC 204-1 Protection.

Controls

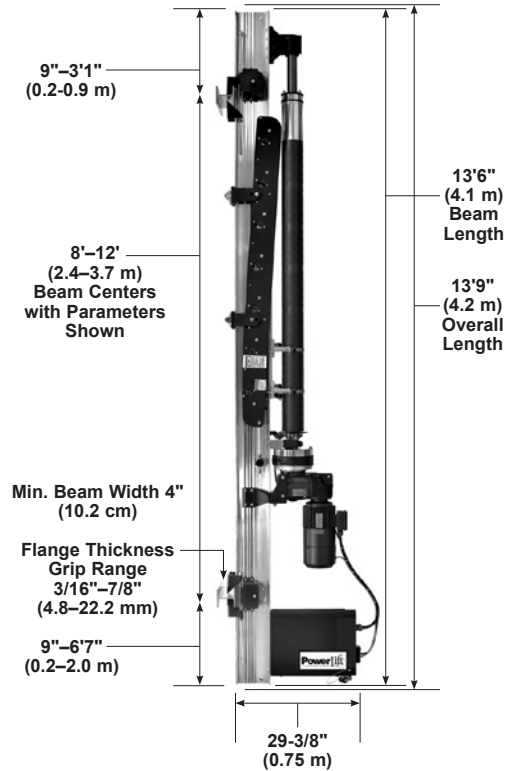
PowerLift works with the entire range of J.R. Clancy automation consoles or push button controls. It is designed to work with J.R. Clancy's SceneControl® family of consoles.

PowerLift Options

Part Number	Load Speed	Gross Capacity	Hoist Weight
018-P0220G	20 fpm (0.1 m/s)	2,000 lbs. (907 kg)	750 lbs. (340 kg)
018-P0220R	0–20 fpm (0–0.1 m/s)	2,000 lbs. (907 kg)	750 lbs. (340 kg)
018-P1212R	0–120 fpm (0–0.6 m/s)	1,200 lbs. (544 kg)	770 lbs. (349 kg)
018-P1220R	0–120 fpm (0–0.6 m/s)	2,000 lbs. (907 kg)	800 lbs. (362 kg)
018-P1812R	0–180 fpm (0–0.9 m/s)	1,200 lbs. (544 kg)	800 lbs. (362 kg)
018-P1817R	0–180 fpm (0–0.9 m/s)	1,750 lbs. (793 kg)	850 lbs. (385 kg)

- Load Sensing
- 7 Lines 62' (19 m) of travel, 8 Lines 49' (15 m) of travel
- 208V or 480V three phase motor. Other voltages available
- Covers to keep moving parts shielded for safety
- Cable management for electric and other powered sets

Dimensions



Loft Block Options

- Universal Series upright or underhung
- 19 Series underhung

Batten Termination Options

- Trim Chain
- Pipe Clamp and Turnbuckle
- Batten Trim Plate
- Batten Trim Clamp

Batten Options

- 1.5" Schedule 40 batten
- 1.5" Schedule 80 batten
- 1.5" Schedule 40 truss batten

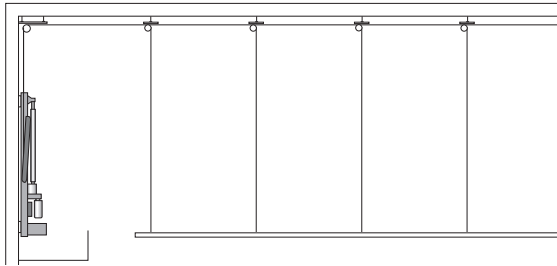


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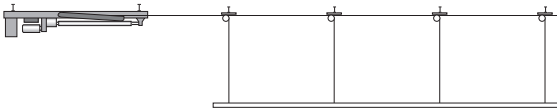
Stage Rigging - Automated Rigging

Mounting Configurations

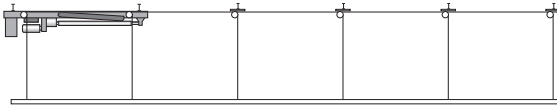
Vertical (Preferred mounting approach)



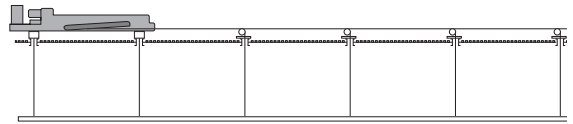
Underhung Offstage



Underhung Onstage



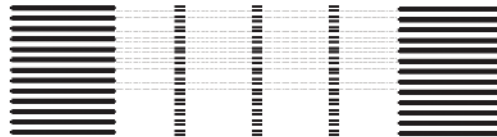
Upright on Grid (Cover required)



11" (27.94 cm) Set Centers: All hoists on one side of stage



8" (20.32 cm) Set Centers: Alternate hoists on both sides of stage



Loading Information

Loft Block: (Typical of 7) The combined load on the loft blocks associated with a single PowerLift hoist will not exceed the hoist capacity. Loads may be unevenly distributed on the batten with a maximum load of 500 lbs. (227 kg) on any individual loft block. Hoists are not recommended to be used for lifting people.

Power and Wiring Information: PowerLift is available for virtually any 3-phase voltage worldwide. Control wiring is dependent on your control system.

Warranty and Support

Three-Year Warranty against defects in materials or workmanship is provided on all J.R. Clancy equipment. Our warranty is contingent on operation by trained personnel and an annual equipment inspection of a J.R. Clancy authorized technician.

24/7 factory technical support with additional service and assistance provided by a worldwide network of J.R. Clancy authorized dealers.

Inspection and maintenance are available through J.R. Clancy's T.I.M.® (Train, Inspect, Maintain) Program.

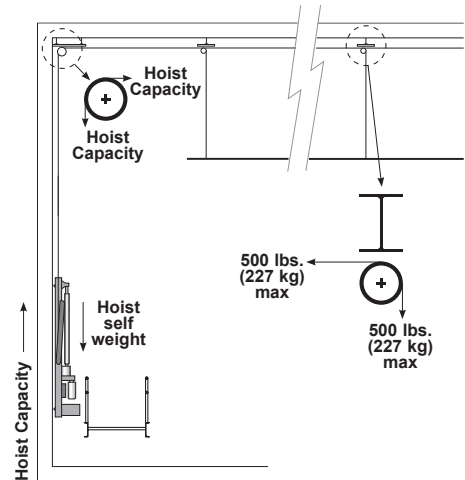
Additional Information

For more information on PowerLift, visit www.jrclancy.com/powerlift.asp to access:

- Detailed structural loading
- Electrical risers diagrams
- Specifications
- Dead load weight calculator

Ordering Information

PowerLifts are available with up to 7 lift lines and provide up to 62 ft. (19 m) of travel.



Design, Manufacture and Installation of Theatrical Equipment Worldwide

For unusual applications, J.R. Clancy can create custom equipment to match your facility's specific needs. Please contact us to discuss your project's requirements.

2017-01

TECHNICAL SHEET



PowerLine™ Versatile Line Shaft Hoist

General Information

The PowerLine™ is a new generation of line shaft hoist, re-engineered to reduce size, weight, and cost. PowerLine hoists offer a wide range of speeds and capacities, making them versatile performers. These hoists virtually eliminate side loading on the building structure caused by the rigging and can be excellent choices for retrofits in older buildings.

- Speed: Up to 240 fpm (1.2 m/s)
- Travel: 60 ft. (18.3 m)
- Gross Cap.: Up to 2500 lbs. (1,135 kg)

Applications

PowerLine's compact size makes it ideal for smaller spaces and renovations. Among it's many uses are:

- Electric sets
- Scenery and curtains
- Front-of-house lighting sets

Features

- PowerLine is customizable to your unique hoisting needs.
- Fixed or variable speed options to meet your performance needs.
- Compact unit doesn't require wall or wing space and can be mounted upright or underhung on 10" (25.4 cm) spacing.
- Simple construction places only vertical loads on the supporting structure without lateral loads.
- Easy to install backbone can be continuous/discontinuous to meet your site conditions.
- Universal joints in the drive shaft promote long life and reliability by allowing various building steel configurations.
- Compact drum fits over standard 10" (25.4 cm) grid well.
- Helical/worm or helical/bevel gear boxes can be oriented four ways for simple installation in any space.
- Flexible installation — standard hoists can be mounted from beams with flanges from 4 - 11" (10.2 - 27.9 cm) wide and from 1/4 - 1" (0.63 - 2.54 cm) thick. Custom mounting hardware can be provided if needed.
- 6 or 8" (15.24 or 20.32 cm) welded steel drums offer a wide range of speeds and capacity options to meet your performance requirements.
- Versatile mounting clamps attach to steel that is parallel or perpendicular to the hoist for fast, easy installation without welding.
- High-efficiency green motors meet IEC 60034-30 Efficiency Classes standard.

Safety

- Designed and manufactured by Clancy, a company with rigging expertise since 1885.
- "Fail-safe" motor brakes are spring applied and electrically released.
- Emergency-stop system meets NFPA 79 (Electrical Standard for Industrial Machinery) with ramped stops for high speed equipment to reduce mechanical shock loads.
- Two levels of limit switches with normal travel and overtravel switches using separate, redundant circuits for added security.
- Hold-to-run controls require an operator to be present when movement is taking place in conformance with NFPA 79.
- Touch safe interior of all electrical enclosures guards to prevent contact with live components, per IEC 204-1 Protection.



Continued on the following page.

Stage Rigging - Automated Rigging

Controls

PowerLine works with the entire range of Clancy automation consoles or push button controls. It can also interface with any modern control system.

Dimensions

PowerLines are built to meet your requirements so dimensions will vary. Contact us for more details.

Loading Information

You receive specific loading information with each PowerLine.

Power & Wiring Information

PowerLine requires 3-phase power at 208, 230, or 460 VAC 60 hz. Additional voltages are also possible. Please contact us with your requirements. Control wiring is dependent on your control system. More information is available at www.jrclancy.com/controlsystems.asp.

Warranty & System Support

Three-Year Warranty against defects in materials or workmanship is provided on all Clancy equipment. Our warranty is contingent on operation by trained personnel and an annual equipment inspection by a Clancy authorized technician.

24/7 factory technical support with additional service and assistance provided by a worldwide network of Clancy authorized dealers. Inspections and maintenance can be provided through our authorized dealers. A maintenance gallery or other means of access is required.

Ordering Information

PowerLine is available in several standard configurations or can be customized to your needs. Contact Clancy to discuss optimal configurations or custom solutions.

Standard Configurations

Base configuration has gear motor with integral brake on one end and centrifugal load brake on other end. Other configurations include:

Fixed Speed: 20 fpm / 1000 lbs. (0.1 m/s / 454 kg)
20 fpm / 1250 lbs. (0.1 m/s / 567 kg)
20 fpm / 1600 lbs. (0.1 m/s / 726 kg)
20 fpm / 2150 lbs. (0.15 m/s / 975 kg)
20 fpm / 2500 lbs. (0.1 m/s / 1184 kg)

Variable Speed: 0 - 110 fpm / 1300 lbs. (0 - 0.56 m/s / 590 kg)
0 - 140 fpm / 1950 lbs. (0 - 0.71 m/s / 885 kg)
0 - 240 fpm / 2300 lbs. (0 - 1.2 m/s / 1043 kg)

Lift Line: 1/4" (6.35 mm) 3/16" (4.8 mm)
Drum Dia.: 7-1/2" (190 mm) 5-1/2" (140 mm)
Max Load/Line: 750 lb. (341 kg) 500 lb. (227 kg)

Additional Configurations

- One motor and centrifugal brake each end
- Two motors, one at each end of the hoist
- SureBrake™ electric brake

Options

- Cross groove and slack line detectors
- Load cells
- Position encoder
- Additional limit switches



2017-01

TECHNICAL SHEET



PowerAssist[®] Counterweight Automation System

A compact fixed speed hoist that automates a new or existing counterweight rigging set. The hoist and counterweight work together, allowing the set to carry any load from none to the rated capacity without the need to adjust counterweights.

Applications

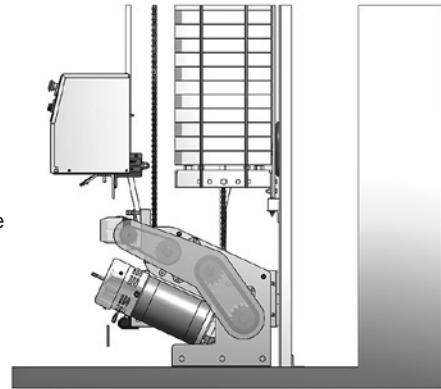
Most theatres in North America use manually operated counterweighted rigging sets. These use an arbor to hold weights that balance the load (lighting equipment, curtains, scenery, etc.) on the batten. In order to operate safely, the load and the counterweight must be equal.

In order to keep the set in balance, the counterweight must be adjusted every time the load changes. This may be frequent, and generally requires adjusting the counterweight from an elevated loading gallery. Failure to keep the sets in balance may result in “runaways” or accidents.

The PowerAssist hoist, working with the counterweight arbor, carries the out-of-balance load. This is particularly helpful on high capacity sets with changing loads, such as lighting sets, removable orchestra shell ceilings, and scenery battens. Use of the PowerAssist eliminates the need for staff and students to balance sets, climb to the loading gallery, and reduces risk backstage.

Units are available for use with both single and double purchase sets. When used with double purchase sets the arbor and head block must be replaced to accommodate the drive chain.

PowerAssist hoists may be located on the stage floor or in an arbor pit.



Features

Quality Management – Clancy’s ISO 9001 certified quality management system ensures consistency and excellence in engineering, manufacturing, project management, sales, and customer service.

Technical Support is available 24/7/365 from the factory. Additional support is provided by a worldwide group of established J.R. Clancy dealers.

Safety

No Handling of Counterweights or climbing to elevated loading galleries to keep sets in balance. The PowerAssist hoist handles the out-of-balance load for you.

Two Levels of Limit Switches are set for your specific site conditions. The normal travel and over travel switches use separate, redundant circuits for added security.

E-Stop System meets NFPA 79 “Electrical Standard for Industrial Machinery”.

Deadman Controls (“hold to run”) in conformance with NFPA 79 “Electrical Standard for Industrial Machinery,” ensure the operator is present when movement is taking place.

Maintenance Light – Regular service is necessary for safety and equipment life for all moving machinery. J.R. Clancy control systems have a maintenance light, indicating when regular system service is required.

208, 230, or 460 volts units are available without the need for expensive, bulky transformers. 380V 50Hz units are also available.

Motors Rated to Lift the Load have a 1.0 service factor, so they can lift the load every time – not just some of the time.

Touch Safe means the interior of all electrical enclosures are guarded to prevent touching live components, per IEC standard.

Control Options

Push Button Controls

Hold to run Up and Down pushbuttons are provided so that sets can be run by “eye”. A key operated On / Off switch and an Emergency Stop button are provided for security.

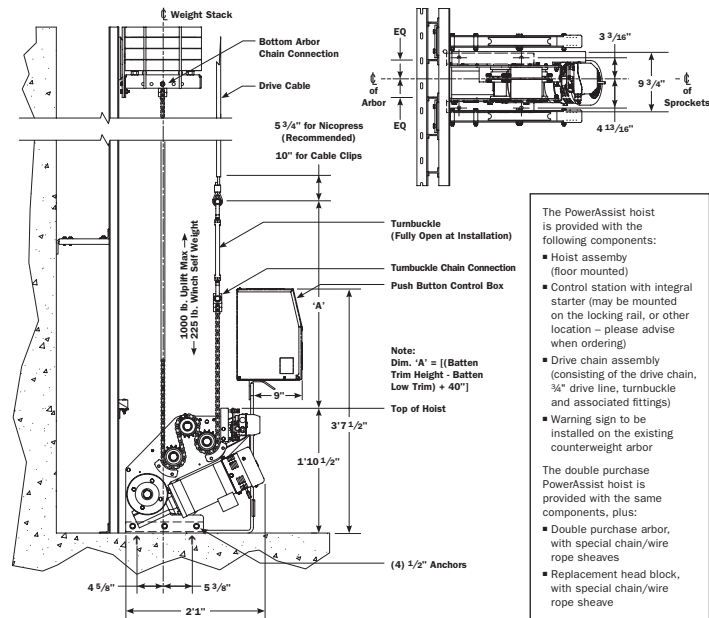
SceneControl™

J.R. Clancy offers a range of control systems to meet your production requirements and budgets. Consoles allow control of multiple hoists, including the ability to create cues that control several sets simultaneously. Contact us for more information.

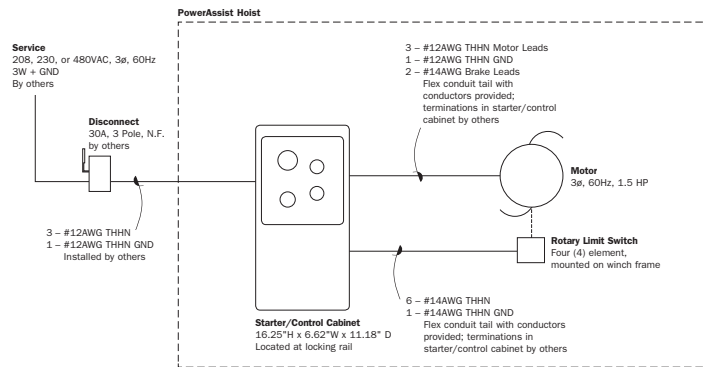
Continued on the following page.

Stage Rigging - Automated Rigging

Dimensions



PowerAssist with Push Button Control One Line Riser — Typical



Order Information

Model	Control	Type	Speed	Capacity	HP	Weight
018-PA	Push Button Station	Single Purchase	25 fpm (0.13 m/s)	2,000 lbs. (907 kg)	1.5 (1.12 kW)	350 lbs. (159 kg)
018-PADP	Push Button Station	Double Purchase				

PowerAssist Electrical Requirements

Model	Speed	Capacity	HP	Current Draw		
				280 - 240 V	440 - 480 V	380 V 21 fpm (0.107 m/s)
018-PA	25 fpm	2,000 lbs.	1.5	5.8 A	2.7 A	3.3 A
018-PADP	(0.13 m/s)	(907 kg)	(1.12 kW)			



Design, Manufacture and Installation of Theatrical Equipment Worldwide
 For unusual applications, J.R. Clancy can create custom equipment to match your facility's specific needs. Please contact us to discuss your project's requirements.

2017-01

TECHNICAL SHEET



Custom Hoists

Custom hoists are available in almost any speed and capacity to meet your specific requirements.

Tell us about your requirements and we'll work with you to develop the hoist you need.

In addition to the hoists shown, here are a few of the types of custom hoists we've built for clients:

- A gantry crane in Bass Hall (Houston, TX) to move a 100,000 lb. (45,359.2 kg) folding acoustic ceiling for rapid changeovers from theatrical use to concert hall mode.
- Hoists to move the 50 ton (45.4 metric ton) proscenium "eyebrow" in the Oklahoma Civic Center Music Hall.
- In Miami's Carnival Center concert hall custom hoists move the massive (130,000 lbs. [58,967 kg]), three-part acoustic canopy to alter sound reflection within the hall.
- Banner hoists to raise and lower acoustic banners in the Omaha Performing Arts Center, Washington D.C.'s Shakespeare Theatre, the San Francisco Conservatory, and many others.
- The Seattle Opera uses a 600 fpm (3 m/s) curtain hoist to ensure the main curtain can clear the proscenium in 6 seconds.
- The Strathmore Concert Hall has 43 custom hoists to move acoustic panels which may be raised, lowered, and tilted side to side and front to back to create a completely configurable acoustic shell.
- A custom chandelier in the Winspear Opera House consisting of 318 internally illuminated rods forming a 40' high (12 m) and 40' (12 m) diameter lighting fixture that retracts into the ceiling.

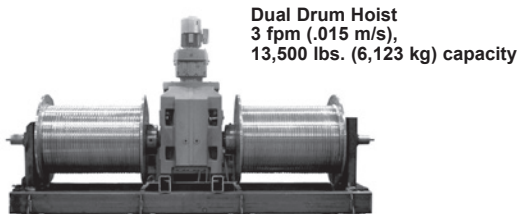
Ordering Information

We're pleased to provide you with quotes for our hoists. Please provide the following information:

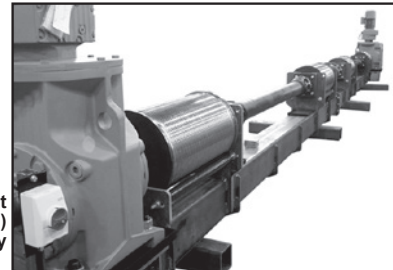
- Capacity
- Speed (fixed or variable speed, feet per minute [meters per second])
- Travel
- Number and diameter of lift lines
- Any special requirements
- Hoists require 3 phase power at 208, 230, or 460 VAC. Please confirm voltage at time of ordering (380 and 575 VAC and 50 Hz hoists are available for international projects).

Options

- Overspeed and load brakes
- Keeper rollers
- Dual drums
- Load cells
- Slack line detector
- Position encoder
- Cross groove detector
- Additional limit switches



Self climbing media screen hoist
with 34,000 lbs. (15,422 kg)
lifting capacity



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TECHNICAL SHEET



SceneControl® 5100 Rigging Control System

When you need accurate, repeatable positioning for battens that raise and lower equipment or curtains, you need the SceneControl® 5100 controller. Set up to eight presets – soft upper, soft lower and six intermediate targets – and run your motorized hoist with the knowledge that it will always return to the right place.

Applications

Small venues with nominal controller needs such as Colleges and Universities, High Schools, Middle Schools, Houses of Worship

Features

- Up to 8 channels (axes)
- User ID and Password access to multiple security levels

Options

- Load Sensing

Specifications

- Up to 8 channels (axes)
- Illuminated GO button
- Metric and Imperial unit capable

Safety

- Emergency Stop Operator
- Hold-to-Run operation
- Multi-Level security
- Status/Alarm page

Monitors and Screens

- 240 x 180 Backlit graphic LCD display in a pendant

Dimensions

- 11.97" l x 6.29" w x 3.35" h (304 mm x 159.8 mm x 85.1 mm)



Continued on the following page.

Warranty and Support

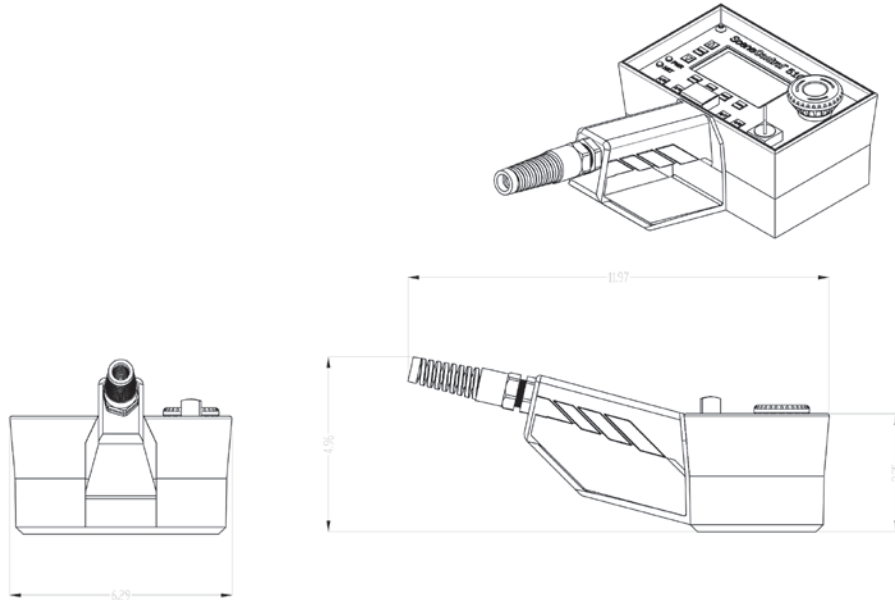
Three-Year Warranty against defects in materials or workmanship is provided on all J.R. Clancy equipment. Our warranty is contingent on operation by trained personnel and an annual equipment inspection of a J.R. Clancy authorized technician.

24/7 factory technical support with additional service and assistance provided by a worldwide network of J.R. Clancy authorized dealers.

Inspection and maintenance are available through J.R. Clancy's T.I.M.® (Train, Inspect, Maintain) Program. For more information call 1-800-836-1885 or email service@jrclancy.com.

Additional Information

Additional information on J.R. Clancy systems is available at www.jrclancy.com.



Order Information

Number	Description
064-SC5100P-1	SceneControl® 5100 Pendant, 1 axis
064-SC5100P-4	SceneControl® 5100 Pendant, 4 axes
064-SC5100P-8	SceneControl® 5100 Pendant, 8 axes



Design, Manufacture and Installation of Theatrical Equipment Worldwide

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TECHNICAL SHEET



SceneControl® 5200 Rigging Control System

SceneControl® 5200 console provides programming for an unlimited number of cues, whether the production requires complex cues with many moving battens or synchronized groups of point hoists. The 10.1" graphic touch-screen display shows the position of each batten and all of the targets, so you're never in the dark about elements in motion.

Applications

Medium to small venues with general performances such as: Theaters, Concert and Opera Houses, Colleges and Universities, High Schools, Middle Schools, Houses of Worship

Features

- Unlimited programming of shows
- Unlimited numbers of cues per show
- Up to 24 channels (axes)
- External USB ports for copying files or connecting approved input devices
- Multiple consoles can be networked together (requires network storage device)
- Motion commands initiated and maintained by hard-wired, illuminated push buttons that are not part of any touch screen function
- Start/Stop on axis multiple times within a cue or send an axis to multiple targets
- Run more than one cue at a time
- Run repetitive motion loops
- Change the speed of an axis in motion
- Create motion profiles based on time or velocity
- User ID and passwords which give the ability to restrict functions to appropriate users
- Multi-language supporting English plus two additional languages. Accepts input of Western, Russian, Asian and Arabic characters
- Data can be presented in units of feet/inches, decimal feet, meters or as a percentage
- Grouping with the ability to synchronize any number of hoists into a control group
- Create an unlimited set of macros for frequently used functions
- System critical actions are recorded and automatically saved in a time-stamped file
- Available as a rack mount, wall mount and a pendant



Options

- SIL3 Emergency Stop Upgrade
- Load Sensing
- Server or Network Storage Space (NAS)
- Remote access to a service technician via a secure access device

Specifications

- Unlimited programming of shows
- Up to 24 channels (axes)
- Multilingual interface
- Illuminated software function macros keys
- Unlimited numbers of cues per show
- Synchronized group operation
- Illuminated STOP/GO buttons

Safety

- Emergency Stop Operator
- Safety constraint algorithms
- Status/Alarm page
- Hold-to-Run bar
- Multi-level security
- Event log

Networking and Processing

- Networks with other J.R. Clancy consoles
- 32G Hard drive free storage space

Monitors and Screens

- 10.1" Touch Screen

Continued on the following page.

Stage Rigging - Control Systems

Dimensions

- SC5200R: 19" w x 6" d x 5RU h (482 mm x 152 mm x 5RU)
- SC5200R+: 19" w x 6" d x 8RU h (482 mm x 152 mm x 8RU)
- SC5200W: 20" w x 8" d x 16" h (508 mm x 203 mm x 406 mm)
- SC5200W+: 20" w x 8" d x 16" h (508 mm x 208 mm x 406 mm)
- SC5200P: 12.24" w x 2.95" d x 11.06" h [3.73"D w/ Estop operator] (311 mm x 75 mm x 281 mm [95 mm w/Estop operator])
- **Note:** 1 RU (Rack Unit) = 1.75" (44.5 mm)

System

- Operating System: MS Windows embedded
- Motion Control Software: Raynok for J.R. Clancy

Warranty and Support

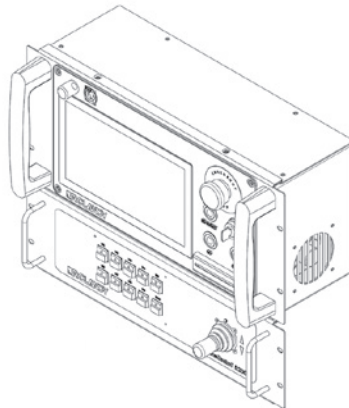
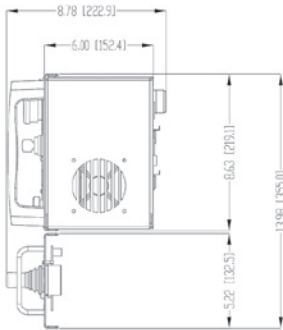
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Inspection and maintenance are available through J.R. Clancy's T.I.M.[®] (Train, Inspect, Maintain) Program. For more information call 1-800-836-1885 or email service@jrclancy.com.

Additional Information

Additional information on J.R. Clancy systems is available at www.jrclancy.com.



Order Information

Number	Description
064-SC5200W	SceneControl [®] 5200W Wall Mount
064-SC5200W+	SceneControl [®] 5200W Wall Mount with panel, macros, joystick
064-SC5200R	SceneControl [®] 5200R Rack Mount
064-SC5200R+	SceneControl [®] 5200R Rack Mount with panel, macros, joystick
064-SC5200P	SceneControl [®] 5200P Hand-held Pendant



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TECHNICAL SHEET



SceneControl® 5300 Rigging Control System

No matter how many scene changes and effects a show requires, the SceneControl® 5300 console takes on the challenge. There's no limit to the number of cues per show, or the number of shows you can create. With 48 different axes (channels), operators have plenty of capacity for complex moves onstage, even when several moves take place at the same time. Operators can keep a close eye on everything in motion using the 3D wireframe view of the performer space and axes.

Applications

Medium-sized venues requiring a compact, yet multipurpose, motion controller that may also want to consider 3D flight path programming such as: Theatres, Concert and Opera Houses, Colleges and Universities, High Schools, Houses of Worship

Features

- Unlimited programming of shows
- Unlimited numbers of cues per show
- Up to 48 channels (axes)
- External USB ports for copying files or connecting approved input devices
- Multiple consoles can be networked together (requires network storage device)
- Motion commands initiated and maintained by hard-wired, illuminated push buttons that are not part of any touch screen function
- Start/Stop on axis multiple times within a cue or send an axis to multiple targets
- Run more than one cue at a time
- Run repetitive motion loops
- Change the speed of an axis in motion
- Create motion profiles based on time or velocity
- User ID and passwords which give the ability to restrict functions to appropriate users
- Multi-language supporting English plus two additional languages. Accepts input of Western, Russian, Asian and Arabic characters
- Integrated 3D wireframe view which operators may select axes to operate
- Data can be presented in units of feet/inches, decimal feet, meters or as a percentage
- Grouping with the ability to synchronize any number of hoists into a control group
- Create an unlimited set of macros for frequently used functions
- System critical actions are recorded and automatically saved in a time-stamped file

Options

- SIL3 Emergency Stop Upgrade
- Load Sensing
- 3D Flight path programming
- Server or Network Storage Space (NAS)
- Remote access to a service technician via a secure access device



Continued on the following page.

