

## **CARGO SECUREMENT SAFETY INFORMATION RECOMMENDED OPERATING PRACTICES FOR TIE-DOWNS**

- Select a synthetic web tie-down having suitable characteristics for the type of load, environment and attachment to vehicle anchor point. Fittings shall have the required shape and size to attach properly to the vehicle anchor points.
- Identify the working load limit (WLL) marked on the synthetic web tie-down by the manufacturer. If the required markings are illegible or missing, remove from service. Read all warnings and/or instructions provided by the manufacturer.
- Identify the working load limit (WLL) of the vehicle anchor points. If no rating is visible contact the vehicle manufacturer for tie-down instructions. The lesser-rated working load limit (WLL), whether that is the anchor point or the synthetic web tie-down, shall determine the working load limit (WLL) of the securement system.
- Synthetic web tie-downs shall be attached to the vehicle and positioned in accordance with applicable regulations for the commodity being transported to prevent against shifting and/or loss of cargo.
- Synthetic web tie-downs should not be dropped or dragged on the floor, ground or any abrasive surface.
- Synthetic web tie-downs shall not be shortened, joined, repaired or lengthened by being tied into knots.
- Synthetic web tie-downs should not be pulled from under cargo when the cargo is resting on the tie-down.
- Synthetic web tie-downs shall always be protected from corners, edges, protrusions, and abrasive surfaces with edge protection that resists abrasion, cutting or crushing.
- Synthetic web tie-downs designed to secure cargo shall not be used for lifting, lowering or suspending cargo or for towing.
- Before operating any synthetic web tie-down assembly the user shall secure his footing to prevent slipping or falling. In adverse weather conditions, including freezing temperatures, additional weather conditions, including freezing temperatures, additional caution should be exercised.
- When using winch or ratchet straps a minimum of two (2) and a maximum of four (4) wraps of webbing shall be on the winch or ratchet mandrel. Excessive wraps of webbing on the mandrel may reduce the working load limit (WLL) of the synthetic web tie-down and may interfere with proper operation.
- Synthetic web tie-downs shall be used, inspected and adjusted during the transportation of cargo per applicable federal, state, provincial, local and industry regulations.

### **ADDITIONAL TIEDOWNS REQUIRED**

Additional tie-downs may be required based on the specific vehicle, cargo, tie-downs, and securement configuration involved. The individual securing the load ultimately takes responsibility for proper cargo securement.

If the cargo is prevented from moving forward by a headerboard, bulkhead, other secured cargo, or other appropriate blocking devices, then you must use at least one tie-down for every 10 feet of cargo or part thereof.

If forward movement is NOT prevented, then you must use at least the following number of tie-downs, based on 49 CFR §393.110(b);

| <b>IF THE ARTICLE IS</b>  | <b>USE AT LEAST</b>  |
|---|--|
| 5 Feet or Shorter and 1,100 Pounds or Lighter                             | 1 Tiedown  |
| 5 Feet or Shorter and Over 1,100 Pounds                                   | 2 Tiedowns   |
| Longer than 5 Feet but less than or equal to 10 Feet No Matter the Weight | 2 Tiedowns   |
| Longer than 10 Feet   | 2 Tiedowns, plus 1 additional for every additional 10 feet or part thereof |



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## **CARGO SECUREMENT REMOVAL CRITERIA**

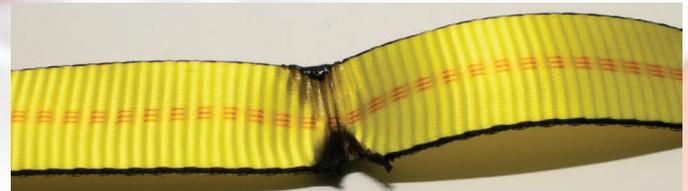
The entire tie down must be inspected before each use and it shall be removed from service if ANY of the following are detected:

- If tie down identification tag is missing or not readable.
- Holes, tears, cuts, snags or embedded materials.
- Broken or worn stitches in the load bearing splices.
- Knots in any part of the webbing.
- Acid or alkali burns.
- Melting, charring or weld spatters on any part of the webbing.
- Excessive abrasive wear or crushed webbing.
- Signs of ultraviolet (UV) light degradation.
- Distortion, excessive pitting, corrosion or other damage to buckles or end fitting(s).
- Any conditions which cause doubt as to the strength of the tie down.

