

SECTION 10 51 62

COMBINATION PADLOCKS

******* Since 1921, Master Lock Company has been providing padlocks and other security products for the construction industry. Products include built-in combination and key-operated locks for all types of lockers, combination padlocks for padlock hasp lockers, and lock management software. This product guide specification section can be used to specify the following combination padlocks that can be used for all lockers with a padlock hasp:**

General security combination padlocks: Models 1502, 1525, 1502LF, 1525LF, 1502LH, and 525LH.

High security combination padlocks: Models 2002, 2010, 2002S, and 2010S.

Smooth spin colored combination padlocks: Model 2076.

The specifier will need to select appropriate products and delete non-applicable models and options. Refer to Master Lock product literature for descriptions and available options. The guide section has been written so that most editing can be accomplished by deleting unnecessary requirements and options. Depending on project requirements, some additional information will need to be added by the specifier. Options are indicated by []. Notes to assist the specifier in selecting options and editing the specification guide are printed in bold and indicated with *****. For final editing, all brackets and notes will need to be deleted from the guide.

PART 1 - GENERAL

1.1 SUMMARY

******* Built-in, combination locks can be factory installed by the locker manufacturer or field installed on either existing or new lockers. Field installed locks can be part of a complete construction project, such as a new school building, or can be purchased directly by the owner and installed by the building maintenance staff. If the locks are to be factory installed, the locks can be specified separately using this guide specification or the lock requirements can be included as part of the locker specification. Edit the following paragraph to reflect project requirements. *******

A. Section includes:

- 1. Portable, combination padlocks for use on padlock hasp type lockers.

******* For both large and small projects, a system to track and manage lockers, locks, and user assignments is essential. Master Lock's LockerManager software is an excellent management tool. Include the following paragraph if LockerManager is specified in this**

section. *****

2. System for recording and managing lockers, locks, and user assignments.

B. Related sections:

******* List other specification sections dealing with work directly related to this section such as the following. *******

1. [Section 10 51 13 - Metal Lockers] [Section 10 51 16 - Wood Lockers]
[Section 10 51 26 - Plastic Lockers] [Section 10 51 43 - Wire Mesh Storage Lockers]: Lockers to receive combination padlocks.

1.2 SUBMITTALS**A. Provide in accordance with Section 01 33 00 - Submittal Procedures:**

1. Product data for locks.

******* Include the following paragraph if LockerManager system is being specified. *******

2. Product data for lock management system describing functions, capacities, and requirements.

B. Provide in accordance with Section 01 78 00 - Closeout Submittals:

1. Printed control chart and text file on disc of serial numbers and lock combinations.

******* Include the following paragraph if Models 1525, 1525LF, 1525LH, 2010, 2010S, and 2076 with key control supervisory access are being specified. *******

2. [2] [_____] each supervisory access keys.

******* Include the following paragraph if LockerManager system is being specified. *******

3. Manuals for locker management system.

PART 2 - PRODUCTS**2.1 ACCEPTABLE MANUFACTURERS**

- A. Master Lock Company, 137 West Forest Hill Avenue, P.O. Box 100367, Oak Creek, Wisconsin 53154; 800-308-9244; www.masterlock.com.
- B. Requests to use equivalent products of other manufacturers shall be submitted in accordance with Section 01 63 00 - Product Substitution Procedures.

******* Select required padlocks from the following articles and delete articles for nonapplicable models. If locks are being specified as part of the locker specification, these articles can be inserted into the locker specification section. *******

2.2 GENERAL SECURITY COMBINATION PADLOCKS

******* Master Lock Company provides these six models of general security combination padlock:**

Model 1502: Padlock with 3/4 inch shackle.

Model 1525: Padlock with 3/4 inch shackle and key supervisory access.

Model 1502LF: Padlock with 1-1/2 inches shackle.

Model 1525LF: Padlock with 1-1/2 inches shackle and key supervisory access.

Model 1502LH: Padlock with 2 inches shackle.

Model 1525LH: Padlock with 2 inches shackle and key supervisory access.

Edit the following to reflect required model. *****

- A. Type: General security, combination padlock; Model [1502] [1525] [1502LF] [1525LF] [1502LH] [1525LH] as manufactured by Master Lock Company.
- B. Construction: Double-reinforced stainless steel case with cold-rolled steel shielding locking mechanism from physical attack.

******* Three shackle lengths are available. Edit the following paragraph to reflect required length and select appropriate model number for Paragraph A. *******

- C. Shackle: Hardened steel resistant to cutting and prying with [3/4] [1-1/2] [2] inches high opening. Fits lockers with 5/16 inch minimum diameter padlock eye.
- D. Combination: 3 digits selected from 40 number dial.
- E. Operation:
 - 1. Dial automatically locks under shackle tension to prevent feeling out the combination.
 - 2. Combination automatically scrambles when lock is closed to prevent accidental opening.

******* Include the following paragraph if Models 1525, 1525LF, and 1525LH are being specified. *******

- F. Provide 5 pin tumbler cylinder on backside of padlock for supervisory access.

******* Master Lock general security padlock dials can be provided with laser-engraved**

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text, custom logos, and integral color. Contact Master Lock Company for available options. Edit and include the following paragraph if custom padlock dials are required.

G. Provide custom designed padlock dials with:

1. Integral color: [__color__] [Selected by [Architect] [Owner] from manufacturer's standard range].
2. Laser engraved text: [__text__] [As designated by [Architect] [Owner]].
3. Custom logo: [As indicated on Drawings.] [As provided by [Architect] [Owner]].