Stage Rigging - Control Systems

Specifications

- Unlimited programming of shows
- Up to 48 channels (axes)
- Multilingual interface
- Illuminated software function macros keys
- Unlimited numbers of cues per show
- Synchronized group operation
- Illuminated STOP/GO buttons

Safety

- Emergency Stop Operator
- Safety constraint algorithms
- Status/Alarm page
- Hold-to-Run bar
- Multi-level security
- Event log

Networking and Processing

- Networks with other J.R. Clancy consoles
- 32G Hard drive free storage space
- 3D Flight path programming capable

Monitors and Screens

- Desktop integrated 15.6" 1080p capacitive touch screen
- Full QWERTY keyboard
- Joystick for axis jogging

Weight

- 46 lbs. (21 kg)

Dimensions

- 21.5"W x 23.5"D x 3.75"H (550mm x 600mm x 95mm)

System

- Operating System: MS Windows embedded
- Motion Control Software: Raynok for J.R. Clancy

Warranty and Support

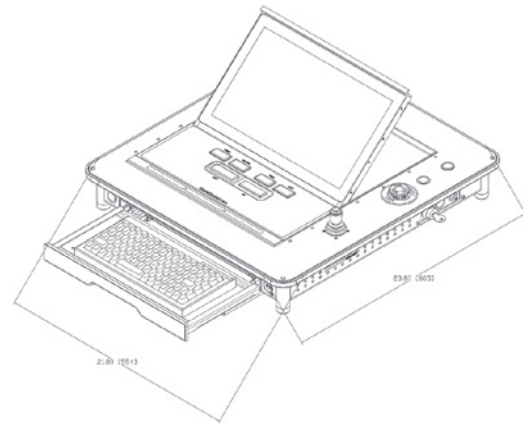
Three-Year Warranty against defects in materials or workmanship is provided on all J.R. Clancy equipment. Our warranty is contingent on operation by trained personnel and an annual equipment inspection of a J.R. Clancy authorized technician.

24/7 factory technical support with additional service and assistance provided by a worldwide network of J.R. Clancy authorized dealers.

Inspection and maintenance are available through J.R. Clancy's T.I.M.® (Train, Inspect, Maintain) Program. For more information call 1-800-836-1885 or email service@jrclancy.com.

Additional Information

Additional information on J.R. Clancy systems is available at www.jrclancy.com.



Order Information

Number	Description
064-SC5300-CNSL	SceneControl® 5300 Console



2017-01

TECHNICAL SHEET



SceneControl® 5500 Rigging Control System

Imagine having the ability to program many different moving elements within a single cue, and running several complex cues at the same time. The SceneControl® 5500 console makes all of this possible, using the reimagined control software found in every control system in the SceneControl® 5000 line. Now you can program and save an entire season of rotating repertory or a recurring annual pageant, and still have plenty of hard drive space for one-week or one-night productions.

Applications

Medium to large venues running major productions that may also want to consider 3D flight path programming such as: Theatres, Performing Arts Centers, Concert and Opera Houses, Arenas, Colleges and Universities, Touring, Houses of Worship

General Features

- Unlimited programming of shows
- Unlimited numbers of cues per show
- Unlimited number of channels (axes)
- Parallel processing computer including hard drive, processor, video card and OS
- External USB ports for copying files or connecting approved input devices
- Multiple consoles can be networked together (requires network storage device)
- Motion commands initiated and maintained by hard-wired, illuminated push buttons that are not part of any touch screen function
- Start/Stop on axis multiple times within a cue or send an axis to multiple targets
- Run more than one cue at a time
- Run repetitive motion loops
- Change the speed of an axis in motion
- Create motion profiles based on time or velocity
- User ID and passwords which give the ability to restrict functions to appropriate users
- Multi-language supporting English plus two additional languages. Accepts input of Western, Russian, Asian and Arabic characters
- Integrated 3D wireframe view which operators may select axes to operate
- Data can be presented in units of feet/inches, decimal feet, meters or as a percentage
- Grouping with the ability to synchronize any number of hoists into a control group
- Create an unlimited set of macros for frequently used functions
- System critical actions are recorded and automatically saved in a time-stamped file

Options

- SIL3 Emergency Stop Upgrade
- Load Sensing
- 3D Flight path programming
- Server or Network Storage Space (NAS)
- Remote access to a service technician via a secure access device



Continued on the following page.

Stage Rigging - Control Systems

Specifications

- Unlimited programming of shows
- Unlimited numbers of cues per show
- Unlimited number of channels (axes)
- Synchronized group operation
- Multilingual interface
- Illuminated STOP/GO buttons
- Illuminated software function macros keys

Safety

- Emergency Stop Operator
- Hold-to-Run bar
- Safety constraint algorithms
- Multi-level security
- Status/Alarm page
- Event log

Networking and Processing

- Networks with other J.R. Clancy consoles
- Parallel Processing
- 32G Hard drive free storage space
- 3D Flight path programming capable

Monitors and Screens

- Single 24" 1920 x 1080 TFT HDMI monitor
- Full QWERTY keyboard
- Touchpad
- Joystick for axis jogging
- 10.1" 1080p capacitive Master Helm touch screen

Weight

- Without external monitors: 36 lbs. (16.5 kg)
- With external monitors: 52 lbs. (23.5 kg)

Dimensions

- Without external monitors: 26" w x 22" d x 3.75" h (660 mm x 558 mm x 95 mm)
- With external monitors: 26" w x 22" d x 22" h (660 mm x 558 mm x 558 mm)

System

- Operating System: MS Windows embedded
- Motion Control Software: Raynok for J.R. Clancy

Warranty and Support

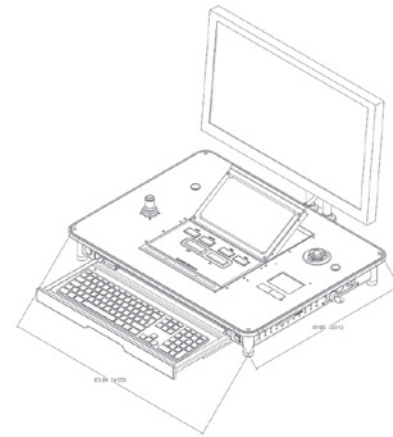
Three-Year Warranty against defects in materials or workmanship is provided on all J.R. Clancy equipment. Our warranty is contingent on operation by trained personnel and an annual equipment inspection of a J.R. Clancy authorized technician.

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Additional Information

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Order Information

Number	Description
064-SC5500-CNSL	SceneControl® 5500 Console



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2017-01

TECHNICAL SHEET



SceneControl® 5600 Rigging Control System

The SceneControl® 5600 console starts with the reimagined control software that sets the entire SceneControl console family apart from the pack. There's no limit to the number of shows you can program, or the number of cues per show, or even to the complexity of the cues. Multi-level cueing, grouping, and control of an unlimited number of axes per cue make this console the perfect partner for venues that present major touring productions or a wide repertoire in a single season.

Applications

Large venues running complex performances that may also want to consider 3D flight path programming such as: Theatres, Performing Arts Centers, Concert and Opera Houses, Arenas, Colleges and Universities, Casinos, Touring

Features

- Unlimited programming of shows
- Unlimited numbers of cues per show
- Unlimited number of channels (axes)
- Redundant Parallel Processing computer including hard drive, processor, video card and OS
- External USB ports for copying files or connecting approved input devices
- Multiple consoles can be networked together (requires network storage device)
- Motion commands initiated and maintained by hard-wired, illuminated push buttons that are not part of any touch screen function
- Start/Stop on axis multiple times within a cue or send an axis to multiple targets
- Run more than one cue at a time
- Run repetitive motion loops
- Change the speed of an axis in motion
- Create motion profiles based on time or velocity
- User ID and passwords which give the ability to restrict functions to appropriate users
- Multi-language supporting English plus two additional languages. Accepts input of Western, Russian, Asian and Arabic characters
- Integrated 3D wireframe view which operators may select axes to operate
- Data can be presented in units of feet/inches, decimal feet, meters or as a percentage
- Grouping with the ability to synchronize any number of hoists into a control group
- Create an unlimited set of macros for frequently used functions
- System critical actions are recorded and automatically saved in a time-stamped file

Options

- SIL3 Emergency Stop Upgrade
- Load Sensing
- 3D Flight path programming
- Server or Network Storage Space (NAS)
- Remote access to a service technician via a secure access device



Continued on the following page.

Stage Rigging - Control Systems

Specifications

- Unlimited programming of shows
- Unlimited numbers of cues per show
- Unlimited number of channels (axes)
- Synchronized group operation
- Multilingual interface
- Illuminated STOP/GO buttons
- Illuminated software function macros keys

Safety

- Emergency Stop Operator
- Hold-to-Run bar
- Safety constraint algorithms
- Multi-level security
- Status/Alarm page
- Event log

Networking and Processing

- Networks with other J.R. Clancy consoles
- Redundant Parallel Processing
- 32G Hard drive free storage space
- 3D Flight path programming capable

Monitors and Screens

- Dual 24" 1920 x 1080 TFT HDMI monitors
- 15.6" 1080p capacitive Master Helm touch screen
- Full QWERTY keyboard
- Touchpad
- 2 Joysticks for axis jogging

Weight

- Without external monitors: 64 lbs. (29 kg)
- With external monitors: 96 lbs. (43.5 kg)

Dimensions

- Without external monitors: 31.5" w x 23.5" d x 3.75" h (800 mm x 600 mm x 95 mm)
- With external monitors: 31.5" w x 23.5" d x 22" h (680 mm x 600 mm x 558 mm)

System

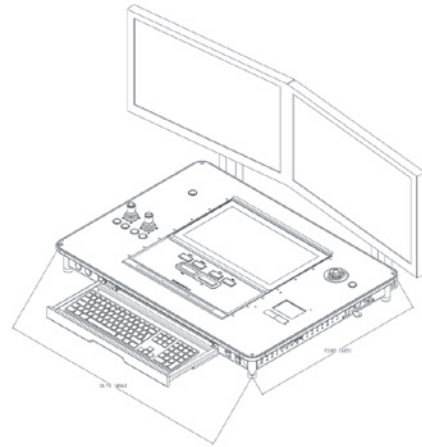
- Operating System: MS Windows embedded
- Motion Control Software: Raynok for J.R. Clancy

Warranty and Support

Three-Year Warranty against defects in materials or workmanship is provided on all J.R. Clancy equipment. Our warranty is contingent on operation by trained personnel and an annual equipment inspection of a J.R. Clancy authorized technician.

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Order Information

Number	Description
064-SC5600-CNSL	SceneControl [®] 5600 Console



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2017-01

TECHNICAL SHEET



Push Button Controls

Standard and custom control stations for fixed and variable speed hoists, with the following features:

- Hold-to-run Up and Down push buttons for each hoist.
- A key-operated On/Off switch with green "Power On" LED indicator.
- A red, mushroom-head emergency stop push button.
- A "Service" light indicates when regular system service is required.
- NEMA 1 wall-mounted enclosures.
- Engraved front panel with warning notice.
- Panel components including push buttons, key switches, E-stop switches, etc. are industrial-grade, heavy-duty components with 7/8" (22 mm) operators. Indicators are 5/16" (7.9 mm) minimum diameter.

Custom Models

For custom control stations provide the following information:

- Number and names of channels
- Number of variable speed controls
- Number and names of indicators
- Any special requirements

Application drawings and more information are available for download on our web site.



Order Information

Number	Description
060-CS	Clancy can create a control station to your specific needs. Please contact the factory for ordering information.



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2017-01

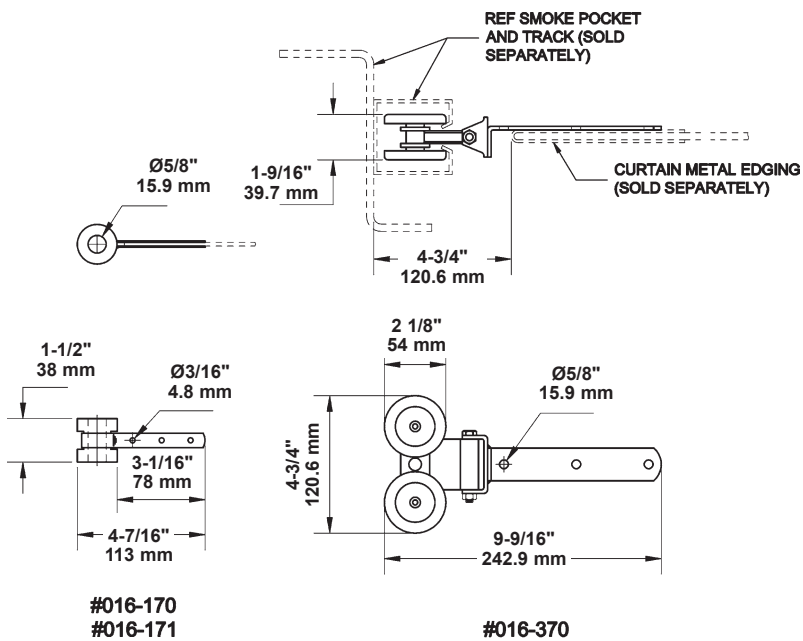
TECHNICAL SHEET



Curtain Guides

- Curtain guides are used on the edges of fire curtains and other curtains to guide the curtains along tensioned wire ropes or in tracks. This reduces the bowing from unequal pressure on the opposite sides of the curtain.
- Bronze guides are traditional and are necessary for fire safety curtains.
- The ultra-high molecular weight (UHMW) plastic guides are lighter in weight and quieter in operation. These are not recommended for use on fire curtains, but are very useful for guided stage curtains to control movement and to prevent hour glassing.
- Roller guides are used with tracks for heavier duty applications. See the Fire Curtain Smoke Pockets page for information on smoke pockets with guide tracks for use with roller guides.

Dimensions



Curtain Guide, Bronze Spool
016-170



Curtain Guide, UHMW Spool
016-171



Curtain Guide, Steel Rollers
016-370

Order Information

Number	Description
016-170	Curtain Guide Bronze Spool
016-171	Curtain Guide UHMW Spool (Not for Fire Safety Curtain Use)
016-370	Curtain Guide Steel Rollers (Requires steel hem reinforcement)



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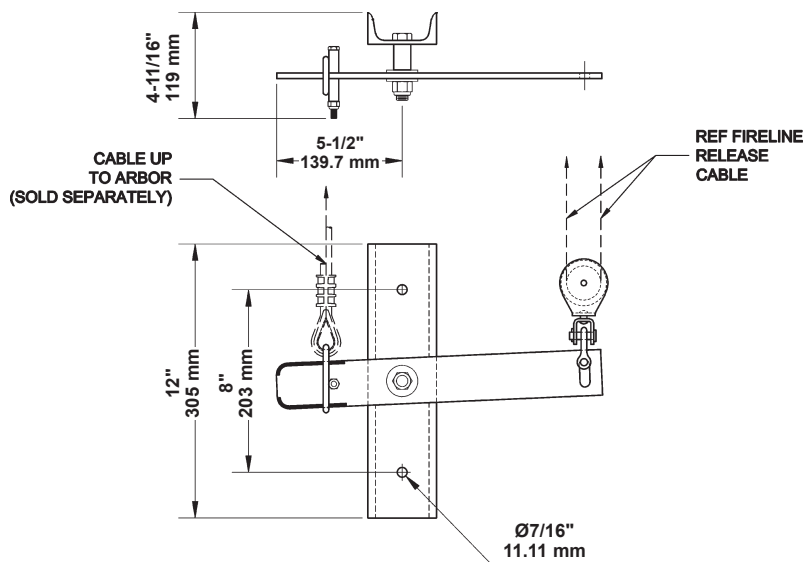
TECHNICAL SHEET



Fire Curtain Arbor Release

- Releases the arbor, allowing a manually operated straight lift fire curtain to close.
- Dependable operation — easier to use and reset than traditional free end ball systems.
- Simple installation for new or existing stages.
- Our unique design ensures dependable operation. The ring and line on the left are attached to the bottom of the arbor, keeping the curtain open. The lever is held in place by the fire line (at right). Once the fire line is released the lever pivots, releasing the arbor and allowing the curtain to close.
- Includes pivoting release lever, swivel eye awning pulley with shackle, and ring.

Dimensions



Fire Curtain Arbor Release
016-AR

Order Information

Number	Description	Weight
016-AR	Fire Curtain Arbor Release	10 lbs. (4.5 kg)



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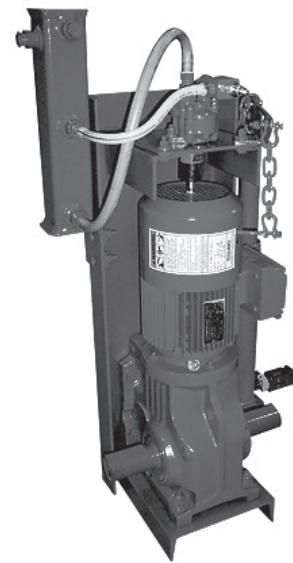
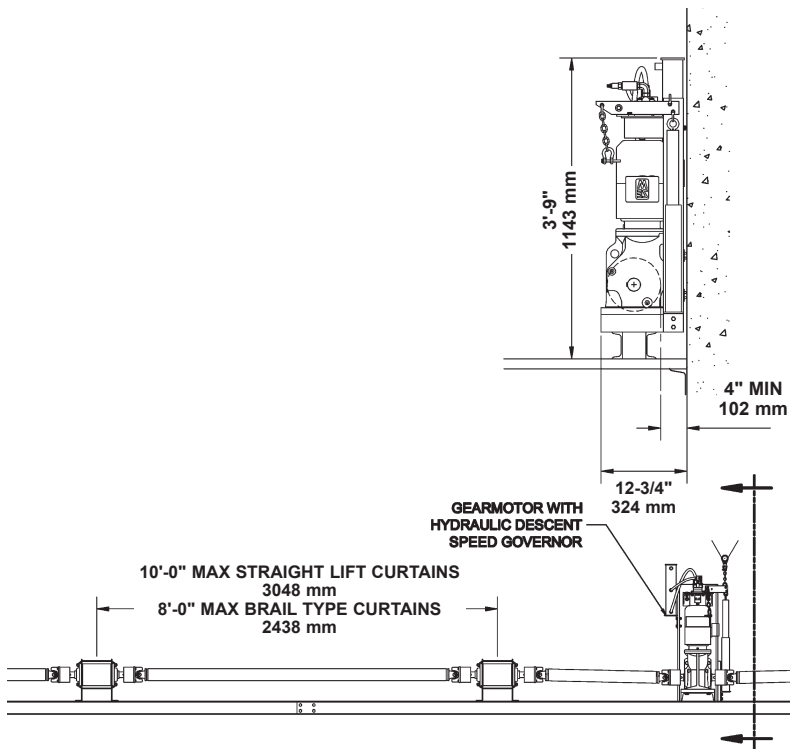
TECHNICAL SHEET



Fire Curtain Line Shaft Hoist

- Simple, convenient operation of large fire curtains — up to 1,400 lbs. (635 kg).
- Motorized line shaft hoist used to raise and lower fire curtains.
- Normal operation by push button control stations allows easy raising and lowering.
- The curtain is held in place by a disk brake which is engaged by the fire line.
When released an adjustable hydraulic speed governor controls the curtain's descent speed.
- Shaft length and number of drums provided to meet your specific project requirements.
- Available for operation on 208, 230, or 460 VAC 3 phase power.
Please confirm voltage at time of ordering.
- Push button control stations.

Dimensions



Fire Curtain Line Shaft Hoist
016-FCLS

Order Information

Number	Description	Capacity	Weight
016-FCLS	Fire Curtain Line Shaft Hoist	1400 lbs. (635 kg)	Varies



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TECHNICAL SHEET



Fire Curtains

- Provides a fire-rated barrier between the stage and auditorium, as required by the International Building Code (IBC) and other building codes.
- Brail or Straight Lift styles, to suit your stage architecture.
- Manual or Motorized – all curtains close automatically when activated, non-emergency operations can be motorized for convenience or code compliance.
- Zetex® Plus 1210ZP curtains (40 oz./sq. yd. [1.36 kg/m²]) are Listed by the State of California Fire Marshall (1670-1164:0101), and by the NYC Department of Buildings Materials and Equipment Acceptance Division (MEA 212-08-M). Listings are for curtains with or without wire insertion.
- Zetex® Plus 1210ZP curtains have a 30 minute rating and meet or exceed most fire code requirements.
- Fabric is available in natural (tan) or black.
- Framed-type curtains also available.
- Fire curtain systems meet ANSI E1.22 – 2009 “Entertainment Technology Fire Safety Curtain Systems” or NFPA 80 “Standard for Fire Doors and Other Opening Protectives – 2007”.



Straight Lift Fire Curtain

Order Information

Number	Description
017-1201	Zetex Fire Curtain, Straight Lift
017-1201B	Zetex Fire Curtain, Straight Lift, Black
017-1201BW	Zetex Fire Curtain, Straight Lift, Black, Wire Inserted
017-1201W	Zetex Fire Curtain, Straight Lift, Wire Inserted
017-1203	Zetex Fire Curtain, Brail
017-1203B	Zetex Fire Curtain, Brail, Black

Please provide section and elevation drawings of the proscenium wall area when requesting a quotation.



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2017-01

TECHNICAL SHEET



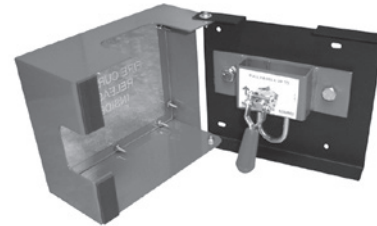
Fire Line Release & Enclosure

Lever Release

- Easy-to-use lever provides a simple, positive method of releasing the fire line.
- No pins to pull or lose.
- The over-center design of the lever offers added reliability, ensuring the handle will pull the pin and release the fire line. This overcomes the tendency of some pull ring systems to bind when the fire line is heavily loaded.
- Includes fire release sign.

Enclosure

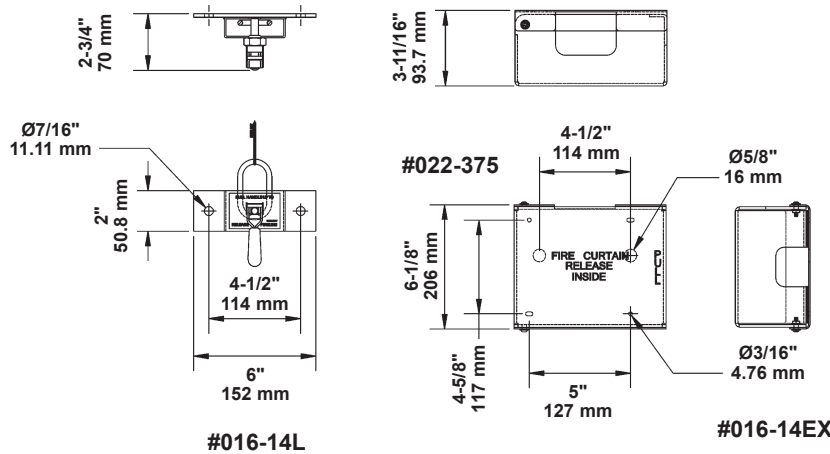
- Sturdy enclosure accommodates the lever and mounting hardware.
- A clear acrylic window allows clear view of the release.
- The integral hand grip allows the cover to be opened easily in the event of fire, yet provides protection against accidental activation.
- High contrast lettering on the cover for easy visibility.



Fire Line Release
016-14L

Fire Curtain Release Enclosure
016-14EX

Dimensions



Order Information

Number	Description	Weight
016-14L	Fire Line Release	1.5 lbs. (0.68 kg)
016-14EX	Fire Curtain Release Enclosure	2 lbs. (0.91 kg)



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TECHNICAL SHEET



Fusible Links

Electro Thermal Link

- Used to connect the fire curtain system to fire alarms or other electrical systems.
- Link separates when electricity is applied.
- UL Listed.

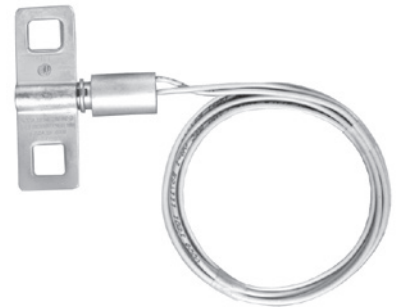
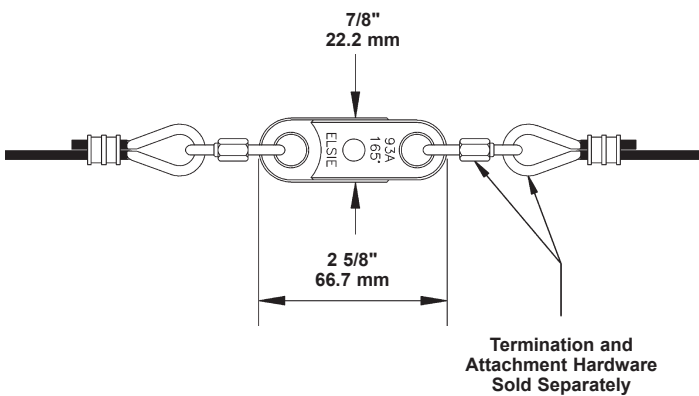
Rate of Rise Detector

- Used to release fire curtain when:
 - Temperature raises 15°F (7.1°C) in one minute.
 - Temperature exceeds 135°F (57.2°C).
- Normally open contact.
- UL Listed.

Fusible Link

- Placed in the fire line to release the fire curtain.
- Link separates at a temperature of 165°F (74°C).
- UL Listed.

Dimensions



Electro Thermal Link
016-ETL



Rate of Rise Detector
099-281B



Fusible Link
016-7519

Order Information

Number	Description	RWL	Weight
016-ETL	Electro Thermal Link	40 lbs. (18.1 kg)	0.2 lbs. (0.09 kg)
099-281B	Rate of Rise Detector	-	-
016-7519	Fusible Link	40 lbs. (18.1 kg)	0.2 lbs. (0.09 kg)



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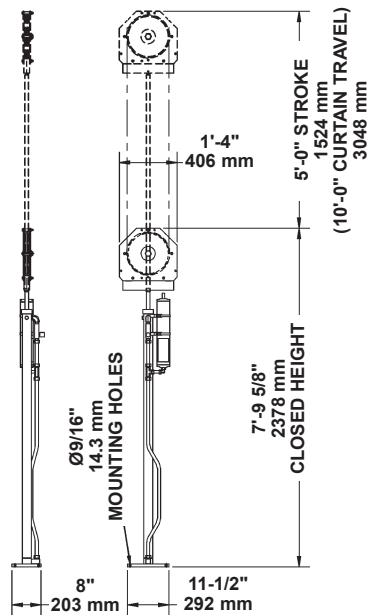
TECHNICAL SHEET



Hydraulic Dashpots

- Used on heavy straight lift fire curtains to slow the last few feet of descent. May be needed to meet code requirements that the last 8' (2.4 m) of travel take 5 or more seconds.
- Provides 10' (3.0 m) of damping using a double purchased 5' (1.5 m) piston.
- 12" (305 mm) diameter sheave for 3/8" (9.5 mm) dashpot cable.
- The dashpot is rigged in a double purchase arrangement with a cable which is snatched by the fire curtain arbor when the curtain is nearing the floor. The dashpot cable pulls on the sheave at the top of the piston rod of the hydraulic cylinder. A fluid flow adjusting valve is preset to provide the appropriate retarding force on the piston, braking the descent of the curtain. The piston and cylinder automatically release the oil to return the unit to an "at rest condition" when the curtain is raised.
- 016-410L used for curtains up to 3500 lbs. (1588 kg).
- 016-411L used for curtains up to 1250 lbs. (567 kg).
- Custom units available.

Dimensions



#016-411L



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Hydraulic Dashpot
016-410L

Order Information

Number	Description	RWL	Weight
016-410L	Hydraulic Dashpot, Heavy Duty	3500 lbs. (1588 kg)	200 lbs. (90.7 kg)
016-411L	Hydraulic Dashpot, Standard Duty	1250 lbs. (567 kg)	115 lbs. (52.2 kg)

RWL is based on an 8:1 safety factor.

RWL: RWL is maximum load that can be applied to the dashpot which is in "like new" condition and has been properly installed, maintained, and operated.

2017-01

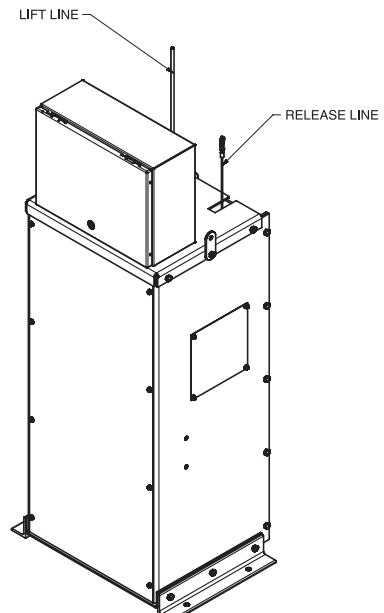
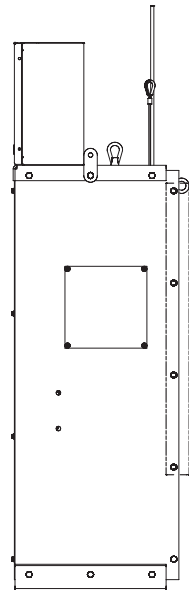
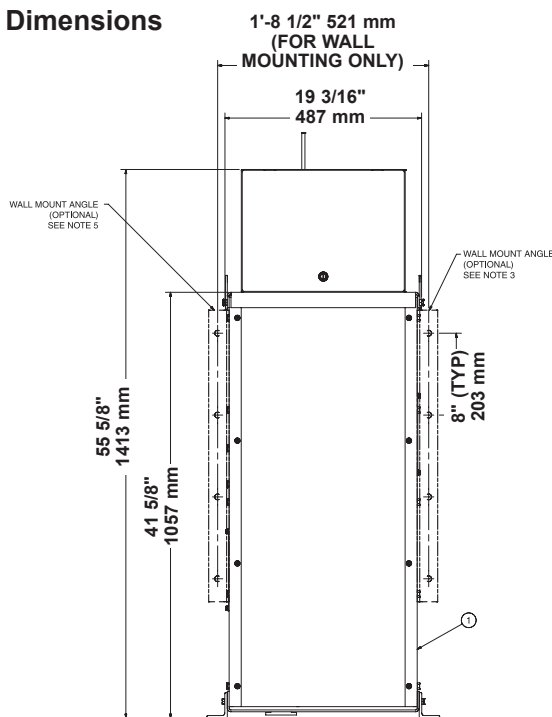
TECHNICAL SHEET



Motorized Fire Curtain Hoist

- Motorized fire curtain hoist with integral speed regulation used to raise and lower fire curtains - up to 1,100 lbs. (499 kg).
Note: Hoist is designed for constant load between 500 lbs. (227 kg) and 1,100 lbs. (499 kg).
 Brail curtains may require additional pipe weight to operate properly.
- Push button control stations for easy operation.
- Emergency lowering speed controlled by hydraulic speed regulator.
- 75' (22.9 m) of 5/16" (7.9 mm) of drive line included.
- Meets requirements of ANSI E1.22 – 2009 "Entertainment Technology Fire Safety Curtain Systems" or NFPA 80 "Standard for Fire Doors and Other Opening Protectives – 2007".
- Control Station included.
- Available for operation on 208, 230, or 460 VAC 3 phase power.
 Please confirm voltage at time of ordering.