**SNAGS**



**MELTING OR CHARRING**



**KNOTS**



**CUTTING**



## 1 & 2 INCH RATCHET STRAPS

Ratchet Straps are easy to use and quickly tighten to the contour of the load. Our ratchet straps are fabricated with high strength polyester webbing that has been treated for abrasion resistance. All ratchet straps are labeled to meet CVSA guidelines, CHP standards, DOT regulations and WSTDA recommended standards.



### 1 Inch Ratchet Straps

| Part Number | Strap Length | Buckle Style | End Fittings     | Working Load Limit (lbs.) |
|-------------|--------------|--------------|------------------|---------------------------|
| R2706SH     | 6'           | Ratchet      | Coated S-Hook    | 800                       |
| R2710SH     | 10'          | Ratchet      | Coated S-Hook    | 800                       |
| R2715SH     | 15'          | Ratchet      | Coated S-Hook    | 800                       |
| R2706WH     | 6'           | Ratchet      | Coated Wire Hook | 800                       |
| R2710WH     | 10'          | Ratchet      | Coated Wire Hook | 800                       |
| R2715WH     | 15'          | Ratchet      | Coated Wire Hook | 800                       |
| CB506SH     | 6'           | Cam          | Coated S-Hook    | 500                       |
| CB510SH     | 10'          | Cam          | Coated S-Hook    | 500                       |
| CB515SH     | 15'          | Cam          | Coated S-Hook    | 500                       |
| CB506WH     | 6'           | Cam          | Coated Wire Hook | 500                       |
| CB510WH     | 10'          | Cam          | Coated Wire Hook | 500                       |
| CB515WH     | 15'          | Cam          | Coated Wire Hook | 500                       |

### 2 Inch Ratchet Straps

| Part Number | Strap Length | Buckle Style      | End Fittings        | Working Load Limit (lbs.) |
|-------------|--------------|-------------------|---------------------|---------------------------|
| R5027FH     | 27'          | Long Wide Ratchet | Flat Hook           | 3,335                     |
| R5030FH     | 30'          | Long Wide Ratchet | Flat Hook           | 3,335                     |
| R5027WH     | 27'          | Long Wide Ratchet | Wire Hook           | 3,335                     |
| R5030WH     | 30'          | Long Wide Ratchet | Wire Hook           | 3,335                     |
| R5027CE     | 27'          | Long Wide Ratchet | 18" Chain Extension | 3,335                     |
| R5030CE     | 30'          | Long Wide Ratchet | 18" Chain Extension | 3,335                     |
| R5027FSH    | 27'          | Long Wide Ratchet | Flat Snap Hook      | 3,335                     |
| R5030FSH    | 30'          | Long Wide Ratchet | Flat Snap Hook      | 3,335                     |
| R5027TSH    | 27'          | Long Wide Ratchet | Twisted Snap Hook   | 3,335                     |
| R5030TSH    | 30'          | Long Wide Ratchet | Twisted Snap Hook   | 3,335                     |
| R5027DR     | 27'          | Long Wide Ratchet | Stamped D-Ring      | 3,335                     |
| R5030DR     | 30'          | Long Wide Ratchet | Stamped D-Ring      | 3,335                     |

### Self Contained Ratchet Straps

| Part Number | Web Width | Strap Length | End Fittings    | Working Load Limit (lbs.) |
|-------------|-----------|--------------|-----------------|---------------------------|
| SCR2706SH   | 1"        | 6'           | Coated S-Hook   | 800                       |
| SCR2715SH   | 1"        | 15'          | Coated S-Hook   | 800                       |
| SCR5027FH   | 2"        | 27'          | Flat Hook       | 3,335                     |
| SCR5030FH   | 2"        | 30'          | Flat Hook       | 3,335                     |
| SCR5027WH   | 2"        | 27'          | Wire Hook       | 3,335                     |
| SCR5030WH   | 2"        | 30'          | Wire Hook       | 3,335                     |
| SCR5027CE   | 2"        | 27'          | Chain Extension | 3,335                     |
| SCR5030CE   | 2"        | 30'          | Chain Extension | 3,335                     |



