# TIE DOWN CAPACITY CHART

<table>
<thead>
<tr>
<th>PART DESCRIPTION</th>
<th>BREAK STRENGTH CAPACITY* (LBS)</th>
<th>WLL* WORKING LOAD LIMIT (LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-40 SHACKLE / BASE IN RECESSED CUP</td>
<td>6000</td>
<td>2000</td>
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<tr>
<td>10-50 SHACKLE / BASE IN RECESSED CUP</td>
<td>30000</td>
<td>10000</td>
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<tr>
<td>239-L WIDE FLANGE TIE-DOWN</td>
<td>5000</td>
<td>1665</td>
</tr>
<tr>
<td>300-C RING &amp; CLAMP</td>
<td>1500</td>
<td>500</td>
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<tr>
<td>300-L RING &amp; CLAMP</td>
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<td>500</td>
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<tr>
<td>300-S RING &amp; CLAMP</td>
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<tr>
<td>300-SP RING &amp; CLAMP</td>
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<tr>
<td>300-U RING &amp; CLAMP</td>
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<td>400</td>
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<tr>
<td>300-F FLUSH MOUNT TIE DOWN</td>
<td>1500</td>
<td>500</td>
</tr>
<tr>
<td>39-F TIE-DOWN WITH SPACER</td>
<td>1200</td>
<td>400</td>
</tr>
<tr>
<td>39 TIE-DOWN</td>
<td>1200</td>
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</table>

Note: Unless otherwise specified, all ratings are based on a straight (static) tensile pull. Load direction other that straight may result in a significant reduction in breaking strength capacity.

*Rating Parameters: To provide a reliability factor to manufacturers for the differences between static testing and dynamic (real world) loading on load securement components, rating parameters have been established. Breaking Strength Capacity is the maximum load that an assembly will withstand before failing. Working Load Limit (WLL) is defined as the maximum load that a component or assembly should receive during regular use. WLL is typically calculated as one-third (1/3) of Breaking Strength Capacity. (CVSA/FHWA out of service criteria) A working knowledge of the breaking strength capacity & working load limit (WLL) in securement assemblies is necessary to properly securing a load.

Maintenance: The normal usage of tie down assemblies subjects them to wear and deterioration which can reduce the breaking strength capacity. It is recommended that all assemblies be regularly inspected.

Any worn, deformed, misused, or overloaded assemblies should be replaced immediately.

**Warning: Do not modify or alter products** - The modification and/or alteration of any component or assembly may cause serious injury or death.
TIE DOWNS – CARGO CONTROL

10-40 TIE DOWN (ANCHOR POINT)
- Steel construction/zinc finish
- 360° base rotation
- Available in stainless steel
- Available with/without mounting holes
- Available with/without drain holes

10-50 TIE DOWN (ANCHOR POINT)
- ASTM A27 GR 70-40 construction
- Rust inhibitor & self colored finish
- Drain holes
- 360° base rotation
- 150° swing on horizontal axis
- Available as loose components or assembled
TIE DOWNs – CARGO CONTROL

239-L WIDE FLANGE TIE DOWN (ANCHOR POINT)
- Steel construction/zinc finish

300-C RING & CLAMP
- Steel construction/zinc finish
* Used in the 300-F flush mount assembly

300-L RING & CLAMP
- Steel construction/zinc finish
- Butt welded ring
* Available with cup
* 300-L w/cup special order item

300-S RING & CLAMP
- Steel construction/zinc finish
- 1/4” mounting holes
- Butt welded ring
No. 172
Similar to No. 170 above; has rectangular pan and malleable iron ring.

No. 3-172
Similar to No. 172, except with return spring for ring.

Weight: .73 lbs.
Finish: Zinc-plated
Maximum load: 2,000 lbs.

No. 172-SS
Available in stainless steel.
TIE DOWNS – CARGO CONTROL

RECESSED ROPE RING
601 Zinc plated steel
601-SS Stainless steel
For use with 3/8" plywood. Manufactured from 14 ga. steel or 14 ga. 304 stainless steel. Pan recessed 3/8" to allow mounting direct to truck body or trailer body cross members. 3 Mounting holes countersunk for 1/4" screws.

Specifications:
Overall length — 5"
Overall width — 3-1/2"
Depth — 3/8"
Finish — Zinc plated or Stainless steel
Weight — 1/2 lb.