Dimensions



Motorized Fire Curtain Hoist
016-501P-2-F



Design, Manufacture and Installation of Theatrical Equipment Worldwide
 For unusual applications, J.R. Clancy can create custom equipment to match your facility's specific needs. Please contact us to discuss your project's requirements.

Order Information

Number	Description	Capacity	Weight
016-501P-2-F	Motorized Fire Curtain Hoist 208V, Floor Mount	1100 lbs.(499 kg)	550 lbs.(249 kg)
016-501P-2-W	Motorized Fire Curtain Hoist 208V, Wall Mount	1100 lbs.(499 kg)	550 lbs.(249 kg)
016-501P-3-F	Motorized Fire Curtain Hoist 380-415V, Floor Mount	1100 lbs.(499 kg)	550 lbs.(249 kg)
016-501P-3-W	Motorized Fire Curtain Hoist 380-415V, Wall Mount	1100 lbs.(499 kg)	550 lbs.(249 kg)
016-501P-4-F	Motorized Fire Curtain Hoist 480V, Floor Mount	1100 lbs.(499 kg)	550 lbs.(249 kg)
016-501P-4-W	Motorized Fire Curtain Hoist 480V, Wall Mount	1100 lbs.(499 kg)	550 lbs.(249 kg)

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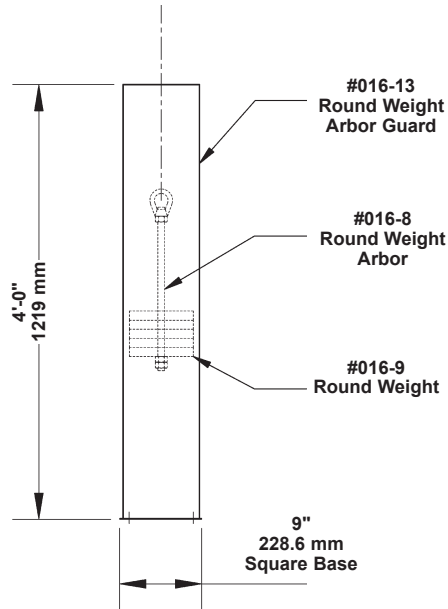
TECHNICAL SHEET



Round Weight Arbor Components

- Round weights are used to tension fire lines, dashpot cables, and overbalance clutch levers.
- Round weight arbors hold 1 to 10 round weights.
- An arbor guard is available.

Dimensions



Order Information

Number	Description	Weight
016-8	Round Weight Arbor	3 lbs. (1.36 kg)
016-9	Round Weight	5 lbs. (2.7 kg)
016-13	Round Weight Arbor Guard	15 lbs. (6.8 kg)



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2017-01

TECHNICAL SHEET



Smoke Pockets

- Smoke pockets contain the sides of the curtain to reduce the passage of smoke and house the curtain guides.
- Pockets consist of a 6" (152 mm) or 8" (203 mm) deep "Z" channel and 18" (457 mm) wide plates, all formed from 1/4" (6.35 mm) steel plate in 5' (1.524 m) and 10' (3.048 m) lengths. The removable 18" (457 mm) plates make smoke pocket and curtain installation faster and simpler than one piece designs.
- 6" (152 mm) pockets are used with most straight lift curtains; 8" (203 mm) deep pockets are used with brail fire curtains.
- All connections are bolted for serviceability.
- Sections anchor to the building with 1/2" (12.7 mm) bolts or anchors on 4' (1.2 m) centers.
- Pockets with guide tracks are used for fire curtains with 016-370 roller guides.

Order Information

Number	Description	Weight
016-106005	6" Deep x 5' high (152 mm x 1.524 m) Smoke Pocket	111 lbs. (50.3 kg)
016-106010	6" Deep x 10' high (152 mm x 3.048 m) Smoke Pocket	222 lbs. (100.6 kg)
016-108005	8" Deep x 5' high (203 mm x 1.524 m) Smoke Pocket	119 lbs. (54 kg)
016-108010	8" Deep x 10' high (203 mm x 3.048 m) Smoke Pocket	238 lbs. (108 kg)
016-106T05	6" Deep x 5' high (152 mm x 1.524 m) Smoke Pocket with track	125 lbs. (56.7 kg)
016-106T10	6" Deep x 10' high (152 mm x 3.048 m) Smoke Pocket with track	250 lbs. (113.4 kg)

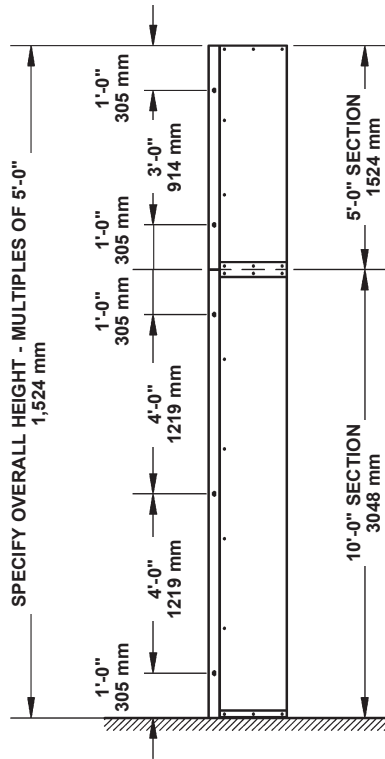


Smoke Pocket
016-106005

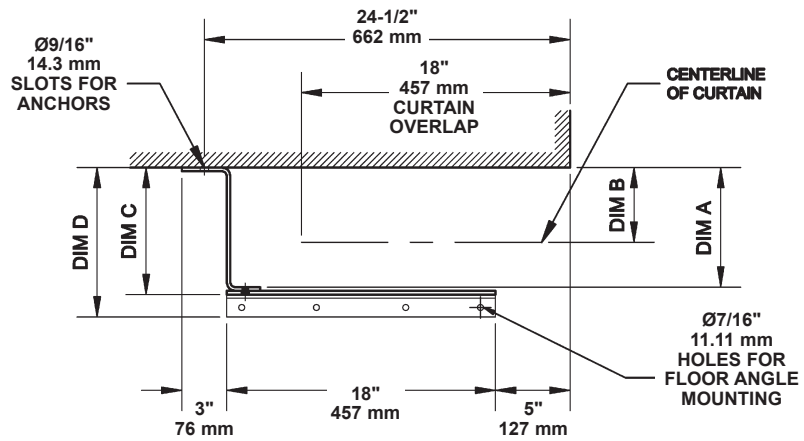
Continued on the following page.

Stage Rigging - Fire Safety Curtains

Dimensions



Typical Elevation



Typical Plan

Number	Height	Dim A	Dim B	Dim C	Dim D
016-106005	5' (1.5 m)	6" (152 mm)	3" (76 mm)	6-1/2" (165 mm)	8" (203 mm)
016-106010	10' (3.0 m)	6" (152 mm)	3" (76 mm)	6-1/2" (165 mm)	8" (203 mm)
016-108005	5' (1.5 m)	8" (203 mm)	5" (127 mm)	8-1/2" (216 mm)	10" (254 mm)
016-108010	10' (3.0 m)	8" (203 mm)	5" (127 mm)	8-1/2" (216 mm)	10" (254 mm)
016-106T05	5' (1.5 m)	6" (152 mm)	3" (76 mm)	6-1/2" (165 mm)	8" (203 mm)
016-106T10	10' (3.0 m)	6" (152 mm)	3" (76 mm)	6-1/2" (165 mm)	8" (203 mm)



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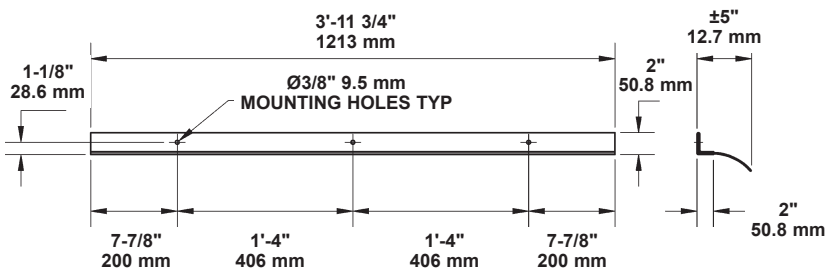
TECHNICAL SHEET



Smoke Seal

- Used to seal the horizontal gap between the top of the fire curtain and the proscenium wall.
- Modular pieces are 4' (1.2 m) long making handling easier and reducing field installation time.
- A triple layer of Zetex™ fabric is factory crimped into the folded steel mounting angle, providing the stiffness necessary to maintain contact with the fire curtain.
- The angle is pre-punched on 16" (406 mm) centers for mounting convenience.
- Each piece weighs only 5.5 lbs. (2.5 kg), for simple handling.
- Smoke seal sections may be trimmed to fit as required.

Dimensions



Smoke Seal Assembly
016-SEAL4

Order Information

Number	Description	Weight
016-SEAL4	Smoke Seal Assembly, 4 ft. long (1.2 m)	6 lbs. (2.7 kg)



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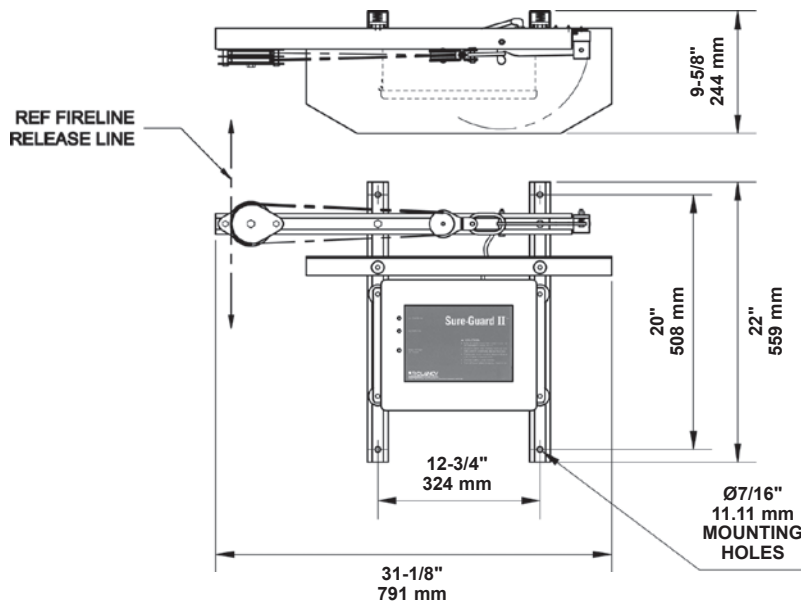
TECHNICAL SHEET



SureGuard® II

- Allows fire detection systems such as smoke detectors or other electrical signals to release the fire curtain.
- Works with sensors using either "Normally Open" or "Normally Closed" contacts.
- When triggered, the Sure-Guard II's electro-mechanical mechanism releases tension in the fire line, allowing the fire safety curtain to close. The release mechanism may be attached to the fire line at any point and does not interfere with other release mechanisms.
- Release mechanism is jostle resistant to reduce false tripping.
- A sealed lead acid battery and charger holds the release in the event of power loss.
- 120 VAC power required.
- UL Listed.

Dimensions



SureGuard II Release System
016-970

Order Information

Number	Description	Weight
016-970	SureGuard II Release System	40 lbs. (18.1 kg)



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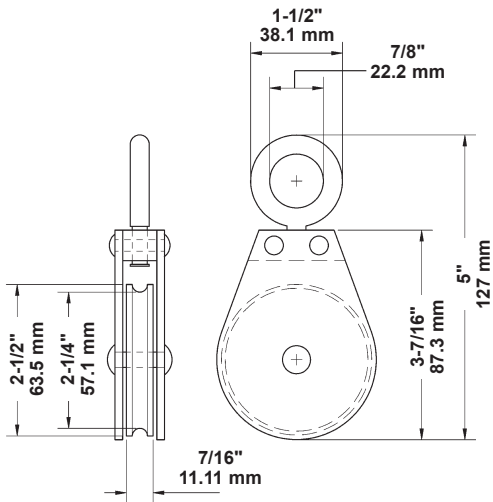
TECHNICAL SHEET



Swivel Eye Pulley

- Used in fire lines.
- 2-1/4" (57.1 mm) sheave grooved for 1/8" (3.175 mm) wire rope.
- Swivel eye with 7/8" (22.2 mm) diameter opening.

Dimensions



Swivel Eye Pulley
099-SWEP

Order Information

Number	Description	RWL	Weight
099-SWEP	Swivel Eye Pulley	250 lbs. (1.3 kg)	1 lbs. (0.45 kg)
<i>RWL is based on an 8:1 safety factor.</i>			
RWL: RWL is maximum load that can be applied to the swivel eye pulley which is in "like new" condition and has been properly installed, maintained, and operated.			



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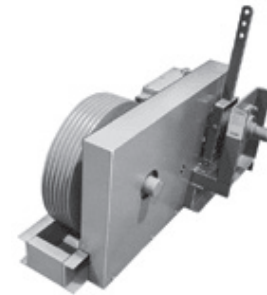
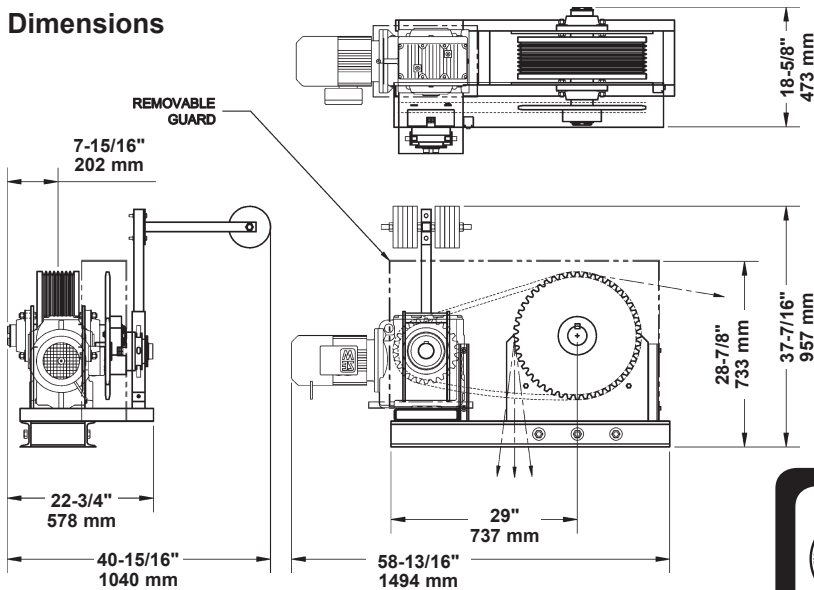
TECHNICAL SHEET



Traction Drive Hoist

- Curtain guides are used on the edges of fire curtains and other curtains to guide the curtains along tensioned wire ropes or in tracks. This reduces the bowing from unequal pressure on the opposite sides of the curtain.
- Bronze guides are traditional and are necessary for fire safety curtains.
- The ultra-high molecular weight (UHMW) plastic guides are lighter in weight and quieter in operation. These are not recommended for use on fire curtains, but are very useful for guided stage curtains to control movement and to prevent hour glassing.
- Roller guides are used with tracks for heavier duty applications. See the Fire Curtain Smoke Pockets page for information on smoke pockets with guide tracks for use with roller guides.

Dimensions



Traction Drive Hoist
016-2TW



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Order Information

Number	Description	RWL	Weight
016-2TW-2-L	Fire Curtain Traction Hoist 2000 lbs. (907 kg), 208V, Mounted Stage Left, 25 fpm (0.13 m/s)	2000 lbs. (907 kg)	1200 lbs. (544 kg)
016-2TW-2-R	Fire Curtain Traction Hoist 2000 lbs. (907 kg), 208V, Mounted Stage Right, 25 fpm (0.13 m/s)	2000 lbs. (907 kg)	1200 lbs. (544 kg)
016-2TW-3-L	Fire Curtain Traction Hoist 2000 lbs. (907 kg), 380-415V, Mounted Stage Left, 25 fpm (0.13 m/s)	2000 lbs. (907 kg)	1200 lbs. (544 kg)
016-2TW-3-R	Fire Curtain Traction Hoist 2000 lbs. (907 kg), 380-415V, Mounted Stage Right, 25 fpm (0.13 m/s)	2000 lbs. (907 kg)	1200 lbs. (544 kg)
016-2TW-4-L	Fire Curtain Traction Hoist 2000 lbs. (907 kg), 480V, Mounted Stage Left, 25 fpm (0.13 m/s)	2000 lbs. (907 kg)	1200 lbs. (544 kg)
016-2TW-4-R	Fire Curtain Traction Hoist 2000 lbs. (907 kg), 480V, Mounted Stage Right, 25 fpm (0.13 m/s)	2000 lbs. (907 kg)	1200 lbs. (544 kg)

RWL: RWL is maximum load that can be applied to the traction drive hoist which is in "like new" condition and has been properly installed, maintained, and operated.

2017-01

TECHNICAL SHEET



Zetex® Borders

- Heat-resisting borders are used to help protect stage curtains and scenery from heat from theatrical lighting fixtures.
- Borders are sewn from Zetex® Plus 800ZP fabric (26 oz./sq. yd. [.88 kg/m²]).
- Fabric is available in natural (tan) or black.
- Includes webbing, grommets, and ties on 1' (0.3 m) centers on the upper edge.

Order Information

Number	Description
017-1204	Zetex Border, Natural
017-1204B	Zetex Border, Black

Please provide length and height of the border when requesting a quotation.



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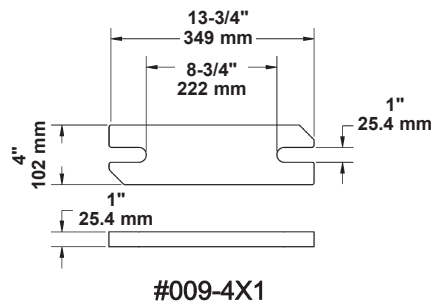
TECHNICAL SHEET



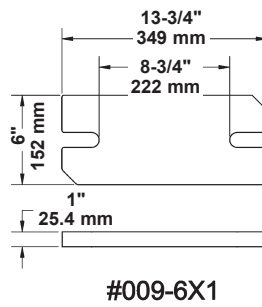
Counterweights

- Used in arbors to counterbalance the weight of the batten and scenery or lights.
- Weights are flame-cut steel.
- Opposite corners have 45° notches to provide finger grips.
- 13-3/4" (349.25 mm) length, with slotted ends for 3/4" (19 mm) diameter arbor rods spaced on 10" (254 mm) centers.
- Sold in 1000 lbs. (454 kg) pallets.
- Actual weight can vary by ± 20% from the nominal weight.

Dimensions



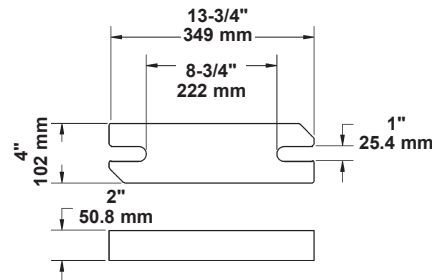
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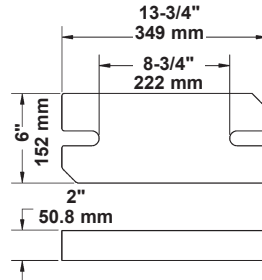
#009-6X1



Counterweight
009-4X1



#009-4X2



#009-6X2

Order Information

Number	Width	Nominal Thickness	Nominal Weight
009-4X	4" (102 mm)	1" (25.4 mm)	4 lbs. (6.3 kg)
009-4X2	4" (102 mm)	2" (50.8 mm)	28 lbs. (12.7 kg)
009-6X	6" (152 mm)	1" (25.4 mm)	22 lbs. (10 kg)
009-6X2	6" (152 mm)	2" (50.8 mm)	43 lbs. (19.5 kg)



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TECHNICAL SHEET



J-Guide/T-Bar Double Purchase Arbors

- Used in J-Guide/T-Bar guided systems to hold counterweight that balances the batten load.
- Arbor tops are fabricated from 1/2" (12.6 mm) steel, and contain an 8-1/2" (216 mm) diameter ASTM A48 grey iron sheave with equal pitch diameter rope and cable grooves, tapered roller bearings, and 7 gauge (4.55 mm) side plates.
- Arbor bottoms contain an 8" (203 mm) diameter ASTM A48 grey iron sheave grooved for 3/4" (19 mm) rope, with sealed precision ball bearings and 10 gauge (3.4 mm) side plates.
- Two 3/4" (19 mm) steel arbor rods have three nuts at top and bottom.
- Each rod has a retaining collar with a thumbscrew incorporating an easy-to-grip plastic knob.
- Front collar is welded to top spreader plate for additional security.
- 12 gauge (2.65 mm) steel spreader plate every 2' (0.6 m) (minimum 2). Labels on the back bar show safety information and proper location for spreader plates.
- 3/8" x 3" (9.5 mm x 76.2 mm) steel back bar, with two guide assemblies.
- Standard polypropylene guide shoes allow for on site adjustment for 6" (154 mm) or 8" (203 mm) set centers; other shoe types and centers are available.
- Arbors are provided with easy-to-read, self-adhesive set numbers.

Order Information

Number	Length*	Capacity+ 4" (102 mm) Weights	Capacity+ 6" (152 mm) Weights	Weight
J-Guide/T-Bar Counterweight Arbor, 6 Line Double Purchase—615 Series				
008-615X06	6' (1.8 m)	841 lbs. (381 kg)	1303 lbs. (473 kg)	113 lbs. (51.2 kg)
008-615X07	7' (2.13 m)	1009 lbs. (458 kg)	1564 lbs. (709 kg)	113 lbs. (51.2 kg)
008-615X08	8' (2.4 m)	1177 lbs. (534 kg)	1825 lbs. (828 kg)	113 lbs. (51.2 kg)
008-615X09	9' (2.75 m)	1345 lbs. (610 kg)	2086 lbs. (946 kg)	113 lbs. (51.2 kg)
008-615X10	10' (3 m)	1514 lbs. (687 kg)	2346 lbs. (1069 kg)	113 lbs. (51.2 kg)
008-615X11	11' (3.35 m)	1682 lbs. (763 kg)	2607 lbs. (1182 kg)	113 lbs. (51.2 kg)
008-615X12	12' (3.65 m)	1850 lbs. (839 kg)	2868 lbs. (1301 kg)	113 lbs. (51.2 kg)
008-615X13	13' (3.9 m)	2018 lbs. (915 kg)	3129 lbs. (1491 kg)	113 lbs. (51.2 kg)
*Overall length is 22-3/8" (568.3 mm) longer than the nominal length. +Average Capacity using J.R. Clancy steel counterweights.				
RWL: RWL is maximum load that can be applied to the arbor which is in "like new" condition and has been properly installed, maintained, and operated.				



J-Guide/T-Bar Arbor
Double Purchase
008-615X04

Number	Length*	Capacity+ 4" (102 mm) Weights	Capacity+ 6" (152 mm) Weights	Weight
J-Guide/T-Bar Counterweight Arbor, 8 Line Double Purchase—815 Series				
008-815X06	6' (1.8 m)	841 lbs. (381 kg)	1303 lbs. (473 kg)	119 lbs. (54 kg)
008-815X07	7' (2.13 m)	1009 lbs. (458 kg)	1564 lbs. (709 kg)	126 lbs. (57.2 kg)
008-815X08	8' (2.4 m)	1177 lbs. (534 kg)	1825 lbs. (828 kg)	133 lbs. (60.3 kg)
008-815X09	9' (2.75 m)	1345 lbs. (610 kg)	2086 lbs. (946 kg)	140 lbs. (63.5 kg)
008-815X10	10' (3 m)	1514 lbs. (687 kg)	2346 lbs. (1069 kg)	147 lbs. (66.7 kg)
008-815X11	11' (3.35 m)	1682 lbs. (763 kg)	2607 lbs. (1182 kg)	154 lbs. (69.85 kg)
008-815X12	12' (3.65 m)	1850 lbs. (839 kg)	2868 lbs. (1301 kg)	161 lbs. (73 kg)
008-815X13	13' (3.9 m)	2018 lbs. (915 kg)	3129 lbs. (1491 kg)	169 lbs. (76.7 kg)
*Overall length is 22-3/8" (568.3 mm) longer than the nominal length. +Average Capacity using J.R. Clancy steel counterweights.				
RWL: RWL is maximum load that can be applied to the arbor which is in "like new" condition and has been properly installed, maintained, and operated.				

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Stage Rigging - Manual Rigging/Arbors & Counterweights

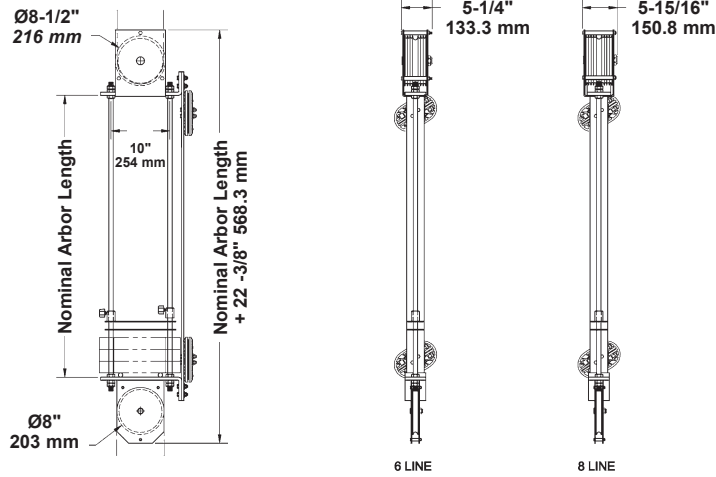
Options

Number	Description	Weight
048-3/4EN	3/4" (19 mm) Eye Nut	2 lbs (0.9 kg)



Eye Nut
048-3/4EN

Dimensions



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TECHNICAL SHEET



J-Guide/T-Bar Single Purchase Arbors

- Used in J-Guide/T-Bar guided systems to hold counterweight that balances the batten load.
- Arbor tops and bottoms are fabricated 1/4" (6.35 mm) steel weldments with a bolt and spacer for hand line termination.
- Arbor tops are punched to accept 8 cables.
- Two 3/4" (19 mm) steel arbor rods have three nuts at top and bottom.
- Each rod has a retaining collar with a thumbscrew incorporating an easy-to-grip plastic knob.
- Front collar is welded to top spreader plate for additional security.
- 12 gauge (2.65 mm) steel spreader plate every 2' (0.6 m) (minimum 2).
Labels on the back bar show safety information and proper location for spreader plates.
- 3/8" x 3" (9.5 mm x 76.2 mm) steel back bar, with two guide assemblies.
- Standard polypropylene guide shoes allow for on site adjustment for 6" (154 mm) or 8" (203 mm) set centers; other shoe types and centers are available.
- Arbors are provided with easy-to-read, self-adhesive set numbers.

Order Information

Number	Length*	Capacity+ 4" (102 mm) Weights	Capacity+ 6" (152 mm) Weights	Weight
007-15X04	4' (1.2 m)	504 lbs. (229 kg)	782 lbs. (335 kg)	56 lbs. (25.4 kg)
007-15X05	5' (1.5 m)	672 lbs. (305 kg)	1043 lbs. (473 kg)	63 lbs. (28.5 kg)
007-15X06	6' (1.8 m)	841 lbs. (381 kg)	1303 lbs. (591 kg)	71 lbs. (32.2 kg)
007-15X07	7' (2.13 m)	1009 lbs. (458 kg)	1564 lbs. (704 kg)	78 lbs. (35.4 kg)
007-15X08	8' (2.4 m)	1177 lbs. (534 kg)	1825 lbs. (828 kg)	85 lbs. (38.5 kg)
007-15X09	9' (2.75 m)	1345 lbs. (610 kg)	2086 lbs. (946 kg)	92 lbs. (41.7 kg)
007-15X10	10' (3 m)	1514 lbs. (687 kg)	2346 lbs. (1064 kg)	99 lbs. (44.9 kg)
007-15X11	11' (3.35 m)	1682 lbs. (763 kg)	2607 lbs. (1182 kg)	106 lbs. (48 kg)
007-15X12	12' (3.65 m)	1850 lbs. (839 kg)	2868 lbs. (1301 kg)	113 lbs. (51.25 kg)
007-15X13	13' (3.9 m)	2018 lbs. (915 kg)	3129 lbs. (1491 kg)	122 lbs. (55.3 kg)

*Overall length is 8" (203 mm) longer than the nominal length.

+Average Capacity using J.R. Clancy steel counterweights.

RWL: RWL is maximum load that can be applied to the arbor which is in "like new" condition and has been properly installed, maintained, and operated.



J-Guide/T-Bar Arbor
Single Purchase
007-15X04

Continued on the following page.

Stage Rigging - Manual Rigging/Arbors & Counterweights

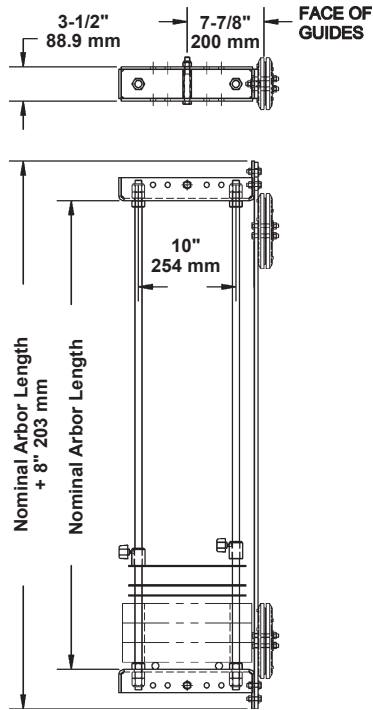
Options

Number	Description	Weight
048-3/4EN	3/4" (19 mm) Eye Nut	2 lbs (0.9 kg)



Eye Nut
048-3/4EN

Dimensions





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TECHNICAL SHEET



Lattice Track Arbors

- Used in single purchase lattice track guided systems to hold counterweight that balances the batten load.
- Arbor tops and bottoms are fabricated 1/2" (12.6 mm) steel plates with brass guides that engage the lattice track.
- Arbor tops have 7 gauge (4.55 mm) steel plates with holes for lift line terminations and bolt and spacer for the hand line termination. Label on top provides safety information and locations for spreader plates.
- Arbor tops are punched to accept 8 cables.
- Two 3/4" (19 mm) steel arbor rods have three nuts at top and bottom.
- Each rod has a retaining collar with a thumbscrew incorporating an easy-to-grip plastic knob.
- 12 gauge (2.65 mm) steel spreader plate every 2' (0.6 m) (minimum 2).
- Lattice track systems are used for individual counterweight sets such as act curtains and fire curtains.
- A dashpot channel (078-DPC) option is available for use with dashpots in fire curtain systems. This channel is factory welded to the top of the arbor to engage the swaged ball on the dashpot line, causing the dashpot to slow the curtain descent during the last portion of its travel.