### Motorcycle Tiedowns



| Part Number | Description   | Working Load Limit (lbs.) |
|-------------|---|---------------------------|
| R2706SH-MS  | 1" X 6' Motorcycle Ratchet Strap w/ 12" Extension Soft Loop from S-Hook; 9" fixed end length    | 800                       |
| CB506SH-MS  | 1" X 6' Motorcycle Cam Buckle Strap w/ 12" Extension Soft Loop from S-Hook; 9" fixed end length | 500                       |
| MST118      | 1" X 18" Soft Loop  | 1,000                     |



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## 3 & 4 INCH RATCHET STRAPS

### 3 Inch Ratchet Straps

| Part Number | Strap Length | Buckle Style        | End Fittings        | Working Load Limit (lbs.) |
|-------------|--------------|---------------------|---------------------|---------------------------|
| R7527FH     | 27'          | Long Handle Ratchet | Flat Hook           | 5,400                     |
| R7530FH     | 30'          | Long Handle Ratchet | Flat Hook           | 5,400                     |
| R7527WH     | 27'          | Long Handle Ratchet | Wire Hook           | 5,400                     |
| R7530WH     | 30'          | Long Handle Ratchet | Wire Hook           | 5,400                     |
| R7527CE     | 27'          | Long Handle Ratchet | 18" Chain Extension | 5,400                     |
| R7530CE     | 30'          | Long Handle Ratchet | 18" Chain Extension | 5,400                     |
| R7527DR     | 27'          | Long Handle Ratchet | Forged D-Ring       | 5,400                     |
| R7530DR     | 30'          | Long Handle Ratchet | Forged D-Ring       | 5,400                     |

### 4 Inch Ratchet Straps

| Part Number | Strap Length | Buckle Style        | End Fittings        | Working Load Limit (lbs.) |
|-------------|--------------|---------------------|---------------------|---------------------------|
| R10027FH    | 27'          | Long Handle Ratchet | Flat Hook           | 5,400                     |
| R10030FH    | 30'          | Long Handle Ratchet | Flat Hook           | 5,400                     |
| R10027WH    | 27'          | Long Handle Ratchet | Wire Hook           | 6,600                     |
| R10030WH    | 30'          | Long Handle Ratchet | Wire Hook           | 6,600                     |
| R10027CE    | 27'          | Long Handle Ratchet | 18" Chain Extension | 5,400                     |
| R10030CE    | 30'          | Long Handle Ratchet | 18" Chain Extension | 5,400                     |
| R10027DR    | 27'          | Long Handle Ratchet | Forged D-Ring       | 5,400                     |
| R10030DR    | 30'          | Long Handle Ratchet | Forged D-Ring       | 5,400                     |

### Ordering Notes

When ordering 1" straps, a 9" fixed end is standard. Standard webbing color is Black; other colors including Blue and Camo are available.

When ordering 2", 3", or 4" straps, an 18" fixed end is standard, except the chain extension straps which have a 33" fixed end. Standard webbing color is a highly visible yellow webbing. All our 2", 3" and 4" tie-down straps are made of polyester webbing with special edge yarns that provide superb resistance to wear for longer assembly life.

All American Industrial working load limits are based on 1/3 of the assembly breaking strength. All ratings are based on a straight tensile pull.



### WARNING

U.S. Department of Transportation regulations, 49 CFR, Part 393, Paragraph 393.102(b) requires that: "The aggregate working load limit of the tie down assemblies used to secure an article against movement in any direction must be at least 1/2 times the weight of that article."