2.3 HIGH SECURITY COMBINATION PADLOCKS

***** **Master Lock Company provides these four models of high security combination padlock:**

Model 2002: Padlock with 1 inch shackle.

Model 2010: Padlock with 1 inch shackle and key supervisory access.

Model 2002S: Padlock with 1/2 inch shackle.

Model 2010S: Padlock with 1/2 inch shackle and key supervisory access.

Edit the following to reflect required model. *****

- A. Type: High security, combination padlock; Model [2002] [2010] [2002S] [2010S] as manufactured by Master Lock Company.
- B. Construction:
 1. Double-reinforced stainless steel outer case with massive die-cast zinc inner case to protect locking mechanism from physical attack.
 2. Dual, deadbolt locking mechanism resists hammering and prying.
 3. Dial fully recessed to resist knock-off and prying attempts.

***** **Two shackle lengths are available. Edit the following paragraph to reflect required length and select appropriate model number for Paragraph A. *******

- C. Shackle: Hardened boron alloy resistant to cutting and prying with [1] [1/2] inch high opening. Fits lockers with 11/32 inch minimum diameter padlock eye.
- D. Combination: 3 digits selected from 40 number dial.
- E. Operation:

1. Dial automatically locks under shackle tension to prevent feeling out the combination.
2. Combination automatically scrambles when lock is closed to prevent accidental opening.

***** **Include the following paragraph if Models 2010 and 2010S are being specified.**

- F. Provide 5 pin tumbler cylinder on backside of padlock for supervisory access.

2.4 SMOOTH SPIN COMBINATION PADLOCKS

- A. Type: General security, combination padlock with smooth, convex rounded design and integral color; Smooth Spin Model 2076 as manufactured by Master Lock Company.
- B. Construction: Durable die-cast zinc body and dial shielding locking mechanism from physical attack.
- C. Shackle: Hardened steel resistant to cutting and prying with 11/16 inch high opening. Fits lockers with 5/16 inch minimum diameter padlock eye.

***** **Smooth Spin Model 2076 padlocks be provided in four colors. Refer to Master Lock product literature for available options.** *****

- D. Integral color: [Green] [Purple] [Red] [Blue] [Selected by [Architect] [Owner] from manufacturer's standard range].
- E. Combination: 3 digits selected from 40 number dial.
- F. Operation:
1. Dial automatically locks under shackle tension to prevent feeling out the combination.
 2. Combination automatically scrambles when lock is closed to prevent accidental opening.
- G. Provide 5 pin tumbler cylinder on backside of padlock for supervisory access.

2.5 LOCKER MANAGEMENT SYSTEM

***** **School and other facility owners must maintain some form of locker and lock management. Often these have been printed paper documents which are time consuming to update and keep current. Lock Master Company supplies locks with an accompanying**

printed control chart and a text file on disc of serial numbers and lock combinations. In addition, Master Lock's LockerManager software is an excellent management tool for tracking and managing locks, user assignments, and lock combinations. System can be supplied with optional handheld operating device. Include and edit this article to specify LockerManager as part of the built-in, combination lock package. *****

- A. Provide computerized lock and locker management system consisting of licensed operating software, [handheld operating device,] quick start guide, and user manual; LockerManager as developed and published by Lock Master Company.
- B. Software: Provided as one calendar year renewable license.
- C. System shall be password protected and run on desktop personal computer (PC) and handheld computers.
- D. System functions:
 - 1. System shall have capacity to register and track the following with search, retrieve, and edit capabilities.
 - a. Locker numbers and locations.
 - b. Locker assignments for both individuals and groups.
 - c. Lock combinations.
 - d. Portable combination padlocks.
 - e. Locker repairs.
 - f. Other user defined data such as schedules, emergency contact information, and fees.
 - 2. Automatically assign lockers and randomize assignments to improve traffic flow.
 - 3. Automatically assign lock combinations.
 - 4. Maintain complete, searchable data files.
 - 5. System shall be capable of expansion.
- E. System requirements:
 - 1. Windows 98 or higher.
 - 2. 20 MB hard drive space.

3. Apple Macintosh running Virtual PC and Windows 98 or higher.

******* LockerManager can be supplied with handheld operating devices. Include the following paragraph to specify an optional Palm Powered Handheld device. *******

- F. Provide locker management system with Palm Tyngsten E handheld operating device with power adapter and USB cable.

******* Include the following paragraph to specify an optional Pocket PC Handheld device. *******

- G. Provide locker management system with HP iPAQ rz1710 Pocket PC with AC adapter and USB synchronization cable.

PART 3 - EXECUTION

3.1 DELIVERY AND INSTALLATION

- A. Deliver portable, combination padlocks in manufacturer's unopened, labelled cartons.

******* Include the following paragraph if padlocks are to be provided to Owner for placement on lockers. *******

- B. Transfer combination padlocks to Owner at location designated by Architect. Obtain receipt from Owner's representative.

******* Include the following paragraph if padlocks are to be installed on lockers at the site. *******

- C. In accordance with locker and lock number chart, field install padlocks on [existing lockers.] [new lockers specified in [Section 10 51 13 - Metal Lockers] [Section 10 51 16 - Wood Lockers] [Section 10 51 26 - Plastic Lockers] [Section 10 51 43 - Wire Mesh Storage Lockers] [Section [] - [].]

******* Include the following paragraph if LockerManager system is being specified. *******

- D. Demonstrate locker management system to Owner's representative: Cover data input, search, retrieve, edit, assignment, and other system functions.

END OF SECTION