Order Information

Number	Length*	Capacity+ 4" (102 mm) Weights	Capacity+ 6" (152 mm) Weights	Weight
007-84X04	4' (1.2 m)	504 lbs. (229 kg)	782 lbs. (335 kg)	35 lbs. (15.9 kg)
007-84X05	5' (1.5 m)	672 lbs. (305 kg)	1043 lbs. (473 kg)	38 lbs. (17.2 kg)
007-84X06	6' (1.8 m)	841 lbs. (381 kg)	1303 lbs. (591 kg)	41 lbs. (18.6 kg)
007-84X07	7' (2.13 m)	1009 lbs. (458 kg)	1564 lbs. (704 kg)	44 lbs. (19.9 kg)
007-84X08	8' (2.4 m)	1177 lbs. (534 kg)	1825 lbs. (828 kg)	47 lbs. (21.3 kg)

*Overall length is 6" (152 mm) longer than the nominal length.
+Average Capacity using J.R. Clancy steel counterweights.

RWL: RWL is maximum load that can be applied to the arbor which is in "like new" condition and has been properly installed, maintained, and operated.

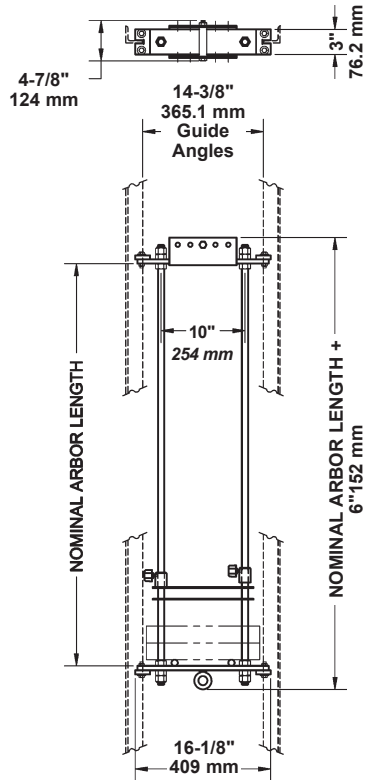
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Stage Rigging - Manual Rigging/Arbors & Counterweights

Options

Number	Description
078-DPC	Dashpot Channel

Dimensions



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TECHNICAL SHEET



Wire Guide Arbors

- Used in wire-guided systems to hold counterweight that balances the batten load.
- Arbor tops and bottoms are fabricated 1/2" (12.6 mm) steel plates with 3/8" (9.5 mm) holes for guide wires located on 15" (381 mm) centers.
- Arbor tops have 7 gauge (4.55 mm) steel plates with holes for lift line terminations and bolt and spacer for the hand line termination. Label on top provides safety information and locations for spreader plates.
- Arbor tops are punched to accept 8 cables.
- Two 3/4" (19 mm) steel arbor rods have three nuts at top and bottom.
- Each rod has a retaining collar with a thumbscrew incorporating an easy-to-grip plastic knob.
- 12 gauge (2.65 mm) steel spreader plate every 2' (0.6 m) (minimum 2).

Order Information

Number	Length*	Capacity+ 4" (102 mm) Weights	Capacity+ 6" (152 mm) Weights	Weight
007-85X04	4' (1.2 m)	504 lbs. (229 kg)	782 lbs. (335 kg)	34 lbs. (13.6 kg)
007-85X05	5' (1.5 m)	672 lbs. (305 kg)	1043 lbs. (473 kg)	37 lbs. (16.8 kg)
007-85X06	6' (1.8 m)	841 lbs. (381 kg)	1303 lbs. (591 kg)	40 lbs. (18.1 kg)
007-85X07	7' (2.13 m)	1009 lbs. (458 kg)	1564 lbs. (704 kg)	43 lbs. (19.5 kg)
007-85X08	8' (2.4 m)	1177 lbs. (534 kg)	1825 lbs. (828 kg)	46 lbs. (20.9 kg)

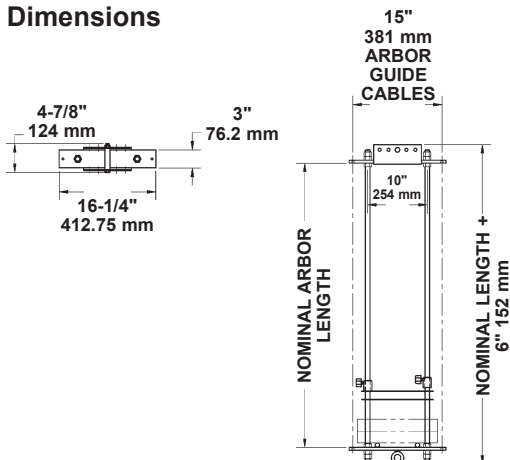
*Overall length is 5-9/16" (141.29 mm) longer than the nominal length.
+Average Capacity using J.R. Clancy steel counterweights.

RWL: RWL is maximum load that can be applied to the arbor which is in "like new" condition and has been properly installed, maintained, and operated.



Wire Guide Arbor
Single Purchase
007-85X04

Dimensions



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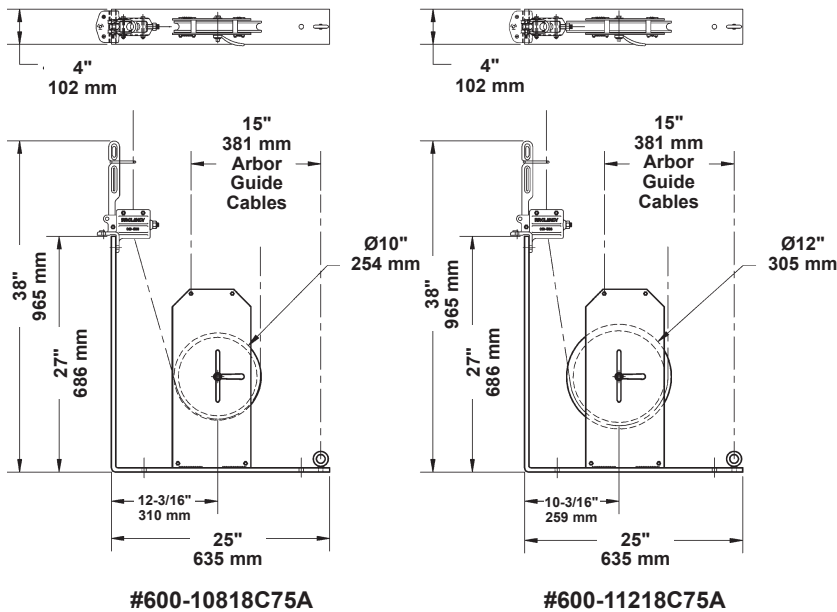
TECHNICAL SHEET



Adjustable Combination Floor Blocks

- Used with individual wire-guided, J-Guide, or T-Bar sets.
- Rope lock (010-533R) and floor block in a single unit.
- ASTM Class 30 grey iron sheave, grooved for 3/4" (19 mm) rope.
- Sealed precision ball bearings.
- Incorporates tie off points for guide wires.
- Sheave position may be adjusted to properly tension the hand line.

Dimensions



Adjustable Combination Floor Block
600-10818C75A

Order Information

Number	Description	Weight
600-10818C75A	10" (254 mm)	71 lbs. (32.2 kg)
600-11218C75A	12" (305 mm)	80 lbs. (36.3 kg)



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TECHNICAL SHEET

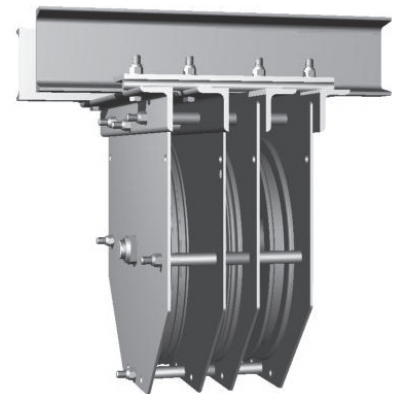


Custom Blocks

- We can design custom blocks to meet your specific requirements.
- Nylon, steel, or ASTM Class 30 grey iron sheaves are available.
- Blocks may contain one or more sheaves. Sheaves can be mounted on a single axle or mounted in a tandem configuration for use in upgrading historic theaters and for use with drum hoists that must be mounted close to the head blocks.
- Base angles or other mounting methods are available to meet your requirements.

Ordering Information

Please provide specifications and a drawing or sketch showing your requirements.



Custom Block



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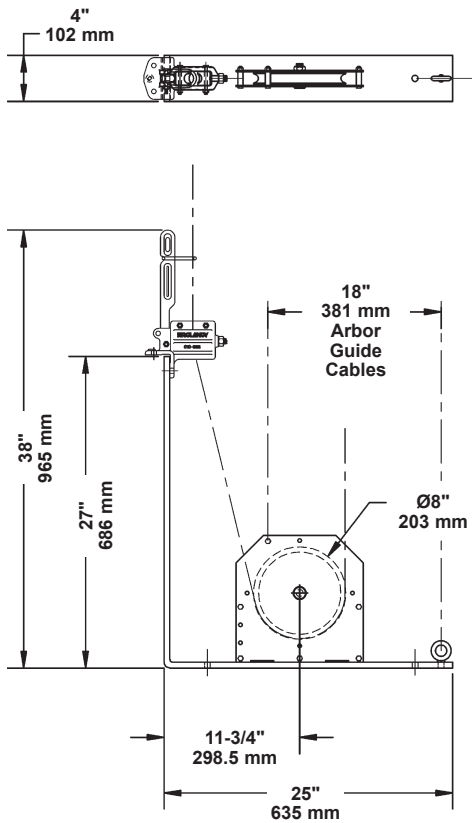
TECHNICAL SHEET



Fixed Combination Floor Blocks

- Used with individual wire-guided, J-Guide, or T-Bar sets.
- Economical, fixed floor block for use on sets with limited travel.
- Rope lock (010-533R) and floor block in a single unit.
- 8" (203 mm) diameter nylon sheave or ASTM Class 30 grey iron sheave, grooved for 3/4" (19 mm) rope.
- Sealed precision 17 mm (.67") ball bearings.
- Incorporates tie off points for guide wires.

Dimensions



Fixed Combination Floor Block
600-10818C75

Order Information

Number	Sheave Diameter	Sheave Material	Weight
600-10818C75	8" (203 mm)	Cast Iron	49 lbs. (22.2 kg)
600-10818N75	12" (305 mm)	Nylon	46 lbs. (20.9 kg)



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Head Block - 55 Series

Upright Head Block 55 Series

General Information

- Upright style, normally supported by two structural I-beams.
- ASTM Class 30 grey iron or nylon sheave.
- Equal pitch diameter on rope and cable grooves for smooth operation.
- Tapered roller bearings.
- Base angle legs turned in to allow close mounting centers. Notches allow clear passage of all cables.
- 10 gauge (3.41 mm) side plates fully enclose sheave; 16" (406 mm) blocks have 7 gauge (4.55 mm) side plates.
- Side plates are bolted and welded to the base angles for extra strength.
- Six spacers between the side plates, three prevent cables from escaping the sheave grooves.
- Base angles punched with a hole pattern for easy installations.
- Mounting clips are available, please provide steel dimensions.



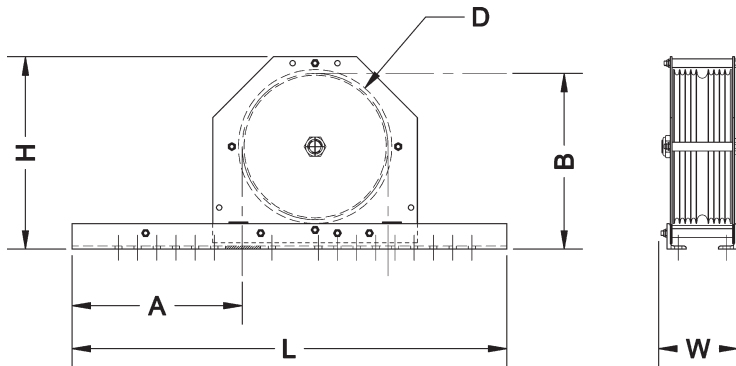
Order Information

Sheave Diameter	Rope Diameter	Lines	Bearings	Cast Iron Product Code	RWL	Weight	Nylon Product Code	RWL	Weight
Single Purchase									
8" (203 mm)	3/4" (19 mm)	6 @ 1/4" (6.35 mm)	1" (25.44 mm)	100-60855C25	1300 lbs. (590 kg)	46 lbs. (20.9 kg)	-	-	-
8" (203 mm)	3/4" (19 mm)	8 @ 1/4" (6.35 mm)	1" (25.44 mm)	100-80855C25	1300 lbs. (590 kg)	52 lbs. (23.6 kg)	-	-	-
12" (305 mm)	3/4" (19 mm)	6 @ 1/4" (6.35 mm)	1" (25.44 mm)	100-61255C25	3000 lbs. (1361 kg)	72 lbs. (32.6 kg)	100-61255N25	3000 lbs. (1361 kg)	40 lbs. (18.1 kg)
12" (305 mm)	3/4" (19 mm)	8 @ 1/4" (6.35 mm)	1" (25.44 mm)	100-81255C25	3000 lbs. (1361 kg)	79 lbs. (35.8 kg)	100-81255N25	3000 lbs. (1361 kg)	41 lbs. (18.6 kg)
12" (203 mm)	3/4" (19 mm)	10 @ 1/4" (6.35 mm)	1" (25.44 mm)	100-101255C25	3000 lbs. (1361 kg)	86 lbs. (39 kg)	-	-	-
16" (406 mm)	1" (25.4 mm)	6 @ 3/8" (9.5 mm)	1-1/2" (38 mm)	100-61655C381	3600 lbs. (1633 kg)	139 lbs. (63 kg)	-	-	-
16" (406 mm)	1" (25.4 mm)	8 @ 3/8" (9.5 mm)	1-1/2" (38 mm)	100-81655C381	3600 lbs. (1633 kg)	147 lbs. (66.7 kg)	-	-	-
Double Purchase									
12" (305 mm)	3/4" (19 mm)	6 @ 1/4" (6.35 mm)	1" (25.44 mm)	100-61255C25D	3000 lbs. (1361 kg)	72 lbs. (32.6 kg)	100-61259N25D	3000 lbs. (1361 kg)	40 lbs. (18.1 kg)
12" (305 mm)	3/4" (19 mm)	8 @ 1/4" (6.35 mm)	1" (25.44 mm)	100-81255C25D	3000 lbs. (1361 kg)	79 lbs. (35.8 kg)	100-81259N25D	3000 lbs. (1361 kg)	41 lbs. (18.6 kg)
<p>Double Purchase: Add a "D" suffix to the product code for a double purchase head block.</p> <p>Wire Guide Blocks: Add a "W" suffix to the product code for a block with tieoffs for arbor wire guides.</p> <p>Tieoffs: Tieoffs for wire guided clews are also available.</p> <p>RWL: The recommended working load (RWL) is maximum load that can be applied to a block which is in "like new" condition and has been properly installed, maintained and operated. The mounting of the head block has a major effect on the RWL, as shown in the tables on this product's specific web page.</p>									

Continued on the following page.

Stage Rigging - Manual Rigging/Blocks

Dimensions



Nominal Sheave Diameter	Lines	Dim. L	Dim. H	Dim. W	Dim A	Dim B	Dim. D (Sheave Diameter)
8" (203 mm)	6	32" (813 mm)	11-7/16" (290.5 mm)	5-3/8" (137 mm)	15-1/16" (383 mm)	10-1/8" (257 mm)	8-1/2" (216 mm)
8" (203 mm)	8	32" (813 mm)	11-7/16" (290.5 mm)	6-3/8" (162 mm)	15-1/16" (383 mm)	10-1/8" (257 mm)	8-1/2" (216 mm)
12" (305 mm)	6	34" (864 mm)	15" (381 mm)	5-3/8" (137 mm)	13-5/16" (338 mm)	13-3/4" (349 mm)	12" (305 mm)
12" (305 mm)	8	34" (864 mm)	15" (381 mm)	6-3/8" (162 mm)	13-5/16" (338 mm)	13-3/4" (349 mm)	12" (305 mm)
12" (305 mm)	10	34" (864 mm)	15" (381 mm)	7-1/4" (184 mm)	13-5/16" (338 mm)	13-3/4" (349 mm)	12" (305 mm)
16" (406 mm)	6*	34" (864 mm)	19" (483 mm)	6-5/8" (168 mm)	11-7/16" (290.5 mm)	17-11/16" (449 mm)	16" (406 mm)
16" (406 mm)	8*	34" (864 mm)	19" (483 mm)	7-5/8" (194 mm)	11-7/16" (290.5 mm)	17-11/16" (449 mm)	16" (406 mm)

*Standard 16" (406 mm) sheave grooving is for 3/8" (9.5 mm) cable and 1" (25.4 mm) rope. 1/4" (6.35 mm) cable and 3/4" (19 mm) rope are available.



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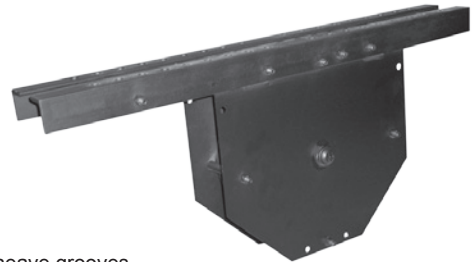


Head Block - 59 Series

Underhung Head Block 59 Series

General Information

- Underhung style, normally supported by two structural I-beams.
- ASTM Class 30 grey iron or nylon sheave.
- Equal pitch diameter on rope and cable grooves for smooth operation.
- Tapered roller bearings.
- Base angle legs turned in to allow close mounting centers.
- 10 gauge (3.41 mm) side plates fully enclose sheave; 16" (406 mm) blocks have 7 gauge (4.55 mm) side plates.
- Side plates are bolted and welded to the base angles for extra strength.
- Six spacers between the side plates, three prevent cables from escaping the sheave grooves.
- Base angles punched with a hole pattern for easy installations.
- Mounting clips available, please provide steel dimensions.
- Underhung blocks may need to be welded to head beams after final alignment. Clip angles are recommended for double beam mounting. Mounting with clips or to single beams will require welding. Consult the factory for specific information.



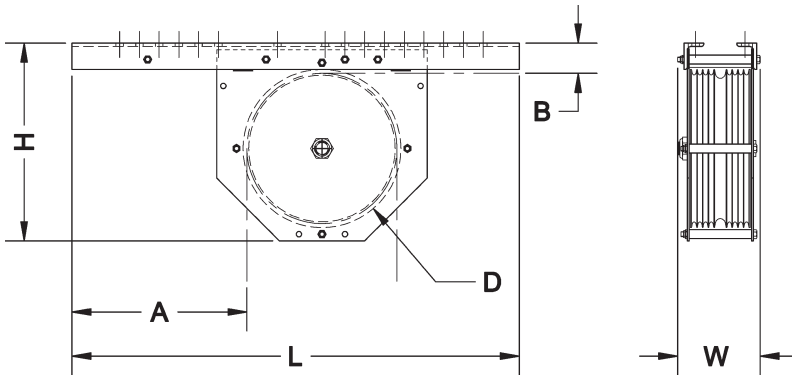
Order Information

Sheave Diameter	Rope Diameter	Lines	Bearings	Cast Iron Product Code	RWL	Weight	Nylon Product Code	RWL	Weight
Single Purchase									
8" (203 mm)	3/4" (19 mm)	6 @ 1/4" (6.35 mm)	1" (25.44 mm)	100-60859C25	1300 lbs. (590 kg)	46 lbs. (20.9 kg)	-	-	-
8" (203 mm)	3/4" (19 mm)	8 @ 1/4" (6.35 mm)	1" (25.44 mm)	100-80859C25	1300 lbs. (590 kg)	52 lbs. (23.6 kg)	-	-	-
12" (305 mm)	3/4" (19 mm)	6 @ 1/4" (6.35 mm)	1" (25.44 mm)	100-61259C25	3000 lbs. (1361 kg)	72 lbs. (32.6 kg)	100-61259N25	3000 lbs. (1361 kg)	40 lbs. (18.1 kg)
12" (305 mm)	3/4" (19 mm)	8 @ 1/4" (6.35 mm)	1" (25.44 mm)	100-81259C25	3000 lbs. (1361 kg)	79 lbs. (35.8 kg)	100-81259N25	3000 lbs. (1361 kg)	41 lbs. (18.6 kg)
12" (203 mm)	3/4" (19 mm)	10 @ 1/4" (6.35 mm)	1" (25.44 mm)	100-101259C25	3000 lbs. (1361 kg)	86 lbs. (39 kg)	-	-	-
16" (406 mm)	1" (25.4 mm)	6 @ 3/8" (9.5 mm)	1-1/2" (38 mm)	100-61659C381	3600 lbs. (1633 kg)	139 lbs. (63 kg)	-	-	-
16" (406 mm)	1" (25.4 mm)	8 @ 3/8" (9.5 mm)	1-1/2" (38 mm)	100-81659C381	3600 lbs. (1633 kg)	147 lbs. (66.7 kg)	-	-	-
Double Purchase									
12" (305 mm)	3/4" (19 mm)	6 @ 1/4" (6.35 mm)	1" (25.44 mm)	100-61259C25D	3000 lbs. (1361 kg)	72 lbs. (32.6 kg)	100-61259N25D	3000 lbs. (1361 kg)	40 lbs. (18.1 kg)
12" (305 mm)	3/4" (19 mm)	8 @ 1/4" (6.35 mm)	1" (25.44 mm)	100-81259C25D	3000 lbs. (1361 kg)	79 lbs. (35.8 kg)	100-81259N25D	3000 lbs. (1361 kg)	41 lbs. (18.6 kg)
<p>Double Purchase: Add a "D" suffix to the product code for a double purchase head block.</p> <p>Wire Guide Blocks: Add a "W" suffix to the product code for a block with tieoffs for arbor wire guides.</p> <p>Tieoffs: Tieoffs for wire guided clews are also available.</p> <p>RWL: The recommended working load (RWL) is maximum load that can be applied to a block which is in "like new" condition and has been properly installed, maintained and operated. The mounting of the head block has a major effect on the RWL, as shown in the tables on this product's specific web page.</p>									

Continued on the following page.

Stage Rigging - Manual Rigging/Blocks

Dimensions



Nominal Sheave Diameter	Lines	Dim. L	Dim. H	Dim. W	Dim A	Dim B	Dim. D (Sheave Diameter)
8" (203 mm)	6	32" (813 mm)	11-7/16" (290.5 mm)	5-3/8" (137 mm)	15-1/16" (383 mm)	2-3/16" (11 mm)	8-1/2" (216 mm)
8" (203 mm)	8	32" (813 mm)	11-7/16" (290.5 mm)	6-3/8" (162 mm)	15-1/16" (383 mm)	2-3/16" (11 mm)	8-1/2" (216 mm)
12" (305 mm)	6	34" (864 mm)	15" (381 mm)	5-3/8" (137 mm)	13-5/16" (338 mm)	2-3/16" (11 mm)	12" (305 mm)
12" (305 mm)	8	34" (864 mm)	15" (381 mm)	6-3/8" (162 mm)	13-5/16" (338 mm)	2-3/16" (11 mm)	12" (305 mm)
12" (305 mm)	10	34" (864 mm)	15" (381 mm)	7-1/4" (184 mm)	13-5/16" (338 mm)	2-3/16" (11 mm)	12" (305 mm)
16" (406 mm)	6*	34" (864 mm)	19" (483 mm)	6-5/8" (168 mm)	11-7/16" (290.5 mm)	2-3/16" (11 mm)	16" (406 mm)
16" (406 mm)	8*	34" (864 mm)	19" (483 mm)	7-5/8" (194 mm)	11-7/16" (290.5 mm)	2-3/16" (11 mm)	16" (406 mm)

*Standard 16" (406 mm) sheave grooving is for 3/8" (9.5 mm) cable and 1" (25.4 mm) rope. 1/4" (6.35 mm) cable and 3/4" (19 mm) rope are available.



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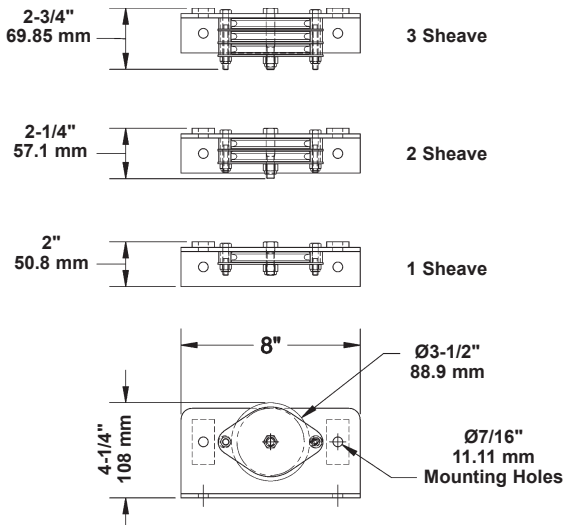
Light Duty Blocks

- For use in light duty applications such as supporting fire lines.
- 3" (76 mm) diameter steel sheaves with ball bearing.
- Formed steel base allows vertical or horizontal mounting.
- Available with 3/8" (9.5 mm) or 1/8" (3.175 mm) groove.



Light Duty Block
013-175

Dimensions



Order Information

Number	Description	RWL	Weight
Grooved for 3/8" (9.5 mm) Rope			
013-175	3" (76 mm, 1 Sheave for 3/8" (9.5 mm) Rope	50 lbs. (27.6 kg)	3.5 lbs. (1.6 kg)
013-275	3" (76 mm, 2 Sheave for 3/8" (9.5 mm) Rope	100 lbs. (45.3 kg)	3.5 lbs. (1.6 kg)
013-375	3" (76 mm, 3 Sheave for 3/8" (9.5 mm) Rope	150 lbs. (68 kg)	3.5 lbs. (1.6 kg)
Grooved for 1/8" (3.175 mm) Rope			
013-176	3" (76 mm, 1 Sheave for 1/8" (3.175 mm) Rope	50 lbs. (27.6 kg)	3.5 lbs. (1.6 kg)
013-276	3" (76 mm, 2 Sheave for 1/8" (3.175 mm) Rope	100 lbs. (45.3 kg)	3.5 lbs. (1.6 kg)
013-376	3" (76 mm, 3 Sheave for 1/8" (3.175 mm) Rope	150 lbs. (68 kg)	3.5 lbs. (1.6 kg)
RWL: RWL is maximum load that can be applied to a block which is in "like new" condition and has been properly installed, maintained, and operated.			



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Loft Block Idlers

- Idlers may be added to underhung loft blocks to carry the weight of the cables and prevent rubbing against adjacent block side plates. They are not intended to carry line loads or to act as deflector or mule blocks.
- Idler assemblies consist of one or two 3-1/2" (89 mm) diameter, 3 line nylon sheaves mounted on the side of the loft block in a steel housing.
- Idler sheaves have 1/4" (6.3 mm) cable grooves with a 3/8" (9.5 mm) shaft in a 12-gauge (2.65 mm) steel housing with two 1/4" (6.3 mm) bolts and pipe spacers to mount the housing and captivate the cables in the grooves.
- When using idler pulleys, the loft block closest to the head block should be a full size multi-line block with grooves for all of the lift lines. This ensures that fleet angle and other alignment stresses are not transferred to the idler pulleys.

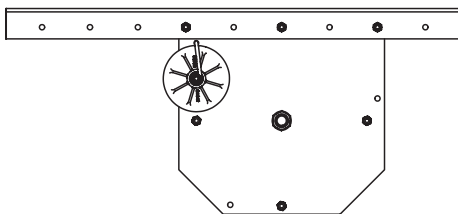
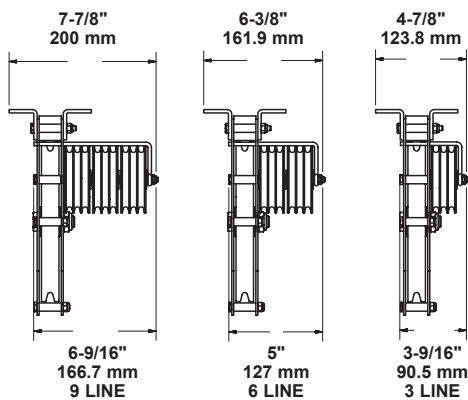
Order Information

Add Idlers to 8" (203 mm) Underhung Blocks —
Change last letter to "I3", "I6", or "I9" to indicate 3, 6, or 9 idler grooves.



Underhung Loft Block with Idlers

Dimensions



BLOCK W/ IDLERS ON STANDARD SIDE



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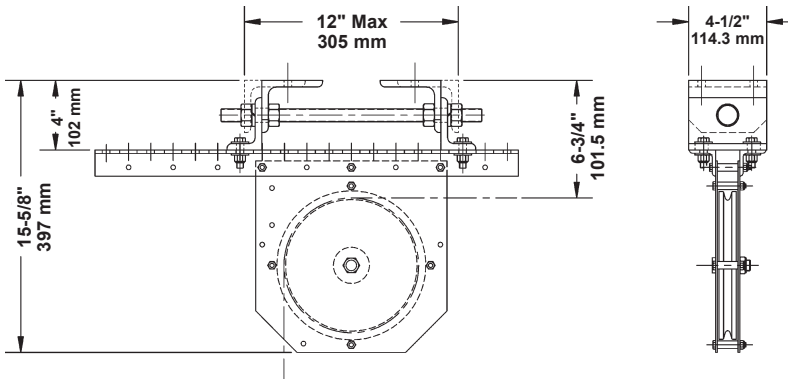
Loft Block Pivot Brackets

- Pivot brackets are required for mounting on loft beams with more than 1-1/2° of slope.
- Use for beams 4" – 8-1/2" (102 – 216 mm) wide for single line 55 series blocks.
- Mounting clips are included, please specify beam flange thickness.
- Pivot brackets must be welded to loft beams after final alignment – consult the factory for specific information.