## WINCH STRAPS

| Part Number | Web Width | Strap Length | End Fitting         | Working Load Limit (lbs.) |
|-------------|-----------|--------------|---------------------|---------------------------|
| WS227FH     | 2"        | 27'          | Flat Hook           | 3,335                     |
| WS230FH     | 2"        | 30'          | Flat Hook           | 3,335                     |
| WS227WH     | 2"        | 27'          | Wire Hook           | 3,335                     |
| WS230WH     | 2"        | 30'          | Wire Hook           | 3,335                     |
| WS227CE     | 2"        | 27'          | 18" Chain Extension | 3,335                     |
| WS230CE     | 2"        | 30'          | 18" Chain Extension | 3,335                     |
| WS227DR     | 2"        | 27'          | Stamped D-Ring      | 3,335                     |
| WS230DR     | 2"        | 30'          | Stamped D-Ring      | 3,335                     |
| WS327FH     | 3"        | 27'          | Flat Hook           | 5,400                     |
| WS330FH     | 3"        | 30'          | Flat Hook           | 5,400                     |
| WS327WH     | 3"        | 27'          | Wire Hook           | 5,400                     |
| WS330WH     | 3"        | 30'          | Wire Hook           | 5,400                     |
| WS327CE     | 3"        | 27'          | 18" Chain Extension | 5,400                     |
| WS330CE     | 3"        | 30'          | 18" Chain Extension | 5,400                     |
| WS327DR     | 3"        | 27'          | Stamped D-Ring      | 5,400                     |
| WS330DR     | 3"        | 30'          | Stamped D-Ring      | 5,400                     |
| WS327       | 3"        | 27'          | For winch to winch  | 5,400                     |
| WS330       | 3"        | 30'          | For winch to winch  | 5,400                     |
| WS427FH     | 4"        | 27'          | Flat Hook           | 5,400                     |
| WS430FH     | 4"        | 30'          | Flat Hook           | 5,400                     |
| WS427WH     | 4"        | 27'          | Wire Hook           | 6,600                     |
| WS430WH     | 4"        | 30'          | Wire Hook           | 6,600                     |
| WS427CE     | 4"        | 27'          | 18" Chain Extension | 5,400                     |
| WS430CE     | 4"        | 30'          | 18" Chain Extension | 5,400                     |
| WS427DR     | 4"        | 27'          | Stamped D-Ring      | 5,400                     |
| WS430DR     | 4"        | 30'          | Stamped D-Ring      | 5,400                     |
| WS427       | 4"        | 27'          | For winch to winch  | 5,400                     |
| WS430       | 4"        | 30'          | For winch to winch  | 5,400                     |

Winch straps provide the strength and durability demanded in flatbed tie-down applications. All winch straps are labeled to meet CVSA guidelines, CHP standards, DOT regulations and WSTDA recommended standards.



### **WARNING**

U.S. Department of Transportation regulations, 49 CFR, Part 393, Paragraph 393.102(b) requires that: "The aggregate working load limit of the tie down assemblies used to secure an article against movement in any direction must be at least 1/2 times the weight of that article."



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## E-SERIES LOGISTIC STRAPS & HARDWARE

Logistic straps are designed for use in interior van loading requirements.

All standard logistic straps have a 4' fixed end and adjustable ends are sewn captivated.

Logistic strap webbing is color coded to length: 12 ft = Yellow, 16 ft = grey, 20 ft = Blue.

| Part Number | Web Width (in) | Strap Length (ft) | Buckle Style     | End Fittings     | Working Load Limit (lbs.) |
|-------------|----------------|-------------------|------------------|------------------|---------------------------|
| R5312SEF    | 2              | 12                | Interior Ratchet | Spring E-Fitting | 1,466                     |
| R5316SEF    | 2              | 16                | Interior Ratchet | Spring E-Fitting | 1,466                     |
| R5320SEF    | 2              | 20                | Interior Ratchet | Spring E-Fitting | 1,466                     |
| CB312SEF    | 2              | 12                | Cam              | Spring E-Fitting | 800                       |
| CB316SEF    | 2              | 16                | Cam              | Spring E-Fitting | 800                       |
| CB320SEF    | 2              | 20                | Cam              | Spring E-Fitting | 800                       |



EFR-2



SEF1017



| Part Number | Description   | Break Strength (lbs.) |
|-------------|---|-----------------------|
| RTO-6       | 6" Rope Tie-Off w/ spring e-fitting & d-ring                  | 4,400                 |
| EFR-2       | E-track fitting w/ 2" Round Ring                              | 5,500                 |
| HET-5P      | 5 foot section of 12 gauge steel horizontal e-track (painted) |                       |
| WBES        | Wood beam end socket  |                       |
| SEF1017     | 1 pc spring e-fitting   | 4,400                 |



HET-5P



RTO-6



WBES

## AUTO TRANSIT & AXLE STRAPS



Car hauler wheel straps go over the tire and utilize three cleated rubber blocks that mesh with the tread to keep the strap centered and secured. Auto transit ratchet straps are used in combination with our Axle straps and provide your vehicle security on the road.