Underhung Loft Block
with Pivot Bracket
070-PIVOT

Dimensions



Order Information

Number	Description	RWL	Weight
070-PIVOT	Pivot Bracket	-	12 lbs. (5.4 kg)



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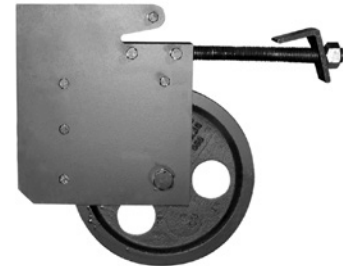
2017-01

TECHNICAL SHEET



Loft Blocks, Underhung - 19 Series

- Underhung style, supported by a single structural beam.
- Nylon or ASTM Class 30 grey iron sheaves.
- Sealed precision ball bearings (Single line, 8" (203 mm) nominal sheave only) or tapered roller bearings.
- 10 gauge (3.41 mm) side plates.
- 3/4" (19 mm) drawbolt and steel clip allow a 5" (127 mm) grip adjustment to accommodate a range of beam sizes.
- A minimum of three spacers between the side plates; to prevent cables from escaping the sheave grooves.



Loft Block

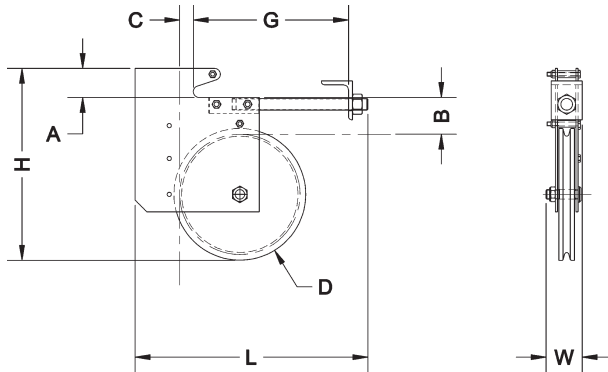
Order Information

Sheave Diameter	Lines	Bearings	Cast Iron Product Code	RWL	Weight	Nylon Product Code	RWL	Weight
Cable Blocks (1/4" [6.35 mm] cable)								
8-1/2" (216 mm)	1	17 mm BB	200-10819C25R	500 lbs. (227 kg)	14 lbs. (6.35 kg)	200-10819N25R	500 lbs. (227 kg)	9 lbs. (4 kg)
8-1/2" (216 mm)	2	17 mm BB	200-20819C25R	500 lbs. (227 kg)	14 lbs. (6.35 kg)	200-20819N25R	500 lbs. (227 kg)	10 lbs. (4.5 kg)
8-1/2" (216 mm)	1	17 mm TRB	200-10819C25RT	500 lbs. (227 kg)	14 lbs. (6.35 kg)	200-10819N25RT	500 lbs. (227 kg)	9 lbs. (4 kg)
8-1/2" (216 mm)	2	17 mm TRB	200-20819C25RT	500 lbs. (227 kg)	14 lbs. (6.35 kg)	200-20819N25RT	500 lbs. (227 kg)	10 lbs. (4.5 kg)
8-1/2" (216 mm)	4	1" TRB (25.4 mm)	200-40819C25R	1300 lbs. (590 kg)	34 lbs. (15.4 kg)	200-40819N25R	1300 lbs. (590 kg)	25 lbs. (11.3 kg)
8-1/2" (216 mm)	8	1" TRB (25.4 mm)	200-80819C25R	1300 lbs. (590 kg)	44 lbs. (20 kg)	200-80819N25R	1300 lbs. (590 kg)	28 lbs. (12.7 kg)
12*" (305 mm)	1	1" TRB (25.4 mm)	200-11219C25R	700 lbs. (317 kg)	47 lbs. (21.3 kg)	-	-	-
Cable Blocks (3/16" [4.76 mm] cable)								
8-1/2" (216 mm)	1	17 mm TRB	-	-	-	200-10819N19R	500 lbs. (227 kg)	9 lbs. (4 kg)
8-1/2" (216 mm)	1	17 mm TRB	-	-	-	200-10819N19RT	500 lbs. (227 kg)	9 lbs. (4 kg)
8-1/2" (216 mm)	8	1" TRB (25.4 mm)	-	-	-	200-80819N19R	1300 lbs. (590 kg)	28 lbs. (12.7 kg)
Cable Blocks (3/4" [19 mm] cable)								
8" (203 mm)	1	17 mm BB	200-10819C75R	500 lbs. (227 kg)	14 lbs. (6.35 kg)	200-10819N75R	700 lbs. (317 kg)	9 lbs. (4 kg)
8" (203 mm)	1	17 mm TRB	200-10819C75RT	500 lbs. (227 kg)	14 lbs. (6.35 kg)	200-10819N75RT	700 lbs. (317 kg)	9 lbs. (4 kg)
<p>*Available for 1/4" (6.35 mm) or 3/8" (9.5 mm) cable, specify.</p> <p>19 Series blocks grip the bottom flanges of beams. Blocks have a 3/8" (9.5 mm) throat with a grip range of 4" - 9" (102 - 229 mm). Change the suffix from "R" to "U" for a 3/4" (19 mm) throat with a 4 1/8" - 10" (104.8 - 254 mm) grip range.</p> <p>To add Idlers to 8" (203 mm) Underhung Blocks — Change last letter to "I3" or "I6" to indicate 3 or 6 idler grooves.</p> <p>RWL: RWL is maximum load that can be applied to a block which is in "like new" condition and has been properly installed, maintained, and operated.</p>								

Continued on the following page.

Stage Rigging - Manual Rigging/Blocks

Dimensions



Nominal Sheave Diameter	Throat Depth	Dim. L	Dim. H	Dim. W	Dim. A	Dim. B	Dim. C	Dim. D Sheave Diameter	Dim. G Grip Range
8" (203 mm)	3/8" (9.5 mm)	15" (381 mm)	12-1/4" (311 mm)	2-5/16" (59 mm)	1-3/4" (44.5 mm)	2-5/16" (58.75 mm)	2" (50.8 mm)	8-9/16" (217 mm)	4" - 9" (102 - 229 mm)
8" (203 mm)	3/4" (19 mm)	12-3/8" (314 mm)	12-3/8" (314 mm)	2-5/16" (59 mm)	1-7/8" (47.6 mm)	2-5/16" (58.75 mm)	1" (25.4 mm)	8-9/16" (217 mm)	4-1/8" - 10" (105 - 254 mm)
12" (305 mm)	3/8" (9.5 mm)	19" (483 mm)	17" (432 mm)	3-1/4" (83 mm)	1-3/4" (44.5 mm)	2-9/16" (65 mm)	5-7/16" (138 mm)	12" (305 mm)	4-1/2" - 10" (114 - 254 mm)
12" (305 mm)	3/8" (9.5 mm)	19" (483 mm)	17" (432 mm)	3-1/4" (83 mm)	1-7/8" (47.6 mm)	2-7/16" (62 mm)	4-3/8" (106.4 mm)	12" (305 mm)	5-1/2" - 11" (140 - 279 mm)



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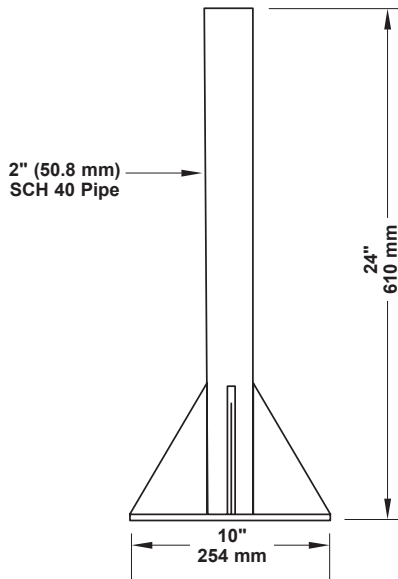
TECHNICAL SHEET



Mule Block Swivel & Stands

- Swivels may be added to mule blocks to allow swivel and pivot to meet site conditions.
- Stands support mule blocks where other structural steel is not available.
- Mule block stands must be welded in place after alignment – consult the factory for specific information.

Dimensions



Mule Block Swivel Stand
5C2-850S

Order Information

Number	Description	Weight
5C2-SWIVEL	8" (203 mm) Mule Block Swivel	15 lbs. (6.8 kg)
5C2-850S	Mule Block Stand for 8" (203 mm), 1 & 2 line blocks	30 lbs. (13.6 kg)
5C2-850HS	Mule Block Stand for 8" (203 mm), 4 & 8 line blocks	50 lbs. (22.6 kg)



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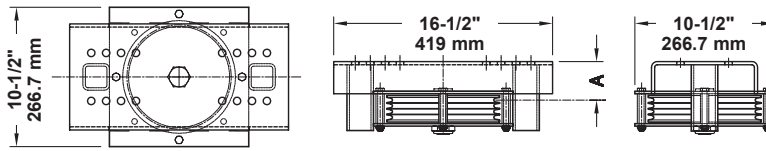
TECHNICAL SHEET

Mule Blocks - 12 Series, 8" (203 mm) Blocks



- Used to divert the cables around obstructions or change direction of travel.
- ASTM Class 30 grey iron sheave.
- Sealed precision ball bearings or tapered roller bearings.
- 7 gauge (4.55 mm) side plates fully enclose sheave.
- 3 gauge (6 mm) formed channel base.
- Four spacers between the side plates prevent cables from escaping the sheave grooves.
- **Mule blocks must be welded in place after final alignment** – consult the factory for specific information.

Dimensions





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Order Information

Number	Grooving	RWL Per Line	Max Total RWL 180°	Max Total RWL 90°	Height	"A"
8" (203 mm) Mule Blocks—Cast Iron Sheave w/ Ball Bearings						
500-10812C25	(1) 1/4" Cable (6.35 mm)	500 lbs. (227 kg)	500 lbs. (227 kg)	500 lbs. (227 kg)	4-1/16" (103.2 mm)	3-1/16" (77.8 mm)
500-20812C19	(2) 3/16" Cables (6.35 mm)	400 lbs. (181 kg)	800 lbs. (363 kg)	800 lbs. (363 kg)	4-1/16" (103.2 mm)	-
500-20812C25	(2) 1/4" Cables (6.35 mm)	500 lbs. (227 kg)	1000 lbs. (453 kg)	1000 lbs. (453 kg)	4-1/16" (103.2 mm)	-
8" (203 mm) Mule Blocks—Cast Iron Sheave w/ Tapered Roller Bearings						
500-10812C25T	(1) 1/4" Cable (6.35 mm)	500 lbs. (227 kg)	500 lbs. (227 kg)	500 lbs. (227 kg)	4-1/16" (103.2 mm)	3-1/16" (77.8 mm)
500-20812C19T	(2) 3/16" Cables (4.76 mm)	400 lbs. (181 kg)	800 lbs. (363 kg)	800 lbs. (363 kg)	4-1/16" (103.2 mm)	-
500-20812C25T	(2) 1/4" Cables (6.35 mm)	500 lbs. (227 kg)	1000 lbs. (453 kg)	1000 lbs. (453 kg)	4-1/16" (103.2 mm)	-
500-40812C19	(4) 3/16" Cables (4.76 mm)	400 lbs. (181 kg)	1400 lbs. (635 kg)	1600 lbs. (726 kg)	5-1/4" (133.3 mm)	2-15/16" (74.6 mm)
500-40812C25	(4) 1/4" Cables (6.35 mm)	500 lbs. (227 kg)	1400 lbs. (635 kg)	2000 lbs. (907 kg)	5-1/4" (133.3 mm)	2-15/16" (74.6 mm)
500-80812C19	(8) 3/16" Cables (4.76 mm)	700 lbs. (317 kg)	1400 lbs. (635 kg)	2000 lbs. (907 kg)	6-13/16" (173 mm)	-
500-80812C25	(8) 1/4" Cables (6.35 mm)	500 lbs. (227 kg)	1400 lbs. (635 kg)	2000 lbs. (907 kg)	6-13/16" (173 mm)	-

Dimension "A" is from the base to the center of the first block groove.

RWL: RWL is maximum load that can be applied to a block which is in "like new" condition and has been properly installed, maintained, and operated.

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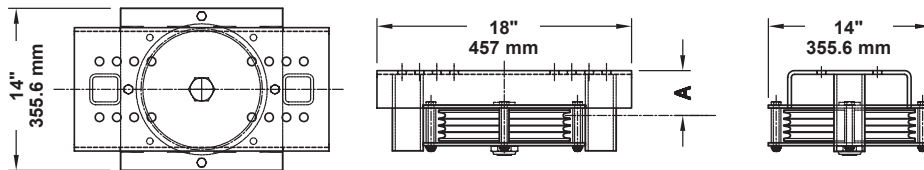
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Mule Blocks - 12 Series, 12" (305 mm) Blocks



- Used to divert the cables around obstructions or change direction of travel.
- ASTM Class 30 grey iron or nylon sheave.
- Tapered roller bearings.
- 7 gauge (4.55 mm) side plates fully enclose sheave.
- 3 gauge (6 mm) formed channel base.
- Four spacers between the side plates prevent cables from escaping the sheave grooves.
- **Mule blocks must be welded in place after final alignment** – consult the factory for specific information.

Dimensions



Order Information

Number	Grooving	RWL Per Line	Max Total RWL 180°	Max Total RWL 90°	Height	"A"
12" (305 mm) Mule Blocks—Cast Iron						
500-11212C25	(1) 1/4" Cable (6.35 mm)	700 lbs. (317 kg)	700 lbs. (317 kg)	700 lbs. (317 kg)	4-1/16" (103 mm)	3-3/16" (96.8 mm)
500-11212C31	(1) 5/16" Cable (7.9 mm)	900 lbs. (408 kg)	900 lbs. (408 kg)	900 lbs. (408 kg)	4-1/16" (103 mm)	3-3/16" (96.8 mm)
500-11212C38	(1) 3/8" Cable (9.5 mm)	1000 lbs. (453 kg)	1000 lbs. (453 kg)	1000 lbs. (453 kg)	4-1/16" (103 mm)	3-3/16" (96.8 mm)
500-21212C25	(2) 1/4" Cables (6.35 mm)	700 lbs. (317 kg)	1400 lbs. (635 kg)	1400 lbs. (635 kg)	4-1/16" (103 mm)	3" (76 mm)
500-41212C25	(4) 1/4" Cables (6.35 mm)	700 lbs. (317 kg)	1400 lbs. (635 kg)	2000 lbs. (907 kg)	5-1/4" (133 mm)	2-7/8" (73 mm)
500-81212C25	(8) 1/4" Cables (6.35 mm)	700 lbs. (317 kg)	1400 lbs. (635 kg)	2000 lbs. (907 kg)	6-13/16" (173 mm)	2-7/8" (73 mm)
12" (305 mm) Mule Blocks—Nylon						
500-11212N25	(1) 1/4" Cable (6.35 mm)	875 lbs. (397 kg)	875 lbs. (397 kg)	875 lbs. (397 kg)	4-1/16" (103 mm)	3-3/16" (96.8 mm)

Dimension "A" is from the base to the center of the first block groove.

RWL: RWL is maximum load that can be applied to a block which is in "like new" condition and has been properly installed, maintained, and operated.



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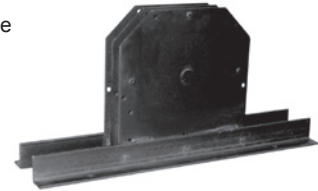
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TECHNICAL SHEET

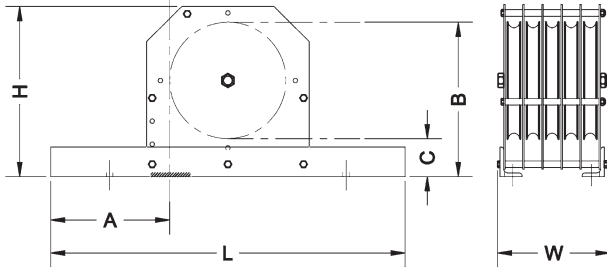


Multi-Sheave Blocks

- Blocks may be mounted upright or underhung.
- Blocks with three or more sheaves are constructed with the base angle legs turned in to allow close mounting centers. Base angles are notched to clear ropes and cables.
- Nylon or ASTM Class 30 grey iron sheaves.
- 17 mm (.67") sealed precision ball bearings.
- 12 gauge (2.65 mm) side plates located outside and between sheaves.



Upright Multi-Sheave Block
400-20855N75



Dimensions

Nominal Sheave Diameter	Lines	Dim. L	Dim. H	Dim. W	Dim. A	Dim. B	Dim. C	Dim. D (Sheave Diameter)
8" (203 mm)	2+	24" (610 mm)	11-1/2" (292 mm)	5-11/16" (144.5 mm)	8-1/16" (383 mm)	10-7/16" (265 mm)	2-9/16" (65 mm)	8" (203 mm)
8" (203 mm)	3	24" (610 mm)	11-1/2" (292 mm)	5" (127 mm)	8-1/16" (383 mm)	10-7/16" (265 mm)	2-9/16" (65 mm)	8" (203 mm)
8" (203 mm)	4	24" (610 mm)	11-1/2" (292 mm)	6-1/2" (165 mm)	8-1/16" (383 mm)	10-7/16" (265 mm)	2-9/16" (65 mm)	8" (203 mm)
8" (203 mm)	5	24" (610 mm)	11-1/2" (292 mm)	7-5/8" (193.7 mm)	8-1/16" (383 mm)	10-7/16" (265 mm)	2-9/16" (65 mm)	8" (203 mm)

*Dimension to 3/4" (19 mm) dia rope C/L when block is used in underhung application.
+2 Line block has base angles turned outward.



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Order Information

Sheave Diameter	Lines	Bearings	Cast Iron Product Code	RWL	Weight	Nylon Product Code	RWL	Weight
8-5/8" (219 mm)	2	17 mm BB	400-20855C75	900 lbs. (408 kg)	27 lbs. (12.25 kg)	400-20855N75	900 lbs. (408 kg)	21 lbs. (9.5 kg)
8-5/8" (219 mm)	3	17 mm BB	400-30855C75	900 lbs. (408 kg)	35 lbs. (15.9 kg)	400-30855N75	900 lbs. (408 kg)	26 lbs. (11.8 kg)
8-5/8" (219 mm)	4	17 mm BB	400-40855C75	900 lbs. (408 kg)	42 lbs. (19 kg)	400-40855N75	900 lbs. (408 kg)	31 lbs. (14 kg)
8-5/8" (219 mm)	5	17 mm BB	400-50855C75	900 lbs. (408 kg)	50 lbs. (22.7 kg)	400-50855N75	900 lbs. (408 kg)	36 lbs. (16.3 kg)

Change the 3rd character from "R" (3/4" (19 mm) rope) to "C" for 1/4" (6.35 mm) cable.

RWL: RWL is maximum load that can be applied to a block which is in "like new" condition and has been properly installed, maintained, and operated.

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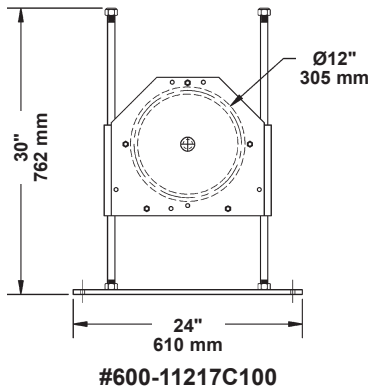
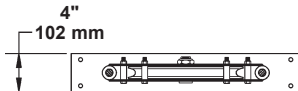
TECHNICAL SHEET



Sliding Tension Floor Blocks

- Used with manual fire curtains to provide proper tension in the hand line.
- 12" (305 mm) diameter ASTM Class 30 grey iron sheave with machined groove for 3/4" (19 mm) or 1" (25.4 mm) rope.
- Tapered roller bearings.
- Sheave "floats" on two 3/4" (19 mm) diameter rods.

Dimensions



Order Information

Number	Sheave Diameter	Groove	Weight
600-11217C75	12" (305 mm)	3/4" (19 mm)	40 lbs. (18.1 kg)
600-11217C100	12" (305 mm)	1" (25.4 mm)	40 lbs. (18.1 kg)



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TECHNICAL SHEET



Tension Floor Blocks

- Used as the return pulley for the hand line in J-Guide or T-Bar manual counterweight sets.
- Minimum 40 lbs. (18.1 kg) weight to properly tension the handline.
- Kick tab permits easy readjustment of the block.
- ASTM Class 30 grey iron sheave.
- Sealed precision 17 mm ball bearings.
- Steel shoes.
- Special grooves and shoe sizes available, consult factory.
- Also known as "Welch" tension blocks, after the J.R. Clancy employee who developed the block in 1925.

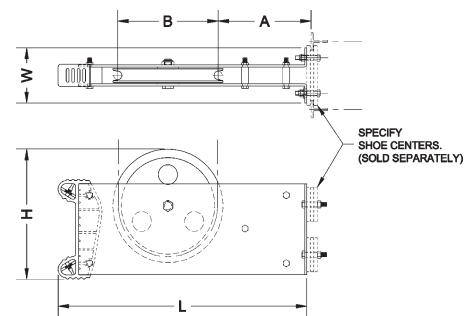


**Tension Floor Block
600-11015C100**

Dimensions

Nominal Sheave Diameter	Dim. L	Dim. H	Dim. W	Dim. A*	Dim. B
10" (254 mm)	23" (584 mm)	11-7/16" (290.5 mm)	4-7/8"+ (124 mm)	8-1/8" (206 mm)	9-3/4" (248 mm)
12" (305 mm)	23" (584 mm)	12-7/16" (316 mm)	4-7/8" (124 mm)	7-7/16" (189 mm)	11-1/8" (283 mm)

*Nominal distance from face of guides.
+Consult factory for "W" dimensions of 600-11015C75U, 600-11015C100U.



Order Information

Number	Sheave Diameter	Groove	Set Centers	Weight
600-11015C75	10" (254 mm)	3/4" (19 mm)	6" or 8" (152 or 203 mm)	41 lbs. (18.6 kg)
600-11015C75U	10" (254 mm)	3/4" (19 mm)	Less than 6" (152 mm) - specify centers	43 lbs. (19.5 kg)
600-11215C75	12" (305 mm)	3/4" (19 mm)	6" or 8" (152 or 203 mm)	48 lbs. (21.8 kg)
600-11015C100	10" (254 mm)	1" (25.4 mm)	6" or 8" (152 or 203 mm)	41 lbs. (18.6 kg)
600-11015C100U	10" (254 mm)	1" (25.4 mm)	Less than 6" (152 mm) - specify centers	43 lbs. (19.5 kg)
600-11215C100	12" (305 mm)	1" (25.4 mm)	6" or 8" (152 or 203 mm)	48 lbs. (21.8 kg)



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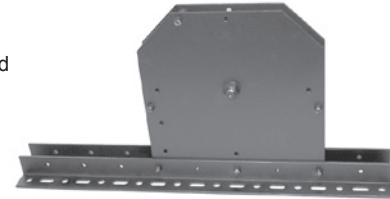
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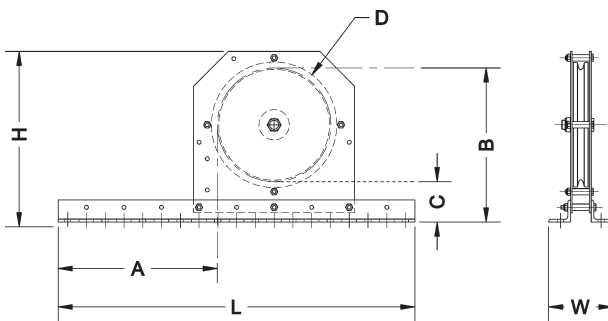
Universal Loft Blocks – 55/56/59 Series

- May be mounted upright or underhung.
- May be supported by I-beams, grid wells, or Unistrut™.
- Nylon or ASTM Class 30 grey iron sheaves.
- 8" (203 mm) blocks have 24" (610 mm) base angles with a continuous pattern of holes and slots for universal mounting for a grip range up to 20" (508 mm).
Multi-line block base angles have a series of mounting holes.
- 8-Line blocks have the base angles turned in, requiring different upright and underhung models.
- A clip package is available for single line blocks with a combination of J-bolts and clips for both underhung and upright mounting options.
- Sealed precision ball bearings (Single line, 8" [203 mm] nominal sheave only) or tapered roller bearings.
- Side plates fully enclose sheave.
- Five spacers between the side plates, three of which prevent cables from escaping the sheave grooves.
- Pivot adapters (070-PIVOT) are available for single line 8" (203 mm) blocks used in applications where the mounting surface is sloped.
- Underhung loft blocks may need to be welded to loft beams after final alignment – consult the factory for specific information.



Universal Loft Block
200-10856N25

Dimensions



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Nominal Sheave Diameter	Lines	Dim. L	Dim. H	Dim. W	Dim. A	Dim. B	Dim. C*	Dim. D Sheave Diameter	Sideplate
8" (203 mm)	1	24-3/8" (619 mm)	11-5/8" (295.3 mm)	4-3/8" (111 mm)	10-7/8" (276.2 mm)	10-1/2" (266.7 mm)	2-3/4" (70 mm)	8-9/16" (217 mm)	12 GA (2.65 mm)
8" (203 mm)	2	24-3/8" (619 mm)	11-5/8" (295.3 mm)	4-3/8" (111 mm)	10-7/8" (276.2 mm)	10-1/2" (266.7 mm)	2-3/4" (70 mm)	8-9/16" (217 mm)	12 GA (2.65 mm)
8" (203 mm)	4	21" (533 mm)	11-7/16" (290.5 mm)	5-1/2" (139.7 mm)	8-13/16" (223.8 mm)	10-1/8" (257 mm)	2-1/4" (57 mm)	8-1/2" (216 mm)	10 GA (3.4 mm)
8" (203 mm)	8	32"+ (813 mm)	11-7/16" (290.5 mm)	5-1/2" (139.7 mm)	8-13/16" (223.8 mm)	10-1/8" (257 mm)	2-1/4" (57 mm)	8-1/2" (217 mm)	10 GA (3.4 mm)
8" (203 mm)	10	32"+ (813 mm)	11-7/16" (290.5 mm)	6-3/16" (157 mm)	8-13/16" (223.8 mm)	10-1/8" (257 mm)	2-1/4" (57 mm)	8-1/2" (217 mm)	10 GA (3.4 mm)
12" (305 mm)	1	28" (711 mm)	15" (381 mm)	4-3/4" (120.6 mm)	12-3/8" (314.3 mm)	13-3/4" (349.2 mm)	2-3/8" (60.3 mm)	12" (305 mm)	10 GA (3.4 mm)
12" (305 mm)	2	28" (711 mm)	15" (381 mm)	4-3/4" (120.6 mm)	12-3/8" (314.3 mm)	13-3/4" (349.2 mm)	2-3/8" (60.3 mm)	12" (305 mm)	10 GA (3.4 mm)
12" (305 mm)	8	34" (864 mm)	15" (381 mm)	5-3/8" (136.5 mm)	13-5/16" (338 mm)	13-11/16" (347.7 mm)	2-5/16" (74.6 mm)	12" (305 mm)	10 GA (3.4 mm)
16" (305 mm)	1	26" (660 mm)	19" (483 mm)	5-1/4" (133.3 mm)	22-3/4" (578 mm)	17-3/4" (450.8 mm)	2-1/8" (54 mm)	16" (406 mm)	7 GA (4.55 mm)

*Dimension to cable C/L when block is used in underhung application.
+32" (813 mm) for upright 21" (533 mm) for underhung

Continued on the following page.

Stage Rigging - Manual Rigging/Blocks

Order Information

Sheave Diameter	Lines	Bearings	Cast Iron Product Code	RWL	Weight	Nylon Product Code	RWL	Weight
Cable Blocks (1/4" [6.35 mm] cable)								
8-1/2" (216 mm)	1	17 mm BB	200-10855C25	500 lbs. (227 kg)	20 lbs. (9 kg)	200-10856N25	750 lbs. (340 kg)	15 lbs. (6.8 kg)
8-1/2" (216 mm)	2	17 mm BB	200-20855C25	700 lbs. (317 kg)	20 lbs. (9 kg)	200-20855N25	750 lbs. (340 kg)	16 lbs. (7.25 kg)
8-1/2" (216 mm)	1	17 mm TRB	200-10856C25T	500 lbs. (227 kg)	20 lbs. (9 kg)	200-10856N25T	750 lbs. (340 kg)	15 lbs. (6.8 kg)
8-1/2" (216 mm)	2	17 mm TRB	200-20855C25T	700 lbs. (317 kg)	20 lbs. (9 kg)	200-20855N25T	750 lbs. (340 kg)	16 lbs. (7.25 kg)
8-1/2" (216 mm)	4	1" TRB (25.4 mm)	200-40855C25	1300 lbs. (590 kg)	40 lbs. (18 kg)	200-40855N25	1300 lbs. (590 kg)	31 lbs. (14 kg)
8-1/2" Upright (216 mm)	8	1" TRB (25.4 mm)	200-80855C25	1300 lbs. (590 kg)	52 lbs. (23.5 kg)	200-80855N25	1300 lbs. (590 kg)	32 lbs. (14.5 kg)
8-1/2" Underhung (216 mm)	8	1" TRB (25.4 mm)	200-80859C25	1300 lbs. (590 kg)	52 lbs. (23.5 kg)	200-80859N25	1300 lbs. (590 kg)	32 lbs. (14.5 kg)
8-1/2" Upright (216 mm)	10	1" TRB (25.4 mm)	200-10855C25	1300 lbs. (590 kg)	55 lbs. (25 kg)	-	-	-
8-1/2" Underhung (216 mm)	10	1" TRB (25.4 mm)	200-10859C25	1300 lbs. (590 kg)	55 lbs. (25 kg)	-	-	-
12"* (305 mm)	1	1" TRB (25.4 mm)	200-11255C25	700 lbs. (317 kg)	50 lbs. (22.7 kg)	-	-	-
12" (305 mm)	2	1" TRB (25.4 mm)	200-21255	1400 lbs. (634 kg)	50 lbs. (22.7 kg)	-	-	-
12" Upright (305 mm)	8	1" TRB (25.4 mm)	200-81255C25	3000 lbs. (1361 kg)	74 lbs. (33.5 kg)	-	-	-
12" Underhung (305 mm)	8	1" TRB (25.4 mm)	200-81259C25	2500 lbs. (1134 kg)	74 lbs. (33.5 kg)	-	-	-
16"+ (305 mm)	1	1" TRB (25.4 mm)	200-11655S38	1400 lbs. (634 kg)	110 lbs. (50 kg)	-	-	-
Cable Blocks (3/16" [4.76 mm] cable)								
8-1/2" (216 mm)	1	17 mm BB	-	-	-	200-10855N19	500 lbs. (227 kg)	15 lbs. (6.8 kg)
8-1/2" (216 mm)	1	17 mm TRB	-	-	-	200-10855N19T	500 lbs. (227 kg)	15 lbs. (6.8 kg)
8-1/2" (216 mm)	8	1" TRB (25.4 mm)	-	-	-	200-80855N19	1300 lbs. (590 kg)	28 lbs. (12.7 kg)
8-1/2" (216 mm)	8	1" TRB (25.4 mm)	-	-	-	200-80859N19	1300 lbs. (590 kg)	28 lbs. (12.7 kg)
Rope Blocks (3/4" [19 mm] cable)								
8" (203 mm)	1	17 mm BB	200-10855C75	300 lbs. (136 kg)	20 lbs. (9 kg)	200-10855N75	300 lbs. (136 kg)	15 lbs. (6.8 kg)
8" (203 mm)	1	17 mm TRB	200-10855C75T	300 lbs. (136 kg)	20 lbs. (9 kg)	200-10855N75T	300 lbs. (136 kg)	15 lbs. (6.8 kg)
<p>*Available for 1/4" (6.35 mm) or 3/8" (9.5 mm) cable, specify. (RWL for 1/4" (6.35 mm) groove 700 lbs. (317 kg), for 3/8" (9.5 mm) groove 1050 lbs. (476 kg)) +Steel sheave, available for 3/8" (9.5 mm) or 1/2" (12.7 mm) cable, specify.</p> <p>RWL: RWL is maximum load that can be applied to a block which is in "like new" condition and has been properly installed, maintained, and operated.</p>								

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TECHNICAL SHEET



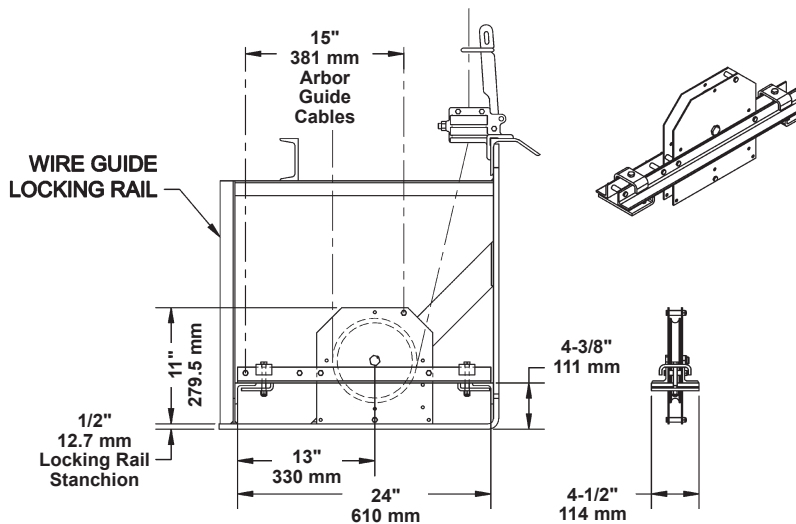
Wire Guide Floor Blocks

- Used with wire guide locking rail. Due to their limited travel, wire guided sets can use this economical fixed floor block.
- 8" (203 mm) diameter nylon or ASTM Class 30 grey iron sheave, grooved for 3/4" (19 mm) rope.
- Sealed precision 17 mm (.67") ball bearings.
- 12 gauge (2.65 mm) side plates fully enclose sheave.
- Additional spacers are provided for arbor guide wire attachment.
- Floor block clip package includes mounting hardware for attachment to 011-518 locking rails.



Wire Guide Floor Block
600-10855C75

Dimensions



Order Information

Number	Sheave Diameter	Material	Weight
600-10855C75	8" (203 mm)	Cast Iron	18 lbs. (8.2 kg)
600-10855N75	8" (203 mm)	Nylon	15 lbs. (6.8 kg)
070-FBCP	-	Floor Block Clip Package	3.5 lbs. (1.6 kg)



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TECHNICAL SHEET



A-Guide™ System

- Heavy duty aluminum guide system for counterweight arbors.
- 2" x 3-1/2" x 3/16" (50.8 mm x 88.9 mm x 4.76 mm) guide.
- Significantly less time to install than steel T-Bar.
- 6" (152 mm) and 8" (203 mm) centers are standard, other centers are available.
- A-Guide systems supplied complete with required A-Guide, wall battens, stop battens, splices, adjustable wall knees, bolts, nuts, and washers.
- Adjustable wall knees allow simple, on site adjustment to meet field conditions.
- Vertical A's are connected to wall battens with self-aligning clamps, for fast installation.
- Pre-punched horizontal wall battens and stop battens are pre-punched 1-3/4" x 1-3/4" x 3/16" (44.5 mm x 44.5 mm x 4.76 mm) steel angle, with holes on 2" (50.8 mm) centers. These allow simple adjustment of guide location to accommodate field conditions.
- Optional 2" x 2" (50.8 mm x 50.8 mm) hardwood or hardwood with neoprene bumpers are available for stop battens.



A-Guide System
012-1751
US Patent 6,537,155

Ordering Information

Guide systems are ordered in linear feet of guide required (number of runs of A x height of guide).

Number	Description	Weight
012-1751	A-Guide System, black anodized finish	4 lbs./ft. (5.9 kg/m)
112-1H	2" x 2" (50.8 mm x 50.8 mm) Hardwood stop batten	3 lbs./ft. (4.46 kg/m)
112-1N	2" x 2" (50.8 mm x 50.8 mm) Hardwood stop batten w/1/4" (6.35 mm) Neoprene	4 lbs./ft. (5.9 kg/m)



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Index Lights

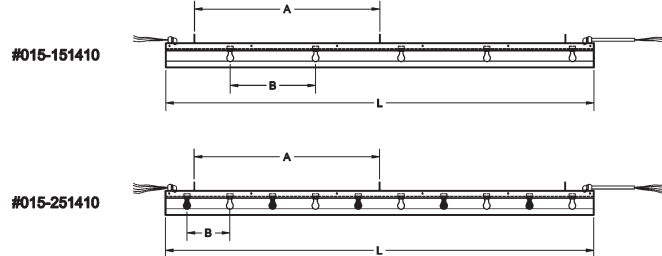
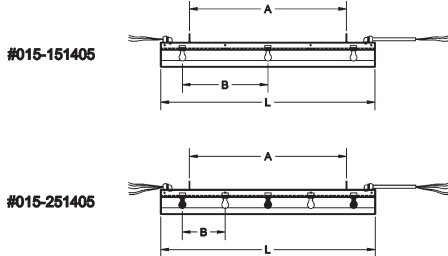
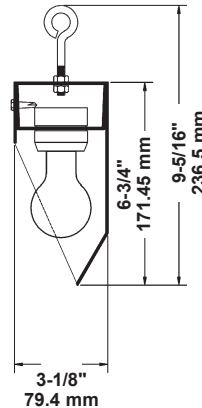
- Used to light the locking rail, fly, and loading galleries, with minimal light bleeding.
- Black exterior with white interior for even light distribution.
- UL Listed.
- Use with 40W "A" lamps or led lamps.
- Two-circuit units allow the use of two colors.



Index Light

Dimensions

Number	Length	Dim. A	Dim. B	Lamps
015-151405	5' (1.5 m)	44" (1118 mm)	24" (610 mm)	3
015-151410	10' (3 m)	52" (1321 mm)	24" (610 mm)	5
015-251405	5' (1.5 m)	44" (1118 mm)	12" (305 mm)	5
015-251410	10' (3 m)	52" (1321 mm)	12" (305 mm)	10



Order Information

Number	Description	Length	Socket Spacing	Weight
015-151405	One Circuit	5' (1.5 m)	24" (610 mm)	15 lbs. (6.8 kg)
015-151410	One Circuit	10' (3 m)	24" (610 mm)	30 lbs. (13.6 kg)
015-251405	Two Circuit	5' (1.5 m)	12" (305 mm)	15 lbs. (6.8 kg)
015-251410	Two Circuit	10' (3 m)	12" (305 mm)	30 lbs. (13.6 kg)



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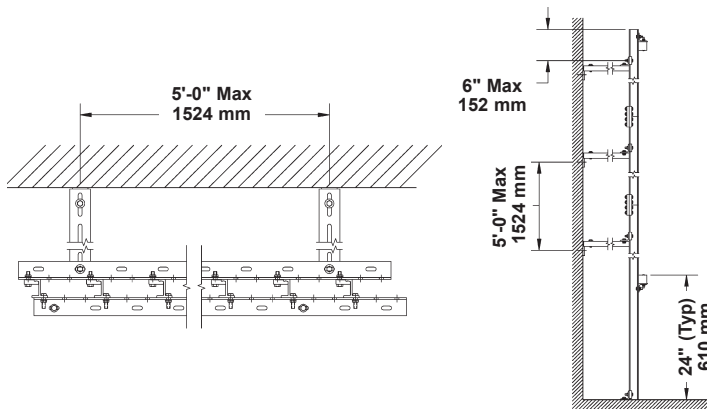
J-Guide™ Systems

- Lightweight aluminum guide system for counterweight arbors.
- 1-1/2" x 1-3/4" x 3/16" (38.1 mm x 44.5 mm x 4.76 mm) guide.
- Averages 40% less time to install than steel T-Bar.
- 6" (152 mm) and 8" (203 mm) centers are standard, other centers are available.
- J-Guide systems supplied complete with required J-Guide, wall battens, stop battens, splices, adjustable wall knees, bolts, nuts, and washers.
- Adjustable wall knees allow simple, on site adjustment to meet field conditions.
- Vertical J's are connected to wall battens with self-aligning clamps, for fast installation.
- Horizontal wall battens and stop battens are pre-punched 1-3/4" x 1-3/4" x 3/16" (44.5 mm x 44.5 mm x 4.76 mm) steel angle, with holes on 2" (50.8 mm) centers. These allow simple adjustment of guide location to accommodate field conditions.
- Optional 2" x 2" (50.8 mm x 50.8 mm) hardwood or hardwood with neoprene bumpers are available for stop battens.



J-Guide System
012-1650
US Patent 6,537,155

Dimensions



Order Information

Guide systems are ordered in linear feet of guide required (number of runs of J x height of guide).

Number	Description	Weight
012-1650	J-Guide System, natural finish	3 lbs./ft. (4.46 kg/m)
012-1650B	J-Guide System, black anodized finish	3 lbs./ft. (4.46 kg/m)
112-1H	2" x 2" (50.8 mm x 50.8 mm) Hardwood stop batten	3.5 lbs./ft. (5.8 kg/m)
112-1N	2" x 2" (50.8 mm x 50.8 mm) Hardwood stop batten	4 lbs./ft. (5.9 kg/m)



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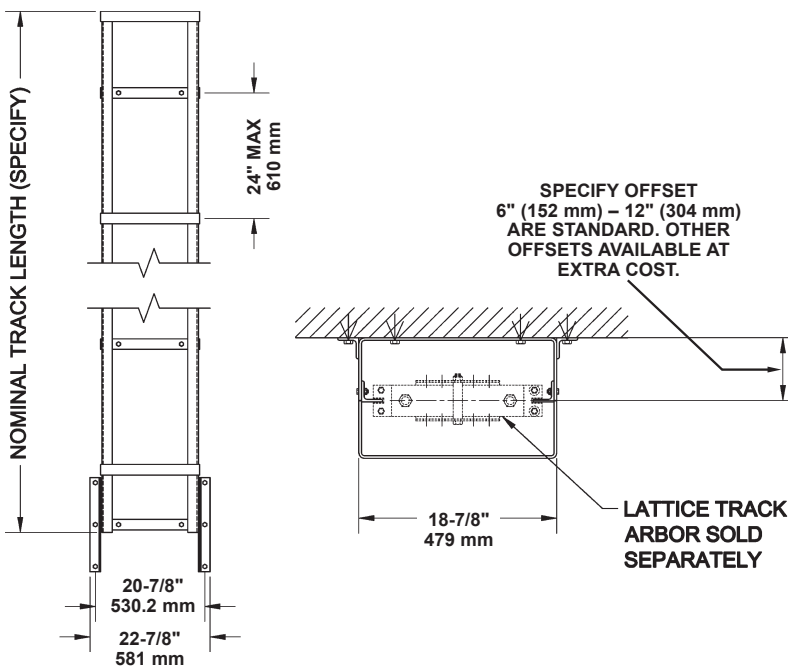
Lattice Track

- Lattice track systems are used for individual counterweight sets such as act curtains and fire curtains.
- Formed of two 2" x 2" x 1/4" (50.8 mm x 50.8 mm x 6.35 mm) steel angles with 1/4" x 2" (6.35 mm x 50.8 mm) formed brackets alternating front and back on 2' (0.6 m) centers.
- Generally bolted flat to the proscenium wall.
- Used with 84 Series lattice track arbors.
- Bottom bracket included.
- Optional bottom bracket with spring bumper stop is available.



Lattice Track
012-5049R

Dimensions



Order Information

Guide systems are ordered in linear feet of guide required. Specify distance from wall to center line of guides.

Number	Description	Weight
012-5049R	Lattice Track with bottom bracket	7 lbs./ft. (10.4 kg/m)
112-8049S	Bottom bracket with spring bumper	55 lbs. (25 kg)



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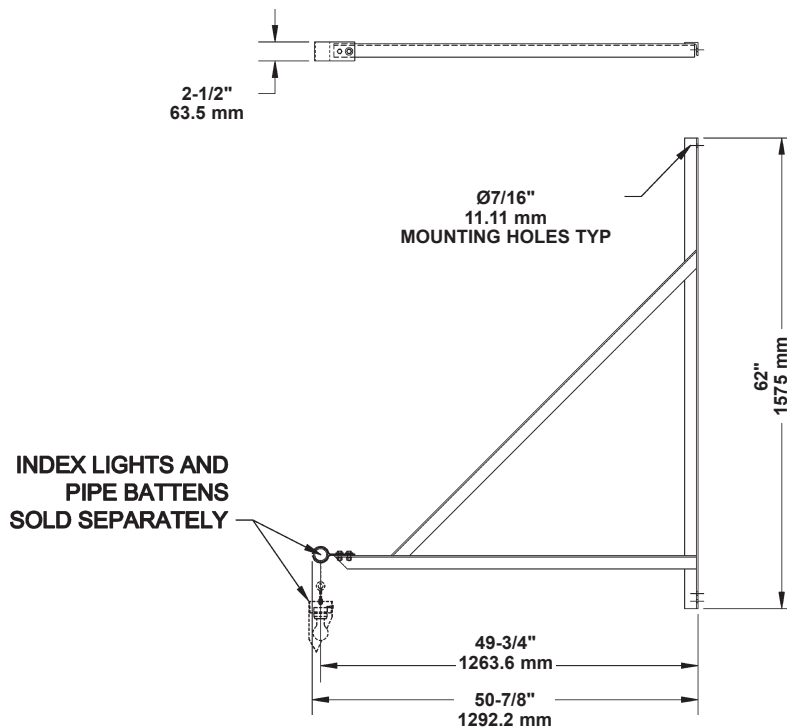
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Outrigger Bracket

- Used to support outrigger battens in front of the Guide Wall.
- Use 015-67R Pipe Batten with these brackets to form the outrigger.
- Outrigger battens are used to support index lights or act as a scenery bumper.
- Use on 10' (254 m) maximum centers.
- Optional 6" x 6" (152 mm x 152 mm) wall plate with 12" (304 mm) sleeve available to attach batten end to a wall.
- Brackets typically attach to J-Guide, A-Guide, or T-Bar Guide wall battens.

Dimensions



Order Information

Number	Description	Weight
015-96	Outrigger Bracket w/1-1/2" (38.1 mm) half clamp	30 lbs. (13.6 kg)
015-96WS	Wall plate for Sch 40, 1-1/2" (38.1 mm) batten	4 lbs. (1.8 kg)
015-96WSH	Wall plate for Sch 80, 1-1/2" (38.1 mm) batten	6 lbs. (2.7 kg)



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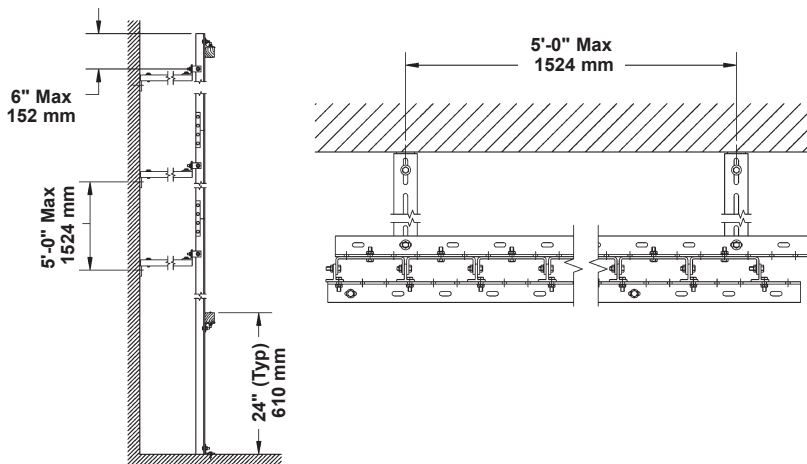
T-Bar Guide Systems

- Used to guide counterweight arbors.
- 6" (152 mm) and 8" (203 mm) centers are standard, other centers are available.
- T-Bar systems supplied complete with required T-Bar, steel wall batten angles, stop battens, splice bars, U-clips, adjustable wall knees, bolts, nuts, and washers.
- Adjustable wall knees allow simple, on site adjustment to meet field conditions.
- Vertical T's are pre-punched 1-1/2" x 1-1/2" x 3/16" (38.1 mm x 38.1 mm x 4.76 mm) steel members.
- Horizontal wall battens & stop battens are pre-punched 1-3/4" x 1-3/4" x 3/16" (44.5 mm x 44.5 mm x 4.76 mm) steel angle.
- Optional 2" x 2" (50.8 mm x 50.8 mm) hardwood or hardwood with neoprene bumpers are available for stop battens.



T-Bar Guide System
012-1500

Dimensions



Order Information

Guide systems are ordered in linear feet of guide required (number of runs of T x height of guide).

Number	Description	Weight
012-1500	T-Bar Guide System	4 lbs./ft. (5.9 kg/m)
112-1H	2" x 2" (50.8 mm x 50.8 mm) Hardwood stop batten	3 lbs./ft. (4.46 kg/m)
112-1N	2" x 2" (50.8 mm x 50.8 mm) Hardwood stop batten with 1/4" (6.35 mm) Neoprene	4 lbs./ft. (5.9 kg/m)



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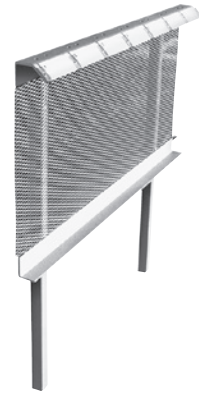
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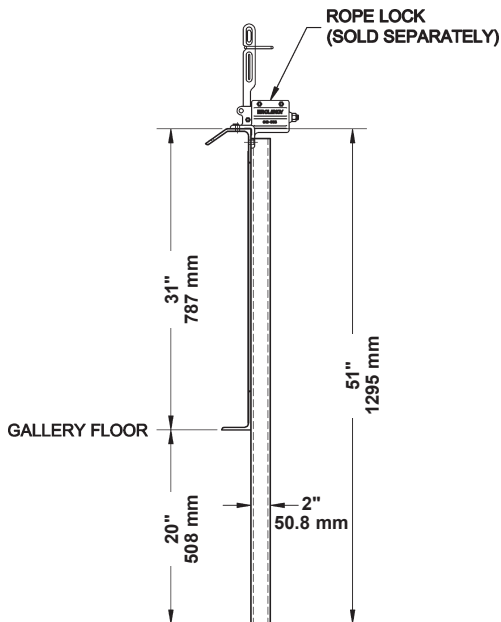
Locking Rails - Gallery Mounted

- Locking rails support rope locks and the index cards used to identify sets.
- Rope locks and index cards are mounted on a 3" x 5" x 1/4" (76 mm x 127 mm x 6.35 mm) formed, pre-punched steel angle.
- Built to withstand a 500 lb. per linear foot (744.5 kg/m) up load (RWL).
- Numbered index cards with a safety warning are included.
These can be written on using erasable marker or grease pencil.
- Mounts to the edge of a counterweight pit or gallery.
- Mounting method must be able to withstand the imposed load.
- Mounting stanchions are located on 5' (1.52 m) (maximum) centers and made from 2" x 2" x 1/4" (50.8 mm x 50.8 mm x 6.35 mm) steel tube.
- Wire mesh keeps objects from being knocked off edge of gallery.



Gallery Mounted Locking Rail
011-558R6

Dimensions



Order Information

Number	Set Centers	Weight
011-558R6	6" (152 mm)	20 lbs. (9 kg)
011-558R8	8" (203 mm)	20 lbs. (9 kg)

RWL: RWL is maximum load that can be applied to the locking rail which is in "like new" condition and has been properly installed, maintained, and operated.



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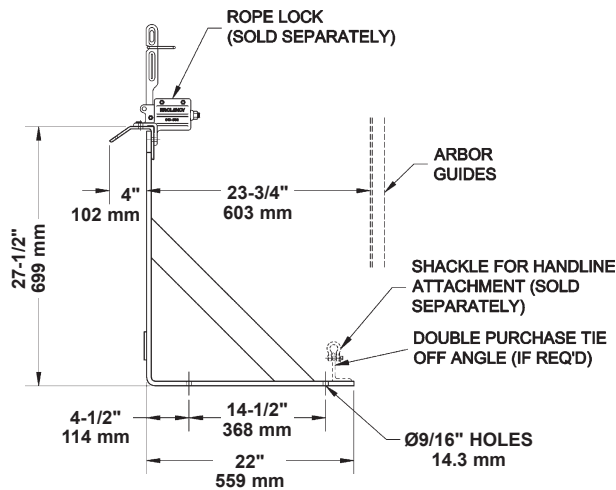
Locking Rails - J-Guide/T-Bar

- Locking rails support rope locks and the index cards used to identify sets.
- Rope locks and index cards are mounted on a 3" x 5" x 1/4" (76 mm x 127 mm x 6.35 mm) formed, pre-punched steel angle.
- Built to withstand a 500 lb. per linear foot (744.5 kg/m) up load (RWL).
- Numbered index cards with a safety warning are included.
These can be written on using erasable marker or grease pencil.
- Mounts to the stage floor. Mounting method must be able to withstand the imposed load.
- Mounting stanchions are located on 5' (1.52 m) (maximum) centers and made from 1/2" x 3" (12.7 mm x 76.2 mm) flat bar.
- An optional reaction bar for use with a portable capstan hoist is available.



J-Guide/T-Bar Locking Rail
011-538R6

Dimensions



Order Information

Number	Type	Set Centers	Weight
011-538R6	Single Purchase	6" (152 mm)	18 lbs./ft. (26.75 kg/m)
011-538R8	Single Purchase	8" (203 mm)	18 lbs./ft. (26.75 kg/m)
011-538D6	Double Purchase	6" (152 mm)	18 lbs./ft. (26.75 kg/m)
011-538D8	Double Purchase	8" (203 mm)	18 lbs./ft. (26.75 kg/m)
011-BAR	Reaction Bar	-	6 lbs./ft. (8.2 kg/m)

RWL: RWL is maximum load that can be applied to the locking rail which is in "like new" condition and has been properly installed, maintained, and operated.



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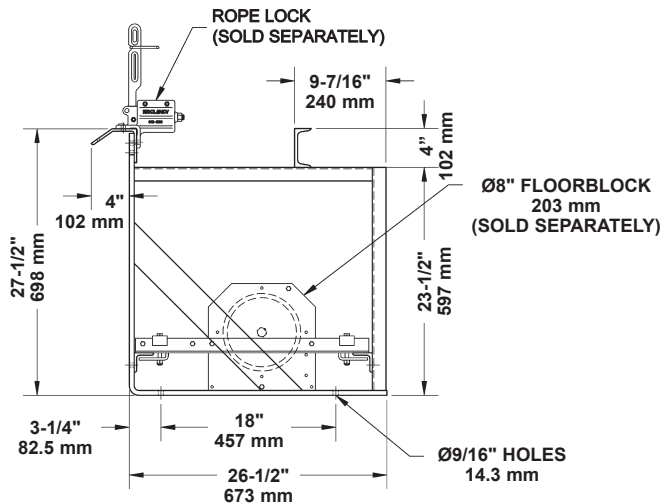
Locking Rails - Wire Guide

- Locking rails support rope locks and the index cards used to identify sets.
- Two angles are provided to support 855M floor blocks.
- Rope locks and index cards are mounted on a 3" x 5" x 1/4" (76 mm x 127 mm x 6.35 mm) formed, pre-punched steel angle.
- Built to withstand a 500 lb. per linear foot (744.5 kg/m) up load (RWL).
- Numbered index cards with a safety warning are included. These can be written on using erasable marker or grease pencil.
- A 4" (102 mm) channel is provided as a lower bumper for counterweight arbors.
- Mounts to the stage floor. Mounting method must be able to withstand the imposed load.
- Mounting stanchions are located on 5' (1.52 m) (maximum) centers and made from 1/2" x 3" (12.7 mm x 76.2 mm) flat bar and 3" (76.2 mm) channel.



Wire Guide Locking Rail
011-518R6

Dimensions



Order Information

Number	Type	Set Centers	Weight
11-518R6	Single Purchase	6" (152 mm)	31 lbs./ft. (14 kg/m)
11-518R8	Single Purchase	8" (203 mm)	31 lbs./ft. (14 kg/m)
11-518D6	Double Purchase	6" (152 mm)	31 lbs./ft. (14 kg/m)
11-518D8	Double Purchase	8" (203 mm)	31 lbs./ft. (14 kg/m)

RWL: RWL is maximum load that can be applied to the locking rail which is in "like new" condition and has been properly installed, maintained, and operated.



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AlphaChain™

AlphaChain™

- 7 mm (0.275") black alloy chain for rigging.
- Black chain eliminates glare and reflection.
- Grade 63 hardened alloy chain meeting OSHA requirements for sling usage OSHA 1910.184(e)(5).
- Used with standard 1/4" (6.35 mm) hardware.
- Marked with JRC on every link.
- Date code on every 10th link for traceability.
- 3,250 lb. (1,474 kg) working loading limit based on the manufacturer's 4:1 safety factor.

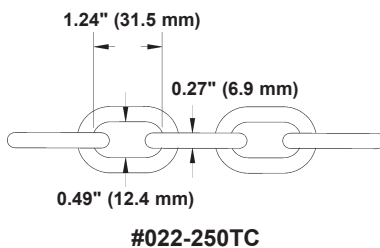


AlphaChain
022-250TC

AlphaChain Trim Chains

- Most popular and economical lift line termination.
- 36" (914 mm) long, 7 mm (0.275") Grade 63 alloy chain, with a forged round pin anchor shackle, and thimble.
- The chain is wrapped one and one half turns around the batten and attached back to the thimble at the end of the lift line with a forged shackle. Adjustment is made by connecting the shackle into a link along the return side of the chain.

Dimensions

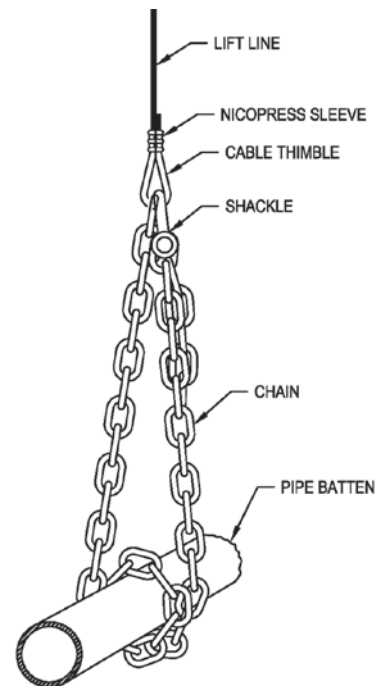


#022-250TC

Order Information

Number	Description	RWL	Weight
022-250TC	AlphaChain 7 mm (0.275") Grade 63 Alloy Chain	3250 lbs. (1474 kg)	0.7 lbs. (0.32 kg)
015-1191B	AlphaChain Black Trim Chain with 5/16" (7.9 mm) Shackle, 1/4" (6.35 mm) Thimble	3250 lbs. (1474 kg)	2 lbs. (0.9 kg)
015-1192B	AlphaChain Black Trim Chain with 1/4" (6.35 mm) Shackle, 1/4" (6.35 mm) Thimble	3250 lbs. (1474 kg)	2 lbs. (0.9 kg)
11-518D8	AlphaChain Black Trim Chain with 1/4" (6.35 mm) Shackle, 3/16" (4.76 mm) Thimble	3250 lbs. (1474 kg)	2 lbs. (0.9 kg)

RWL: RWL is maximum load that can be applied to the trim chain which is in "like new" condition and has been properly installed, maintained, and operated.



AlphaChain Trim Chain
015-1192B



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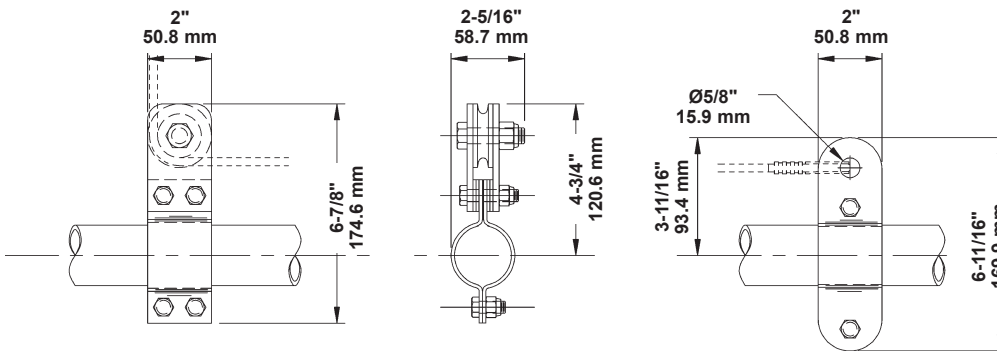
Batten Trim Clamp

- Allows quick trim adjustment with the least reduction in travel distance.
- Fixed clamp with diverter is located at the lift line. Movable clamp is used to adjust batten height.
- For use with 1-1/2" (38 mm) battens only.
- For additional adjustment, add a turnbuckle.



Batten Trim Clamp
026-23x1.5

Dimensions



Order Information

Number	Description	RWL	Weight
026-23x1.5	Batten Trim Clamp	700 lbs. (317.5 kg)	2.5 lbs. (1.1 kg)
RWL: RWL is maximum load that can be applied to the batten trim clamp which is in "like new" condition and has been properly installed, maintained, and operated.			