Axle Straps are designed to wrap around a car's rear axle, chassis or other attachment point and provide you a quick and easy anchoring point for keeping your car secure.

| Part Number     | Description   | Web Width (in) | Strap Length (ft) | Buckle Style             | End Fittings       | Working Load Limit (lbs.) |
|-----------------|---|----------------|-------------------|--------------------------|--------------------|---------------------------|
| R5406FSH        | Auto Transit  | 2              | 6                 | Short Handle Ratchet     | Flat Snap Hooks    | 3,335                     |
| R5408FSH        | Auto Transit  | 2              | 8                 | Short Handle Ratchet     | Flat Snap Hooks    | 3,335                     |
| R5406TSH        | Auto Transit  | 2              | 6                 | Short Handle Ratchet     | Twisted Snap Hooks | 3,335                     |
| R5408TSH        | Auto Transit  | 2              | 8                 | Short Handle Ratchet     | Twisted Snap Hooks | 3,335                     |
| AXLE 2          | 2' Axle Strap w/ cordura wear pad   | 2              | 2                 | N/A                      | Stamped D-Rings    | 3,335                     |
| AXLE 3          | 3' Axle Strap w/ cordura wear pad   | 2              | 3                 | N/A                      | Stamped D-Rings    | 3,335                     |
| AT-SJ100X10     | Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) swivel j-hook   | 2              | 10                | N/A                      | Swivel J-Hook      | 3,335                     |
| AT-SJ100X12     | Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) swivel j-hook   | 2              | 12                | N/A                      | Swivel J-Hook      | 3,335                     |
| AT-SJ100X14     | Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) swivel j-hook   | 2              | 14                | N/A                      | Swivel J-Hook      | 3,335                     |
| AT-SJ200X10     | Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) fixed swivel hook, (1) floating                               | 2              | 10                | N/A                      | Swivel J-Hook      | 3,335                     |
| AT-SJ200X12     | Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) fixed swivel hook, (1) floating                               | 2              | 12                | N/A                      | Swivel J-Hook      | 3,335                     |
| AT-SJ200X14     | Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) fixed swivel hook, (1) floating                               | 2              | 14                | N/A                      | Swivel J-Hook      | 3,335                     |
| AT-WH100X10     | Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) wire hook   | 2              | 10                | N/A                      | Wire Hook          | 3,335                     |
| AT-WH100X12     | Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) wire hook   | 2              | 12                | N/A                      | Wire Hook          | 3,335                     |
| AT-WH100X14     | Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) wire hook   | 2              | 14                | N/A                      | Wire Hook          | 3,335                     |
| AT-WH200X10     | Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) fixed wire hook, (1) floating                                 | 2              | 10                | N/A                      | Wire Hook          | 3,335                     |
| AT-WH200X12     | Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) fixed wire hook, (1) floating                                 | 2              | 12                | N/A                      | Wire Hook          | 3,335                     |
| AT-WH200X14     | Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) fixed wire hook, (1) floating                                 | 2              | 14                | N/A                      | Wire Hook          | 3,335                     |
| R50-AT-SJ300X10 | Car Hauler Ratchet Strap w/ (3) rubber blocks captivated, (2) fixed swivel hooks, (1) floating, R50 ratchet, 9" fixed end | 2              | 10                | Long Wide Handle Ratchet | Swivel J-Hook      | 3,335                     |
| R50-AT-SJ300X12 | Car Hauler Ratchet Strap w/ (3) rubber blocks captivated, (2) fixed swivel hooks, (1) floating, R50 ratchet, 9" fixed end | 2              | 12                | Long Wide Handle Ratchet | Swivel J-Hook      | 3,335                     |
| R50-AT-SJ300X14 | Car Hauler Ratchet Strap w/ (3) rubber blocks captivated, (2) fixed swivel hooks, (1) floating, R50 ratchet, 9" fixed end | 2              | 14                | Long Wide Handle Ratchet | Swivel J-Hook      | 3,335                     |
| R50-AT-WH300X10 | Car Hauler Ratchet Strap w/ (3) rubber blocks captivated, (2) fixed wire hooks, (1) floating, R50 ratchet, 9" fixed end   | 2              | 10                | Long Wide Handle Ratchet | Wire Hook          | 3,335                     |
| R50-AT-WH300X12 | Car Hauler Ratchet Strap w/ (3) rubber blocks captivated, (2) fixed wire hooks, (1) floating, R50 ratchet, 9" fixed end   | 2              | 12                | Long Wide Handle Ratchet | Wire Hook          | 3,335                     |
| R50-AT-WH300X14 | Car Hauler Ratchet Strap w/ (3) rubber blocks captivated, (2) fixed wire hooks, (1) floating, R50 ratchet, 9" fixed end   | 2              | 14                | Long Wide Handle Ratchet | Wire Hook          | 3,335                     |