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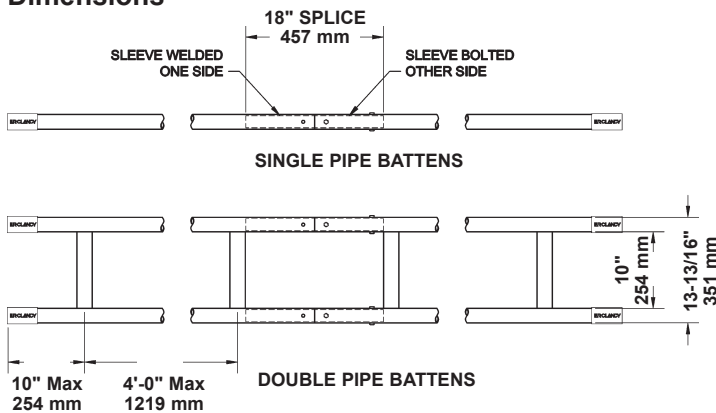
Battens

- Battens are made from seamless pipe and are supplied with a matte black finish.
- Battens up to 21' (6.4 m) long are supplied as a single piece; longer battens are provided with 18" (457 mm) long internal splice sleeves.
- Standard 1-1/2" (38 mm) battens are provided with safety yellow vinyl end caps, making the batten ends easier to see.
- Two pipe ladder trusses are constructed from two 1-1/2" (38 mm) sch 40 pipes with flat bar spacers on 4' (1.219 m) centers. Other special constructions are available, consult factory.



Batten
015-67R

Dimensions





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Order Information

Number	Description	I.D.	O.D.	Weight
015-67R	1-1/2" (38 mm) Sch 40 batten	1.610" (40.9 mm)	1.900" (48.26 mm)	3 lbs./ft. (4.45 kg/m)
015-67H	1-1/2" (38 mm) Sch 80 batten	1.500" (38 mm)	1.900" (48.26 mm)	4 lbs./ft. (5.9 kg/m)
015-68R	2" (51 mm) Sch 40 batten	2.067" (52.5 mm)	2.375" (60.325 mm)	4 lbs./ft. (5.9 kg/m)
015-69R	2-1/2" (64 mm) Sch 40 batten	2.469" (62.7 mm)	2.875" (73.025 mm)	6 lbs./ft. (8.9 kg/m)
015-67T	Two pipe truss batten	1.610" (40.9 mm)	1.900" (48.26 mm)	7 lbs./ft. (10.4 kg/m)
015-67S	1-1/2" (38 mm) Batten sleeve, no holes, 18" long (457 mm)	-	-	3 lbs. (1.3 kg)
015-68S	2" (51 mm) Batten sleeve, no holes, 18" long (457 mm)	-	-	4 lbs. (1.8 kg)
015-69S	2-1/2" (64 mm) Batten sleeve, no holes, 18" long (457 mm)	-	-	9 lbs. (4 kg)
099-BATCAP	Yellow batten end caps, 4" (102 mm) long	-	-	0.1 lb. (0.04 kg)

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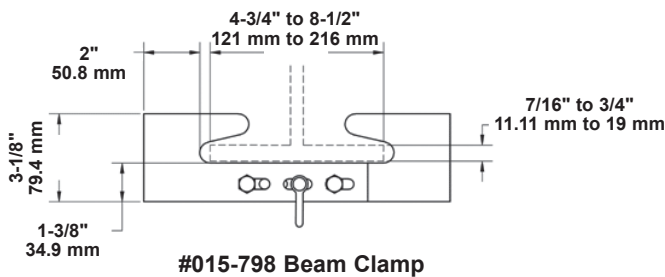
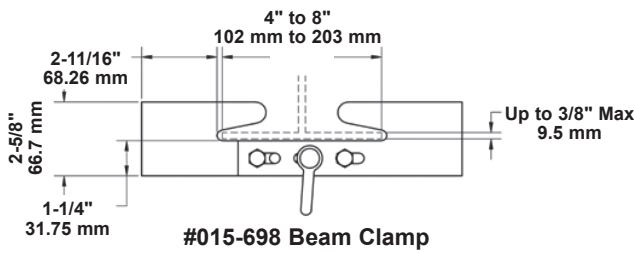
Beam Clamps

- Used for attaching chains or lines to beams for dead hanging or guide wires.
- Includes two 3/8" x 1" (9.5 mm x 25.4 mm) Grade 5 hex bolts with lock nuts, and a 1/4" (6.35 mm) round pin anchor shackle.



Beam Clamp
015-798

Dimensions



Order Information

Number	Description	RWL	Weight
015-698	3/8" (9.5 mm) Throat, will grip flanges from 4" to 8" (102 mm to 203 mm)	350 lbs. (159 kg)	2 lbs. (0.9 kg)
015-798	3/4" (19 mm) Throat, will grip flanges from 4-3/4" to 8-1/2" (121 mm to 216 mm)	350 lbs. (159 kg)	2 lbs. (0.9 kg)

RWL: RWL is maximum load that can be applied to the beam clamp which is in "like new" condition and has been properly installed, maintained, and operated.



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Cable Clips

- Forged Cable Clips, made in the USA.
- Used in conjunction with a thimble to form a loop at the termination of a cable.
- The efficiency rating of a properly prepared assembly is 80% of the catalog breaking strength of the wire rope.
- Clips are galvanized.
- Meets Performance Requirements of Federal Specification FF-C-450, Type 1, Class 1.



Cable Clip
021-250C

Order Information

Number	Description	Weight
021-125C	1/8" (3.175 mm) Forged Cable Clip	0.1 lb. (0.05 kg)
021-187C	3/16" (4.76 mm) Forged Cable Clip	0.1 lb. (0.05 kg)
021-250C	1/4" (6.35 mm) Forged Cable Clip	0.2 lb. (0.09 kg)
021-312C	5/16" (7.9 mm) Forged Cable Clip	0.3 lb. (0.13 kg)
021-375C	3/8" (9.5 mm) Forged Cable Clip	0.5 lb. (0.23 kg)



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Rope Clips

Clip Size Inches	Minimum Number of Clips	Amount of Rope to Turn Back in Inches	Torque in Ft. Lbs.
1/8"	2	3-1/4"	4.5
3/16"	2	3-3/4"	7.5
1/4"	2	4-3/4"	15
5/16"	2	5-1/4"	30
3/8"	2	6-1/2"	45
7/16"	2	7"	65
1/2"	3	11-1/2"	65
9/16"	3	12"	95
5/8"	3	12"	95
3/4"	4	18"	130
7/8"	4	19"	225
1"	5	26"	225
1-1/8"	6	34"	225
1-1/4"	7	44"	360
1-1/2"	8	54"	360

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Cable Cradle

- Cable cradles are used to raise a loop of electrical cable that feeds lighting circuits on a batten using a wire lift line.
- Cables can be up to 2" (5 cm) in diameter.
- Double purchase cable cradles rise half the distance as the lifting cable.
- Includes a 2-1/2" (6.35 cm) clamp for lift line attachment.



Double Cable Cradle
015-295D

Order Information

Number	Description	Weight
015-295	Cable Cradle	3.7 lbs. (1.68 kg)
015-295D	Double Cable Cradle	9 lbs. (4 kg)
015-295DP	Double Purchase Cable Cradle	24 lbs. (10.9 kg)



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Cable Pantographs & Connector Strips

- Cable management and electrical distribution for theatrical and studio lighting, front-of-house lighting, audience chamber lighting, and other architectural/industrial applications.
- The pantograph cable management system provides an efficient means of maintaining control over power and data wiring for rigging sets. It prevents tangling and cable crimping and provides a clean look to the assembly.
- They can be mounted to the gridiron or overhead structure.

Key Features

- For use with fixed speed motorized rigging hoists up to 20 fpm (0.1 m/s).
- Black, extruded aluminum cable housing.
- System utilizes flat multi-cables for various circuit configurations.
- Attaches to upper rigging pipe batten between lift lines.
- A horizontal stabilization track is supplied for the upper connection.
- Extruded aluminum connector strips have interlocking cover sections. Flush receptacles or 18" (457 mm) pigtail mounted connectors are available. Pre-wired with 257°F (125°C) XLP high temperature wire to molded barrier terminal blocks.
- UL listed.
- Black extruded aluminum cable housing, custom colors available.

Ordering Information

We're pleased to provide you with quotes for pantographs.

Please provide the following information:

- Type of rigging
- Number and size of conductors
- Length of extra wire for top and bottom connections
- Attachment height of horizontal stabilization track
- Amount of vertical travel required
- Distance between pickup line
- Amount of top storage space



Cable Pantograph



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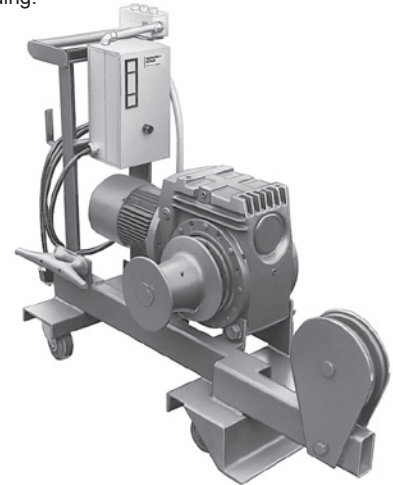
2017-01

TECHNICAL SHEET



Capstan Hoist

- Mobile capstan hoists are used to pull out-of-balance counterweight arbors down for loading.
- Fully self contained, the hoist has an integral motor, brake, capstan drum, starter and controls.
- Foot switch allows use of both hands to manage the hauling line.
- The base has fixed and swivel casters for easy positioning, and a front lip to engage a reaction bar in the locking rail or floor. Reaction rail provided separately.
- Hoists include 150' (45.75 m) of 3/4" (19 mm) SureGrip® rope with a forged safety hook.
- Supplied with 40' (12 m) of power cord with NEMA connector, mating receptacle and junction box.

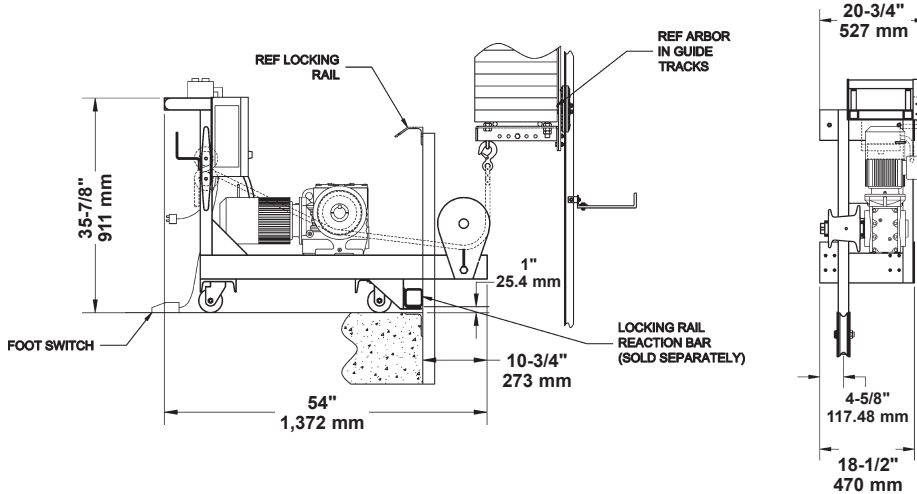


Mobile Capstan Hoist
018-416

Power Requirements

Model	Voltage	Full Load Amps
3 Phase 60 Hz	208	6.3
3 Phase 60 Hz	230	5.7
3 Phase 60 Hz	460	2.85
3 Phase 50 Hz	380	3.3

Dimensions



Order Information

Number	Description	Weight
018-416	Mobile Capstan Hoist 1500 lbs. (680 kg), 35 fpm (0.178 m/s)	400 lbs. (181 kg)



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Chain & Trim Chain - Grade 30

Grade 30 Chain

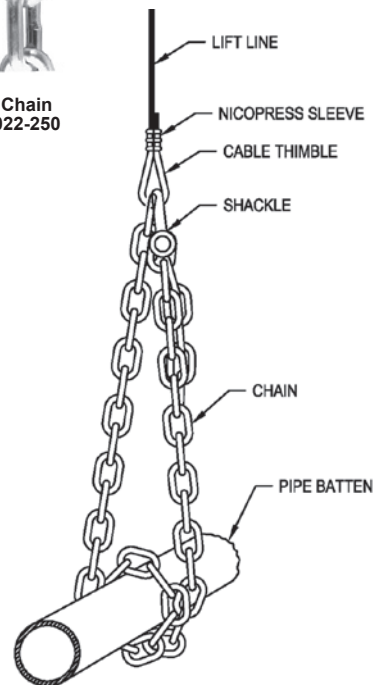
- Grade 30 Proof coil chain for dead hanging.
- Zinc plated.
- Manufactured to Federal Specification RRC-271-E.
- Working loading limit based on the manufacturer's 4:1 safety factor.

Grade 30 Trim Chain

- Most popular and economical lift line termination.
- 36" (914 mm) long, 1/4" (6.35 mm) Grade 30 proof coil chain, with a forged round pin anchor shackle, and thimble.
- The chain is wrapped one and one half turns around the batten and attached back to the thimble at the end of the lift line with a forged shackle. Adjustment is made by connecting the shackle into a link along the return side of the chain.

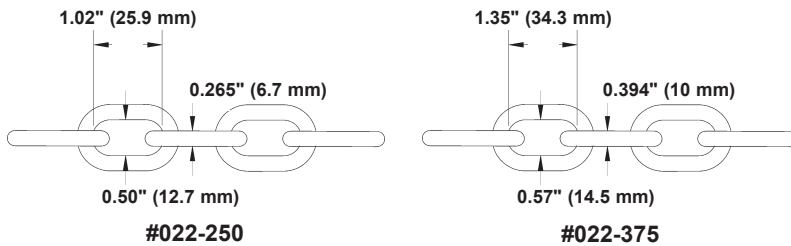


Chain
022-250



Trim Chain
015-1192

Dimensions



Order Information

Number	Description	RWL	Weight
022-250	1/4" (6.35 mm) Proof Coil Chain	1250 lbs. (567 kg)	0.7 lb./ft. (0.32 kg/m)
022-375	3/8" (9.5 mm) Proof Coil Chain	2650 lbs. (1202 kg)	1.5 lbs./ft. (0.68 kg/m)
015-1191	Trim Chain with 5/16" (7.9 mm) Shackle, 1/4" Thimble (6.35 mm)	750 lbs. (340 kg)	2 lbs. (0.9 kg)
015-1192	Trim Chain with 1/4" (6.35 mm) Shackle, 1/4" Thimble (6.35 mm)	750 lbs. (340 kg)	2 lbs. (0.9 kg)
015-1193	Trim Chain with 1/4" (6.35 mm) Shackle, 3/16" Thimble (4.76 mm)	750 lbs. (340 kg)	2 lbs. (0.9 kg)

RWL: RWL is maximum load that can be applied to the trim chain which is in "like new" condition and has been properly installed, maintained, and operated.



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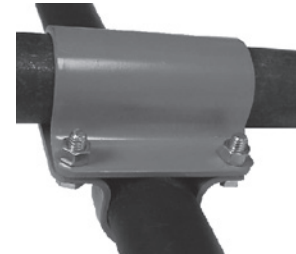
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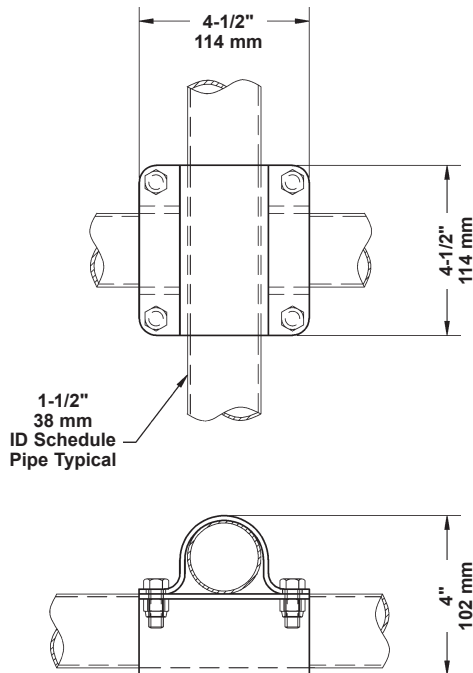
Cross Grid Connector

- Provides rigid, low-profile connections for assembling pipe grids of 1-1/2" (38 mm) schedule 40 pipe.
- Black, powder-coated 1/8" (3.175 mm) steel plates are supplied with 3/8" (9.5 mm) Grade 5 bolts and nuts.
- Pipes can be added or removed in place, without sliding them in from the ends.
- Half of the assembly can also be used to secure a 1-1/2" (38 mm) schedule 40 pipe to any flat surface.



Cross Grid Connector
015-100

Dimensions



Order Information

Number	Description	RWL	Weight
015-100	Cross Grid Connector	1500 lbs. (680 kg)	2 lbs. (0.9 kg)
<p>RWL: RWL is maximum load that can be applied to the cross grid connector which is in "like new" condition and has been properly installed, maintained, and operated.</p>			



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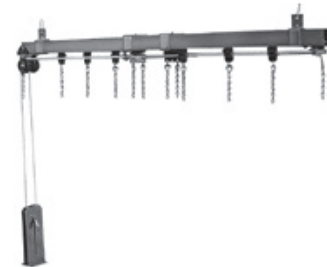
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TECHNICAL SHEET



Curtain Tracks – Steel Channel

- 14 gauge (1.89 mm) galvanized steel box track in 20' (6.1 m) sections.
- Manual or motorized operation.
- Can be used for bi-parting (traveler) or one way operation.
- Choice of several carrier wheel/body types.
- Carriers for heavy duty track have ball bearings.
- Carriers equipped with swivel and trim chain (chain on 280 tracks only) for hanging curtain.
- Carriers for heavy duty track have rubber bumpers to reduce noise.
- Optional back packing operation eliminates on stage bunching while opening.
- Tracks are supplied complete with all necessary accessories (CWANA), including master carriers, one individual carrier per foot, live and dead-end pulleys, end stops, hanging clamps, operating line, and adjustable floor pulley.



Heavy Duty Traveler Track
024-280

Order Information

Number	Carrier Material: Wheel/Body	End Pulley Diameter	Floor Pulley Diameter	Operating Line Diameter	Weight
Heavy Duty Stage Tracks — 2-5/8"W x 2-3/4"H (66.675 mm x 69.85 mm) Steel Channel					
024-280	Polyethylene/Nylon	3-1/4" (83 mm)	3-1/4" (83 mm)	3/8" (9.5 mm)	4 lbs./ft. (5.9 kg/m)
024-281	Neoprene/Steel	3-1/4" (83 mm)	3-1/4" (83 mm)	3/8" (9.5 mm)	4.5 lbs./ft. (6.7 kg/m)
024-282	Nylon/Steel	5" (127 mm)	5" (127 mm)	3/8" (9.5 mm)	4.5 lbs./ft. (6.7 kg/m)
024-283R	Neoprene/Steel	8" (203 mm)	8" (203 mm)	1/2" (12.7 mm)	5 lbs./ft. (7.4 kg/m)
024-283N	Nylon/Steel	8" (203 mm)	8" (203 mm)	1/2" (12.7 mm)	5 lbs./ft. (7.4 kg/m)
Medium Duty Stage Tracks — 1-3/4"W x 2"H (44.45 mm x 50.8 mm) Steel Channel					
024-170	Polyethylene/Steel	1-13/16" (46 mm)	3-1/4" (83 mm)	1/4" (6.35 mm)	3 lbs./ft. (4.45 kg/m)
024-171N	Nylon/Steel	1-13/16" (46 mm)	3-1/4" (83 mm)	1/4" (6.35 mm)	4 lbs./ft. (5.9 kg/m)
024-171R	Neoprene/Steel	1-13/16" (46 mm)	3-1/4" (83 mm)	1/4" (6.35 mm)	4 lbs./ft. (5.9 kg/m)
024-172	Polyethylene/Steel	2-1/4" (57 mm)	3-1/4" (83 mm)	5/16" (7.9 mm)	4 lbs./ft. (5.9 kg/m)
Contact J.R. Clancy for additional models and data.					



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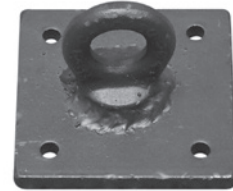
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TECHNICAL SHEET



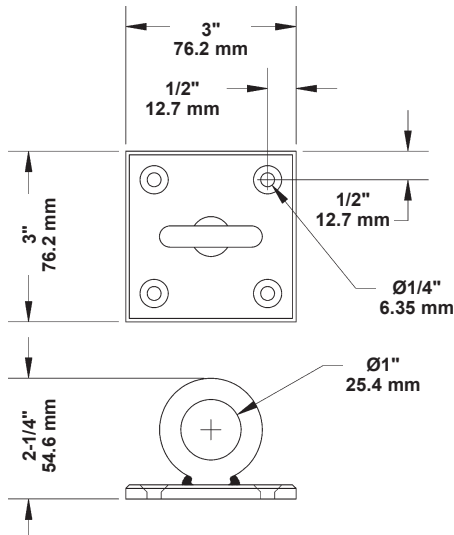
Floor Plate

- Used for terminating guide lines.
- 3" x 3" (76.2 mm x 76.2 mm) square, steel floor plate with forged eye.



Floor Plate
016-97

Dimensions



Order Information

Number	Description	RWL	Weight
016-97	Floor Plate	450 lbs. (204 kg)	0.8 lb. (0.36 kg)
RWL: RWL is maximum load that can be applied to the floor plate which is in "like new" condition and has been properly installed, maintained, and operated.			



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TECHNICAL SHEET



Galvanized Utility Cables

- 7 x 19 Galvanized Utility Cable is used for lift lines, guide wires, and other applications requiring an economical wire rope with good strength and flexibility.
- Manufactured to Federal Specification RRW-410E.
- Test certificates are available at extra cost.
- Sold in 2500' (762 m) rolls.
- Other types of wire rope are available for special applications.



Galvanized Utility Cable
020-125

Order Information

Number	Description	RWL	Weight
2,500' (762 m) Rolls, wt. per foot (meter)			
020-125	1/8" (3.175 mm) Galvanized Utility Cable	250 lbs. (113 kg)	0.03 lb. (0.01 kg)
020-187	3/16" (4.76 mm) Galvanized Utility Cable	537 lbs. (243 kg)	0.07 lb. (0.03 kg)
020-250	1/4" (6.35 mm) Galvanized Utility Cable	875 lbs. (397 kg)	0.11 lb. (0.05 kg)
020-312	5/16" (7.9 mm) Galvanized Utility Cable	1225 lbs. (556 kg)	0.18 lb. (0.08 kg)
020-375	3/8" (9.5 mm) Galvanized Utility Cable	1800 lbs. (816 kg)	0.25 lb. (0.11 kg)
500' (152.4 m) Convenience Rolls, wt. per roll			
020-125-5	1/8" (3.175 mm) Galvanized Utility Cable	250 lbs. (113 kg)	15 lbs. (6.8 kg)
020-375-5	3/8" (9.5 mm) Galvanized Utility Cable	1800 lbs. (816 kg)	90 lbs. (40.8 kg)
RWL is based on an 8:1 safety factor.			



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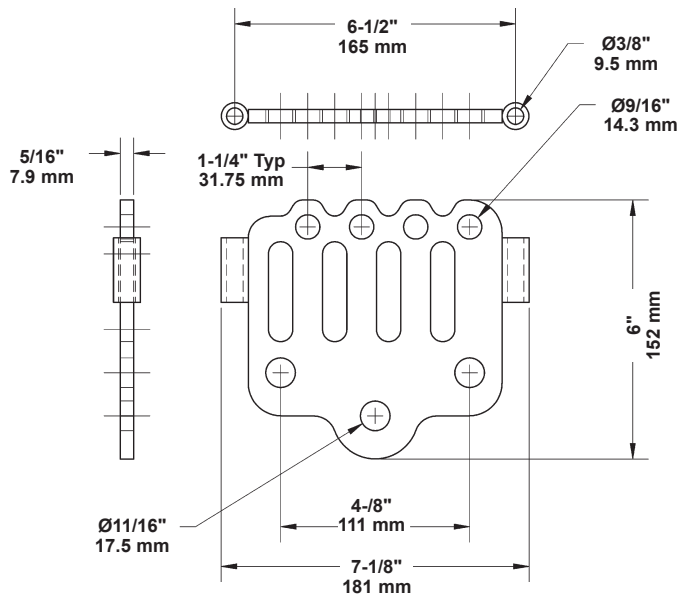
Guided Cable Clew

- Allows one or two drive lines to connect to up to 8 lift lines.
- 5/16" (7.9 mm) thick steel plate with holes for cable and drive lines, plus two guide spoons.
- The design permits the use of lines on tight centers such as are found near multi-groove sheaves.



Guided Cable Clew
015-27X8

Dimensions



Order Information

Number	Description	RWL	Weight
015-27X8	8 Line Guided Cable Clew	*	5 lbs. (2.26 kg)
<p>*RWL is 1500 lbs. (680 kg) with a single drive line, or 2500 lbs. (1134 kg) with two drive lines.</p> <p>RWL: RWL is maximum load that can be applied to the guided cable clew which is in "like new" condition and has been properly installed, maintained, and operated.</p>			



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TECHNICAL SHEET



Multiline II™ Synthetic Rope

- A popular replacement for manila and other ropes used backstage.
- Conventional, three-strand construction for a familiar feel and strong grip.
- Minimal stretch for easy use.
- Length does not change with temperature or humidity, so floor block readjustment is not necessary.
- Breaking strength is more than twice that of manila rope.
- Sold in 600' (183 m) and 1200' (366 m) rolls.
- Other sizes and colors available on special order.
- For 3/4" (19 mm) rope use SureGrip®.



Multiline II Synthetic Rope

Order Information

Number	Description	RWL	Weight
028-625MW6	5/8" (15.9 mm) Diameter Multiline II 600' Roll (183 m)	823 lbs. (373 kg)	0.10 lb./ft. (0.13 kg/m)
028-625MW12	5/8" (15.9 mm) Diameter Multiline II 1200' Roll (366 m)	823 lbs. (373 kg)	0.10 lb./ft. (0.13 kg/m)
028-625MB6	5/8" (15.9 mm) Diameter Multiline II, Black 600' Roll (183 m)	823 lbs. (373 kg)	0.10 lb./ft. (0.13 kg/m)
028-625MB12	5/8" (15.9 mm) Diameter Multiline II, Black 1200' Roll (366 m)	823 lbs. (373 kg)	0.10 lb./ft. (0.13 kg/m)
028-875MW6	7/8" (22.2 mm) Diameter Multiline II 600' Roll (183 m)	1550 lbs. (703 kg)	0.18 lb./ft. (0.27 kg/m)
028-875MW12	7/8" (22.2 mm) Diameter Multiline II 1200' Roll (366 m)	1550 lbs. (703 kg)	0.18 lb./ft. (0.27 kg/m)
028-1000MW6	1" (25.4 mm) Diameter Multiline II 600' Roll (183 m)	1870 lbs. (848 kg)	0.22 lb./ft. (0.33 kg/m)
028-1000MW12	1" (25.4 mm) Diameter Multiline II 1200' Roll (366 m)	1870 lbs. (848 kg)	0.22 lb./ft. (0.33 kg/m)

RWL is based on manufacturer's 10:1 safety factor.



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TECHNICAL SHEET



Nicopress® Fittings

- Copper oval sleeves are used with a thimble for cable terminations.
- Oval sleeves used with galvanized utility cable have an efficiency rating of 100% of the catalog breaking strength of the galvanized utility cable.
- Copper stop sleeves are used on cable ends inside drums, etc.
The efficiency of these connections must be determined by testing.
- Nicopress sleeves must be installed using the proper Nicopress hand or hydraulic tool.
- Crimps must be verified with the appropriate Nicopress "Go Gauge".
- Nicopress fittings may only be used with Nicopress tools and "Go Gauges".
Do not mix manufacturers.



Nicopress (Oval Sleeve)
025-250N



Nicopress (Stop Sleeve)
025-250S

Order Information

Number	Description	Weight
Copper Oval Sleeves		
025-125N	1/8" (3.175 mm), Oval Sleeve, 18-3-M	0.05 lb. (0.02 kg)
025-187N	3/16" (4.76 mm), Oval Sleeve, 18-6-X	0.05 lb. (0.02 kg)
025-250N	1/4" (6.35 mm), Oval Sleeve, 18-10-F6	0.08 lb. (0.04 kg)
025-312N	5/16" (7.9 mm), Oval Sleeve, 18-13-G9	0.12 lb. (0.05 kg)
025-375N	3/8" (9.5 mm), Oval Sleeve, 18-23-H5	0.15 lb. (0.06 kg)
Copper Stop Sleeves		
025-125S	1/8" (3.175 mm), Stop Sleeve, 871-18-J	0.01 lb. (0.004 kg)
025-187S	3/16" (4.76 mm), Stop Sleeve, 871-20-M	0.05 lb. (0.02 kg)
025-250S	1/4" (6.35 mm), Stop Sleeve, 871-23-F6	0.06 lb. (0.03 kg)
025-312S	5/16" (7.9 mm), Stop Sleeve, 871-26-F6	0.06 lb. (0.03 kg)
025-375S	3/8" (9.5 mm), Stop Sleeve, 871-27-F6	0.06 lb. (0.03 kg)
Tools		
025-51MJ	Crimping Tool for 1/8" (3.175 mm) Oval & Stop, 3/16" (4.76 mm) Stop Sleeves	6 lbs. (2.72 kg)
025-51X850	Crimping Tool for 3/16" (4.76 mm) Oval Sleeves	6 lbs. (2.72 kg)
025-3F6950	Crimping Tool for 1/4" (6.35 mm) Oval & Stop Sleeves	15 lbs. (6.8 kg)
025-2930*	"Go Gauge" for Nicopress Sleeves & Selected Hand Tools	0.1 lb. (0.05 kg)
*When ordering a gauge specify the tool number on which it will be used. *See the web page for swage instructions.		



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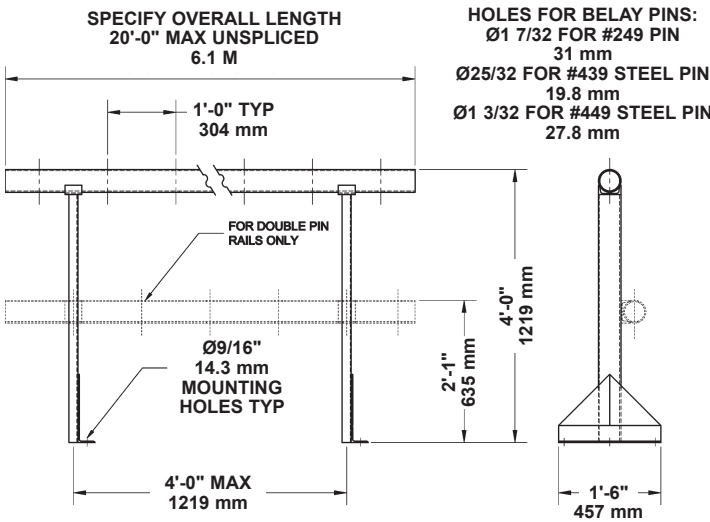
Pin Rail & Accessories

- Pin rails are designed to allow the user to insert belaying pins to tie-off rope rigging.
- The pin rail is made of 3-1/2" (88.9 mm) pipe with holes for belaying pins on 12" (305 mm) centers supported by 4" (102 mm) channel legs.
- Double pin rails have two pipes so that non-moving pieces may be tied off to one pipe and the other used for the active sets. Also for double trims.
- Wood and steel belaying pins are available.
- Sand bags may be used to counterbalance the load.
Sand bags are made from ballistic nylon, with a forged safety hook, and Velcro™ closure.
Dry sand (not supplied) can be added or removed to accurately balance a load.



Pin Rail with Belaying Pins and Sand Bag
015-520R

Dimensions





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Order Information

Number	Description	Weight
Pin Rails		
015-520R	Single Pin Rail	25 lbs./ft. (37 kg/m)
015-520D	Double Pin Rail	45 lbs./ft. (66.9 kg/m)
Belaying Pins		
015-249	21" (533 mm) Wooden Belaying Pin, 1-5/32" (29.37 mm) Diameter	1 lb./ea. (0.45 kg/ea.)
015-439	Steel Belaying Pin, 3/4" (19 mm) Diameter	2 lbs./ea. (0.9 kg/ea.)
015-449	Steel Belaying Pin, 1-1/16" (29.3 mm) Diameter	2.2 lbs./ea. (1 kg/ea.)

Number	Description	Weight
Sand Bags		
015-SB25	25 lb. (11.3 kg) Sand Bag	1 lb./ea. (0.45 kg/ea.)
015-SB50	50 lb. (22.6 kg) Sand Bag	1 lb./ea. (0.45 kg/ea.)
015-SB100	100 lb. (45.3 kg) Sand Bag	2 lbs./ea. (0.9 kg/ea.)
015-1SB150	150 lb. (68 kg) Sand Bag	2 lbs./ea. (0.9 kg/ea.)

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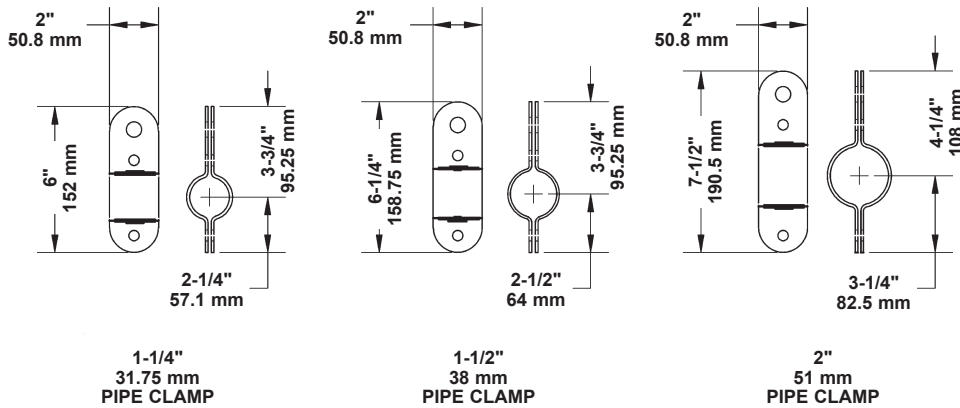
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Pipe Clamps

- Steel clamps with black powder-coat finish.
- Full clamps have rounded corners.
- Supplied with 3/8" x 1" (9.5 mm x 25.4 mm) hex bolts with lock nuts, and a 5/8" (16 mm) hole for attachment of cable, chain, or other fittings.
- Half clamps are 3/16" (4.76 mm) steel, full clamps are 12 gauge (2.65 mm) steel.

Dimensions



Half Pipe Clamp
026-21X1.5



Full Pipe Clamp
026-22X1.5

Order Information

Number	Description	RWL	Weight
Half Clamps			
026-21X1.5	For 1-1/2" (38 mm) pipe	200 lbs. (90.7 kg)	1.5 lbs. (0.68 kg)
026-21X2.0	For 2" (51 mm) pipe	200 lbs. (90.7 kg)	1.5 lbs. (0.68 kg)
Full Clamps			
026-22X1.2	For 1-1/4" (31.75 mm) pipe	750 lbs. (340 kg)	1 lb. (0.45 kg)
026-22X1.5	For 1-1/2" (38 mm) pipe	750 lbs. (340 kg)	1 lb. (0.45 kg)
026-22X2.0	For 2" (51 mm) pipe	750 lbs. (340 kg)	1 lb. (0.45 kg)
026-22X2.5	For 2-1/2" (64 mm) pipe	750 lbs. (340 kg)	1.5 lbs. (0.68 kg)
RWL: RWL is maximum load that can be applied to the pipe clamp which is in "like new" condition and has been properly installed, maintained, and operated.			



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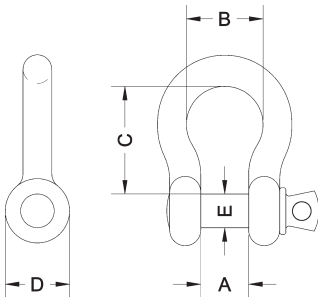
Shackles

- Drop forged anchor shackles meet the performance requirement of Federal Specification RR-C-271D type IVA.
- Shackles have a hot galvanized finish.



Round Pin,
Anchor Shackle

Dimensions



Number	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E
019-A187	3/16" (4.76 mm)	9/16" (14.3 mm)	7/8" (22.2 mm)	5/8" (15.8 mm)	1/4" (6.35 mm)
019-A250	15/32" (11.9 mm)	3/4" (19 mm)	1-1/8" (28.5 mm)	3/4" (19 mm)	5/16" (7.9 mm)
019-A312	17/32" (13.5 mm)	15/16" (23.8 mm)	1-1/4" (31.75 mm)	7/8" (22.2 mm)	3/8" (9.5 mm)
019-A375	21/32" (16.67 mm)	1-1/8" (28.5 mm)	1-7/16" (36.5 mm)	1" (25.4 mm)	7/16" (11.1 mm)

Order Information

Number	Description	RWL	Weight
Round Pin Shackles			
019-A187R	3/16" (4.76 mm) Round Pin Forged Anchor Shackle	666 lbs. (302 kg)	0.07 lb. (0.03 kg)
019-A250R	1/4" (6.35 mm) Round Pin Forged Anchor Shackle	1000 lbs. (454 kg)	0.14 lb. (0.06 kg)
019-A312R	5/16" (7.9 mm) Round Pin Forged Anchor Shackle	1500 lbs. (680 kg)	0.22 lb. (0.09 kg)
019-A375R	3/8" (9.5 mm) Round Pin Forged Anchor Shackle	2000 lbs. (907 kg)	0.33 lb. (0.15 kg)
Screw Pin Shackles			
019-A187S	3/16" (4.76 mm) Screw Pin Forged Anchor Shackle	666 lbs. (302 kg)	0.07 lb. (0.03 kg)
019-A250S	1/4" (6.35 mm) Screw Pin Forged Anchor Shackle	1000 lbs. (454 kg)	0.14 lb. (0.06 kg)
019-A312S	5/16" (7.9 mm) Screw Pin Forged Anchor Shackle	1500 lbs. (680 kg)	0.22 lb. (0.09 kg)
019-A375S	3/8" (9.5 mm) Screw Pin Forged Anchor Shackle	2000 lbs. (907 kg)	0.33 lb. (0.15 kg)
RWL is based on the manufacturer's 6:1 safety factor.			



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2017-01

TECHNICAL SHEET



Stage-Set X™ Synthetic Rope

- A premium, high-strength replacement for manila and other ropes used backstage.
- Constructed with a parallel core of polyester fiber, wrapped in polyester tape and covered by a soft, braided polyester jacket.
- Minimal stretch for easy use.
- Non-rotating for spot lines.
- Length does not change with temperature or humidity, so floor block readjustment is not necessary.
- Breaking strength is more than 3 times that of manila rope.
- Sold in 600' (183 m) and 1200' (366 m) rolls.
- Other sizes and colors available on special order.



Stage-Set X Synthetic Rope

Order Information

Number	Description	RWL	Weight
028-625XW6	5/8" (15.9 mm) Diameter Stage-Set X 600' Roll (183 m)	1250 lbs. (567 kg)	0.11 lb./ft. (0.164 kg/m)
028-625XW12	5/8" (15.9 mm) Diameter Stage-Set X 1200' Roll (366 m)	1250 lbs. (567 kg)	0.11 lb./ft. (0.164 kg/m)
028-625XB6	5/8" (15.9 mm) Diameter Stage-Set X, Black 600' Roll (183 m)	1250 lbs. (567 kg)	0.11 lb./ft. (0.164 kg/m)
028-625XB12	5/8" (15.9 mm) Diameter Stage-Set X, Black 1200' Roll (366 m)	1250 lbs. (567 kg)	0.11 lb./ft. (0.164 kg/m)
028-750XW6	3/4" (19 mm) Diameter Stage-Set X 600' Roll (183 m)	1670 lbs. (757 kg)	0.15 lb./ft. (0.19 kg/m)
028-750XW12	3/4" (19 mm) Diameter Stage-Set X 1200' Roll (366 m)	1670 lbs. (757 kg)	0.15 lb./ft. (0.19 kg/m)
028-750XB6	3/4" (19 mm) Diameter Stage-Set X, Black 600' Roll (183 m)	1670 lbs. (757 kg)	0.15 lb./ft. (0.19 kg/m)
028-750XB12	3/4" (19 mm) Diameter Stage-Set X, Black 1200' Roll (366 m)	1670 lbs. (757 kg)	0.15 lb./ft. (0.19 kg/m)
028-875XW6	7/8" (22.2 mm) Diameter Stage-Set X 600' Roll (183 m)	2300 lbs. (1043 kg)	0.22 lb./ft. (0.33 kg/m)
028-875XW12	7/8" (22.2 mm) Diameter Stage-Set X 1200' Roll (366 m)	2300 lbs. (1043 kg)	0.22 lb./ft. (0.33 kg/m)
028-1000XW6	1" (25.4 mm) Diameter Stage-Set X 600' Roll (183 m)	3160 lbs. (1433 kg)	0.27 lb./ft. (0.4 kg/m)
028-1000XW12	1" (25.4 mm) Diameter Stage-Set X 1200' Roll (366 m)	3160 lbs. (1433 kg)	0.27 lb./ft. (0.4 kg/m)

RWL is based on manufacturer's 10:1 safety factor.



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2017-01

TECHNICAL SHEET



SureGrip® Synthetic Rope

- The only theatrical rope with a wear indicator telling you when the rope needs replacing.
- The perfect replacement for manila and other ropes used backstage.
- Conventional, three-strand construction for a familiar feel and strong grip.
- Minimal stretch for easy use.
- Length does not change with temperature or humidity, so floor block readjustment is not necessary.
- Breaking strength for 3/4" (19 mm) SureGrip is 10,000 lbs. (4,535 kg), more than twice the strength of manila rope.
- Tracer tape with manufacturer's name, contact information and year manufactured.
- Sold in 600' (183 m) and 1200' (366 m) rolls.
- US Patent 7,461,500.



SureGrip Synthetic Rope

Order Information

Number	Description	RWL	Weight
028-750SGW6	3/4" (19 mm) Diameter SureGrip 600' Roll (183 m)	1050 lbs. (476 kg)	0.13 lb./ft. (0.19 kg/m)
028-750SGW12	3/4" (19 mm) Diameter SureGrip 1200' Roll (366 m)	1050 lbs. (476 kg)	0.13 lb./ft. (0.19 kg/m)
028-750SGB6	3/4" (19 mm) Diameter SureGrip, Black 600' Roll (183 m)	1050 lbs. (476 kg)	0.13 lb./ft. (0.19 kg/m)
028-750SGB12	3/4" (19 mm) Diameter SureGrip, Black 1200' Roll (366 m)	1050 lbs. (476 kg)	0.13 lb./ft. (0.19 kg/m)

RWL is based on manufacturer's 10:1 safety factor.



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2017-01

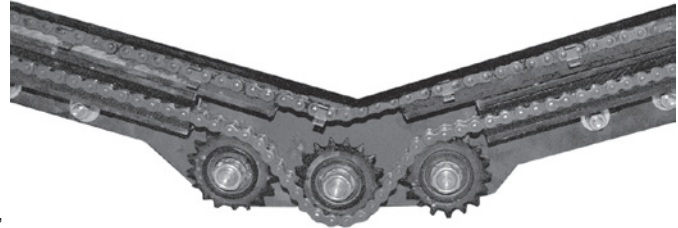
TECHNICAL SHEET



SureTrack™ Motorized Curtain Track System

General Information

SureTrack™ is a customizable motorized track for theatrical, acoustical, and decorative curtains. Its compact serpentine design and high weight capacity enable curtain storage in tight or oddly shaped spaces where standard tracking systems simply won't fit.



Applications

SureTrack is versatile enough to perform in nearly any space, and can be used for many applications including:

- Acoustical curtains
- Theatrical curtains of all sizes
- Divider curtains

Features

Customizable to meet your curtain and travel needs.

Dual roller chain provides positive push/pull action for long-term reliability, unlike typical rope systems.

Sturdy aluminum extrusion supports the operating chain and carriers for smooth, quiet operation.

Fixed center carriers eliminate unsightly curtain clumping.

Compact curtain storage when retracted, parked in straight or serpentine curves.

Direct drive gear motors ensure dependability and accuracy.

Industrial grade limit switches provide long-term reliability.

Safety

Designed and manufactured by Clancy, a company with over rigging expertise since 1885.

Two levels of limit switches with normal travel and overtravel switches using separate, redundant circuits for added security.

Touch safe interior of all electrical enclosures guards to prevent contact with live components per IEC 204-1 Protection.

Chain tensioning system eliminates the need for manual adjustment.

Controls

SureTrack works with the entire range of Clancy automation consoles or push button controls. It can also interface with any modern control system, including SIL3.

Dimensions

SureTrack is built to meet your requirements and dimensions will vary. Contact us for more details.

Loading Information

Loading will vary depending on curtains. Contact Clancy for specific loading information.

Power & Wiring Information

SureTrack is available for virtually any 3-phase voltage worldwide.

Warranty & System Support

Three-Year Warranty against defects in materials or workmanship is provided on all Clancy equipment. Our warranty is contingent on operation by trained personnel and an annual equipment inspection by a Clancy authorized technician.

24/7 factory technical support with additional service and assistance provided by a worldwide network of Clancy authorized dealers.

Inspections and maintenance can be provided through our authorized dealers. A maintenance gallery or other means of access is required.

Ordering Information

SureTrack is customized to your needs. Contact Clancy for custom solutions.

Additional Information

Additional information on Clancy systems is available at www.jrclancy.com. For more information on Clancy control systems visit www.jrclancy.com/controlsystems.asp.



2017-01

TECHNICAL SHEET



Thimbles

- Used to form an eye at the end of a wire rope to prevent deformation and damage to the wire rope.
- Thimbles are galvanized.



Galvanized Thimble
023-250C

Order Information

Number	Description	Weight
023-125CS	1/8" (3.175 mm), Galvanized Cable Thimble	0.04 lb. (0.012 kg)
023-187CS	3/16" (4.76 mm), Galvanized Cable Thimble	0.04 lb. (0.012 kg)
023-250C	1/4" (6.35 mm), Galvanized Cable Thimble	0.04 lb. (0.012 kg)
023-312C	5/16" (7.9 mm), Galvanized Cable Thimble	0.04 lb. (0.012 kg)
023-375CS	3/8" (9.5 mm), Galvanized Cable Thimble	0.08 lb. (0.04 kg)



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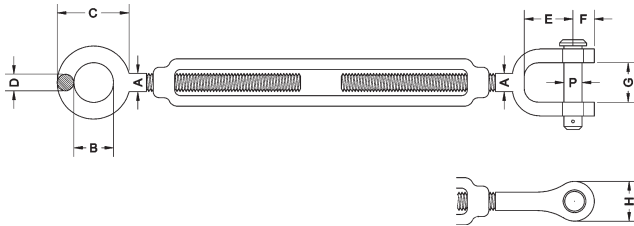
TECHNICAL SHEET



Turnbuckles

- Used for batten trimming or tensioning lines.
- Drop forged turnbuckles meeting the requirements of ASTM F1145-92, Type 1, Grade 1, made in the U.S.
- Hot galvanized finish.
- Other types and sizes are available on special order.

Dimensions



Turnbuckle
032-221J&E

Number	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Dim. F	Dim. G	Dim. H	Dim. P	Closed Length
032-220J&E	5/16" (7.9 mm)	5/8" (15.875 mm)	1-1/4" (31.75 mm)	9/32" (7.1 mm)	7/8" (22.22 mm)	5/16" (7.9 mm)	15/32" (11.9 mm)	5/8" (15.87 mm)	1/4" (6.35 mm)	9-1/8" (232 mm)
032-221J&E	3/8" (9.5 mm)	3/4" (19 mm)	1-1/2" (38 mm)	11/32" (8.7 mm)	1" (25.4 mm)	13/32" (10.31 mm)	1/2" (12.7 mm)	13/16" (20.6 mm)	5/16" (7.9 mm)	11-1/2" (292 mm)
032-221J&J	3/8" (9.5 mm)	—	—	—	1" (25.4 mm)	13/32" (10.31 mm)	1/2" (12.7 mm)	13/16" (20.6 mm)	5/16" (7.9 mm)	11-1/2" (292 mm)
032-222J&E	1/2" (12.7 mm)	1" (25.4 mm)	2" (50.8 mm)	7/16" (11.1 mm)	1-9/32" (32.5 mm)	1/2" (12.7 mm)	5/8" (15.87 mm)	1" (25.4 mm)	7/16" (11.1 mm)	13-1/4" (337 mm)
032-223J&E	1/2" (12.7 mm)	1" (25.4 mm)	2" (50.8 mm)	7/16" (11.1 mm)	1-9/32" (32.5 mm)	1/2" (12.7 mm)	5/8" (15.87 mm)	1" (25.4 mm)	7/16" (11.1 mm)	19-1/4" (489 mm)
032-224J&E	5/8" (15.875 mm)	1-1/4" (31.75 mm)	2-5/16" (58.73 mm)	17/32" (13.5 mm)	1-21/32" (42 mm)	21/32" (16.67 mm)	7/8" (22.32 mm)	1-5/16" (33 mm)	1/2" (12.7 mm)	14-5/8" (371 mm)

Order Information

Number	Description	RWL	Weight
032-220J&E	5/16" x 4-1/2" (7.9 mm x 114 mm) Jaw & Eye Turnbuckle	800 lbs. (362 kg)	0.5 lb. (0.2 kg)
032-221J&E	3/8" x 6" (9.5 mm x 152 mm) Jaw & Eye Turnbuckle	1200 lbs. (544 kg)	1 lb. (0.45 kg)
032-221J&J	3/8" x 6" (9.5 mm x 152 mm) Jaw & Eye Turnbuckle	1200 lbs. (544 kg)	1 lb. (0.45 kg)
032-222J&E	1/2" x 6" (12.7 mm x 152 mm) Jaw & Eye Turnbuckle	2200 lbs. (1000 kg)	2 lbs. (0.9 kg)
032-223J&E	1/2" x 12" (12.7 mm x 305 mm) Jaw & Eye Turnbuckle	2200 lbs. (1000 kg)	2 lbs. (0.9 kg)
032-224J&E	5/8" x 6" (15.875 mm x 152 mm) Jaw & Eye Turnbuckle	3500 lbs. (1587 kg)	2.6 lbs. (1.18 kg)

RWL is based on the manufacturer's 5:1 safety factor.



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2017-01

TECHNICAL SHEET



Rope Locks

- One piece ASTM A536 ductile iron body.
- 10" (254 mm) handle, powder-coated ductile iron, contoured for comfort and ease of use.
- Two iron cams grip rope with socket head adjustment screw for 5/8"-1" (15.875-25.4 mm) rope. Adjustment screw has a nylon tip for quiet operation.
- Integral ears for optional padlock.
- Vinyl coated steel oval locking ring.
- Rubber pad to quiet handle when it is opened.

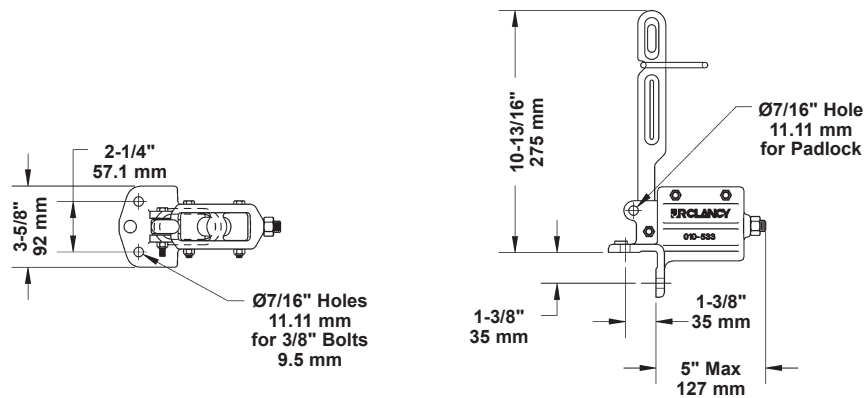
Please Note:

Rope locks are not designed to hold an imbalance of more than 50 lbs. (22.6 kg), nor to be used as a speed control.



Rope Lock
010-533R

Dimensions



Order Information

Number	Description	RWL	Weight
010-533R	Rope Lock	50 lbs. (22.6 kg)	8 lbs. (3.6 kg)
010-PLOCK	Padlock for Rope Lock	—	1 lb. (0.45 kg)
010-533C	Replacement Oval Ring, Vinyl Coated	—	0.1 lb. (0.04 kg)

RWL: RWL is maximum load that can be applied to the rope lock which is in "like new" condition and has been properly installed, maintained, and operated.



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2017-01

TECHNICAL SHEET



SureLock®

- Will not open if the set is more than 50 lbs. (22.6 kg) out of balance, reducing the risk of rigging “runaways”.
- Indicates if the set is balanced, batten heavy, or arbor heavy.
- One piece ASTM A536 ductile iron body.
- 10" (254 mm) handle, powder-coated ductile iron, contoured for comfort and ease of use.
- Two iron cams grip rope with socket head adjustment screw for 5/8"–1" (15.875–25.4 mm) rope. Adjustment screw has a nylon tip for quiet operation.
- Integral ears for optional padlock.
- Vinyl coated steel oval locking ring.
- May be used on 6" (152 mm) centers or more.
- For use in new projects or as an upgrade to existing rigging systems.
- Rubber bumper to quiet handle when it is opened.

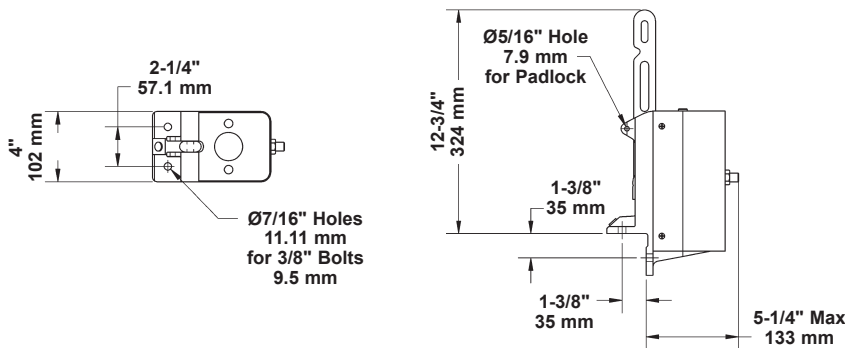
Please Note:

Rope locks are not designed to hold an imbalance of more than 50 lbs. (22.6 kg), nor to be used as a speed control.



**SureLock
010-600R**
US Patent 7,165,295

Dimensions



Order Information

Number	Description	RWL	Weight
010-600R	SureLock	50 lbs. (22.6 kg)	20 lbs. (3.6 kg)
010-PLOCK	Padlock for Rope Lock	–	1 lb. (0.45 kg)
010-533C	Replacement Oval Ring, Vinyl Coated	–	0.1 lb. (0.04 kg)

RWL: RWL is maximum load that can be applied to the rope lock which is in “like new” condition and has been properly installed, maintained, and operated.



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SERVICES



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Wenger delivery and installation services are two great advantages of buying direct. At your option, we will package, ship, and install your order with the care and understanding that only the product's manufacturer can provide. Wenger drivers and installers are experienced professionals who are intent on meeting your needs and providing the service you expect.



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New construction and renovation resources for facility planning.

One of Wenger's strengths is music facility planning. The Music Suite is a complex environment with many different areas and unique dynamics. Wenger provides free Planning Guides that identify and explain these dynamics and needs. Wenger has the experience and resources to assist your design team in planning for music, theatre and athletic facilities. We want to work together to help deliver the best products and services for outstanding education and performance results – and no surprises down the road.

"Wenger's AIA/CES presentation was very informative and worthwhile. Acoustics is a tricky subject – there are many wives' tales and urban legends. We learned the facts, including practical knowledge, rules of thumb and other useful information that will help us explain and defend our designs."

"We continue to choose Wenger products because of the quality of the design. You truly get what you pay for – and Wenger quality is clearly unsurpassed in the industry. Other companies bid lower because their products cost less, because they are worth less."

— Michael Shpur, Architect for School Facilities,
Montgomery County Public Schools, Rockville, Maryland

"I think it's a valuable that Wenger can offer school districts a single source of responsibility capable of delivering an entire package of products and acoustical solutions."

"Wenger's Planning Guide included useful information, such as recommended room sizes and ceiling heights. It was a helpful document, and also provided the music department with documented justification for their requests."

— Michael S. Ruetschle, AIA, Architect
Ruetschle Architects, Dayton, Ohio

"I've been working in this field for almost 30 years – the Wenger Planning Guide has been on my desk for a long time. I use it extensively for all the programming and planning we do. It's an excellent resource."

— Richard T. Connell, AIA, Principal
S/L/A/M Collaborative, Glastonbury, Connecticut

"We try to be good stewards of our client's money. I honestly think that Wenger does some things much better than anybody else. I find Wenger's Planning Guide very helpful when working with school personnel."

— David Minnigan, Senior Design Architect/ Principal
Earl Swensson Associates, Inc., Nashville, Tennessee

"The quality and history of Wenger products speaks for itself. It's worth paying a little bit more when you know something is going to last. Wenger equipment is sturdy and very easy to use."

— Susan Scheibler, Fine Arts Coordinator & Choir Director
Blue Valley Southwest High School, Overland Park, Kansas

"Wenger provides the total package – from well-designed, durable products to planning assistance and expert installation. The Wenger installers were very professional, knowledgeable, efficient and clean. Their caring attitude speaks volumes about the company."

— Earl McConnell, Band Director
East Fairmont High School, Fairmont, West Virginia

"I've purchased Wenger equipment for over thirty years for music programs in Texas, Ohio, Japan, India, Egypt and now Oman. I've learned to trust the quality and durability of the products and the professionalism and integrity of the people at Wenger."

— Tim Willson, Instrumental Music Teacher
American Intl. School of Muscat (TAISM), Oman

"When you think music, you think Wenger. Wenger products last for years, which says a lot about the company behind them. I've known the Wenger name for more than 20 years from teaching, clinics and festivals. The company is an icon of music."

— Wm. Shane Williams, Associate Professor of Music
Lindenwood University, St. Charles, Missouri

"Wenger's Planning Guide was an extremely valuable resource throughout the process – from design through construction. It answered a lot of my questions, including about cubic volume and sound isolation. During construction, the Guide helped me be the on-site music room expert."

— Anthony H. Bailey, Director of Bands
Hart High School, Newhall, California



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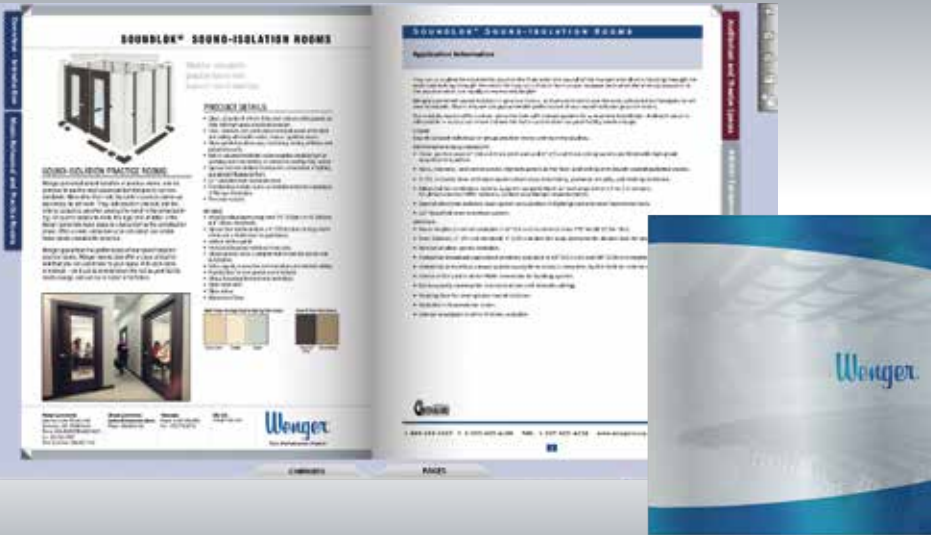
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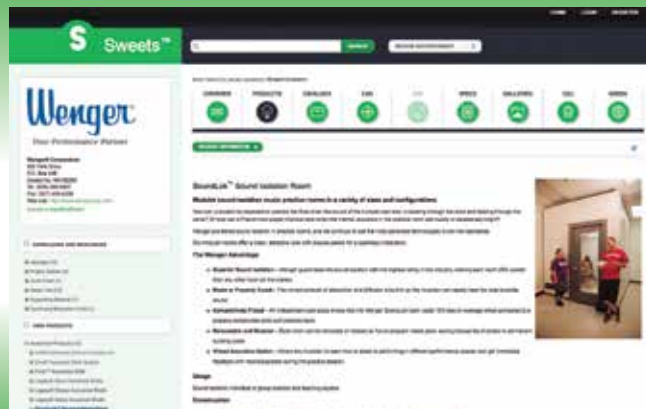
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This is an ideal resource to help you understand how acoustics work within a space so you can achieve the best possible sound quality.



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Your complete guide to understanding all you can do to create a facility that best enhances music teaching and learning.

FACILITY PLANNING GUIDES



WENGER PLANNING GUIDE

Everything you need to understand the new construction process and what you can do to most effectively organize your objectives to make sure your new music facility is the best it can be.



WENGER PERFORMANCE SPACES

Everything you need to understand the new construction process and what you can do to most effectively organize your objectives to make sure your new music facility is the best it can be.



WENGER ATHLETIC FACILITY PLANNING GUIDE

A “best practices” guide for achieving greater efficiencies within the athletic equipment facility.



WENGER ELEMENTARY MUSIC PLANNING GUIDE

What you need to know if you're planning space for beginning students.



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