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## TIE DOWN HARDWARE



2 INCH RATCHET W/SWIVEL HOOK



COATED S HOOK

### 1 INCH TIE DOWN HARDWARE

| Part Number | Description                        | Break Strength (lbs.) |
|-------------|------------------------------------|-----------------------|
| SH250P      | Coated S-Hook                      | 2,400                 |
| SH253P      | Light Duty Coated S-Hook           | 1,500                 |
| CB5         | Standard Cam Buckle                | 1,500                 |
| CB6         | Light Duty Cam Buckle              | 550                   |
| SCR27       | Self Contained Wide Handle Ratchet | 4,400                 |
| R27         | Wide Handle Ratchet                | 4,400                 |
| R27-I       | Wide Handle Ratchet                | 3,300                 |

### 2 INCH TIE DOWN HARDWARE

| Part Number | Description                        | Break Strength (lbs.) |
|-------------|------------------------------------|-----------------------|
| FH-039      | Flat Hook                          | 11,000                |
| FSH31       | Flat Snap Hook                     | 11,000                |
| TSH31       | Twisted Snap Hook                  | 11,000                |
| CE18        | 18" Chain Extension                | 16,200                |
| GH          | Grab Hook w/ Pear Link             | 16,200                |
| WH-071      | Wire Hook                          | 6,600                 |
| WH-073      | Wire Hook (3 3/8" ovr)             | 11,000                |
| WH-074      | Wire Hook (4 3/8" ovr)             | 11,000                |
| SJH-051     | Swivel J-Hook                      | 11,000                |
| RB          | Rubber Block                       | N/A                   |
| WA          | Web Adjuster                       | 10,000                |
| DR61        | Stamped D-Ring                     | 10,000                |
| CH          | Cluster Hook                       | 11,000                |
| CB3         | Cam Buckle                         | 2,420                 |
| R51-SJH     | Wide Handle Ratchet w/ Swivel Hook | 11,000                |
| R53         | Interior Wide Handle Ratchet       | 4,400                 |
| R54         | Short Standard Handle Ratchet      | 11,000                |
| SCR50       | Self Contained Wide Handle Ratchet | 11,000                |
| R50         | Long Wide Handle Ratchet           | 11,000                |



## TIE DOWN HARDWARE



FLAT HOOK

| 3 Inch Hardware |                     |                       |
|-----------------|---------------------|-----------------------|
| Part Number     | Description         | Break Strength (lbs.) |
| FH-043          | Flat Hook           | 17,600                |
| WH-075          | Wire Hook           | 22,000                |
| 3-CE18-DR       | 18" Chain Extension | 16,200                |
| DR3             | Forged Delta Ring   | 18,000                |
| R75             | Long Handle Ratchet | 22,000                |



GRAB HOOK  
W/PEAR LINK



WIRE HOOK



CHAIN  
EXTENSION

| 4 Inch Hardware |                     |                       |
|-----------------|---------------------|-----------------------|
| Part Number     | Description         | Break Strength (lbs.) |
| FH-043          | Flat Hook           | 17,600                |
| WH-076          | Wire Hook           | 22,000                |
| 4-CE18-DR       | 18" Chain Extension | 16,200                |
| DR4             | Forged Delta Ring   | 20,000                |
| R100            | Long Handle Ratchet | 22,000                |



FORGED DELTA RING