RECESSED ROPE RING
No. 701
For use with 1/4" plywood. Manufactured from 16 ga. steel. Solid one piece construction dish design assures strong retention of 1/4" dia. D-Ring. 3-1/2" dia., 2 mounting holes for 1/4" screws.

Finish — Zinc plated
Weight — 1/2 lb.

TRIM RING
No. 701-201
Black plastic trim ring for surface mounting of the 701 rope ring. 4.2" diameter, .3" thick.

ECONOMY ROPE RING
No. 700
Surface mount rope ring and mounting strap.

Specifications:
Bracket — 10 Ga. Steel
"D" Ring — .225 Dia. Steel
Finish — Zinc Plated
No. 7462
Steel-formed hook.
Weight: .3 lbs. each
Finish: Zinc-plated

No. 164
Weight: .19 lbs. each
Finish: Plain

No. 2AL-166-AH
Aluminum hook with two holes.

No. 166-AH
26" Holes, Plain finish.
Weight: .2 lbs. each

No. 166-A
No holes, plain finish.

No. 166-CH
Steel-formed hook, shown.
(11/32" holes).
Weight: .5 lbs. each
Finish: 166-B/166-C – Plain
166-BH/166-CH – Zinc-plated

No. 1-166-C
Same as 166-C except overall height reduced by 2" to 3-1/2". Available as request quote.
Weight: .34 lbs.
Finish: Plain steel
TIE DOWNNS – CARGO CONTROL

No. 6411-B

Steel Footman Loops

Simple shallow loop design to hold straps, webbing, or other flat material. All holes accept No. 10 screw. Available in carbon steel or stainless steel. Finish: Zinc-plated

No. 6411-D
No. 6411-DSS

No. 6411-E
No. 6411-ESS

No. 6411-G
No. 6411-GSS

No. 6411-H
No. 6411-HSS

No. 6411-J
Steel Footman Loops

Simple shallow loop designed to hold straps, webbing or other flat material. All holes accept No. 10 screws.

Finish: Zinc-plated

No. 218

P/N | DIM B
---|---
218 | 0.31
218-44 | 0.44

No. 549637

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<tr>
<th>PART NUMBER</th>
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<th>DIM F</th>
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No. 1233889

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<td>.209/.229</td>
</tr>
<tr>
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<td>.209/.229</td>
</tr>
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<tr>
<td>12338839-10</td>
<td>0.63</td>
<td>.230/.250</td>
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</table>
TIE DOWNS – CARGO CONTROL

TOWING HOOKS

2799, Mini Towing Hook
Drop forged, light duty tow hook. Maximum working load 10,000 lbs. Finishes: 2799-B (Black) 2799-C (Chrome)

2800-A RH, Towing Hook
Furnished in right and left handed patterns. The 2800-A is one of a series of "Cleveland" Towing Hooks developed to fit a wide range of applications. The 2800-A has two mounting holes. The thickness through the center boss is 1.500". This Towing Hook is drop forged from special bar quality steel, lightweight with exceptional strength. Maximum working load 13,500 lbs.

2801-A LH, Towing Hook
For heavy-duty applications. Available in right and left hand patterns. This Towing Hook has two mounting holes. The Hook is supported by an exceptionally long bearing surface. Thickness through the center boss is 1.562". Drop forged special bar quality steel gives excellent strength to weight ratio. Maximum working load 44,600 lbs.

Note: Maximum working loads are given for use with SAE Grade 8 Fasteners. "Do Not" use a lesser grade fastener unless the maximum working load is reduced proportionally. This pertains to all Towing Devices shown in this catalog.
TIE DOWNS – CARGO CONTROL

TOWING HOOKS

2801-C LH, Towing Hook
This heavy duty application Tow Hook is furnished in right and left hand patterns. The 2801-C has three mounting holes and features a short overall length of 6.437". Drop forged of quality-controlled steel. Maximum working load 42,500 lbs.

2801-GM, Universal Towing Hook
Universal hook is drop forged from quality-controlled steel. The short pad allows the hook to be mounted where space constrains the size of the hook that can be used for the application. Maximum working load 30,000 lbs.

Note: Maximum working loads are given for use with SAE Grade 8 Fasteners. "Do Not" use a lesser grade fastener unless the maximum working load is reduced proportionally. This pertains to all Towing Devices shown in this catalog.
TIE DOWNS – CARGO CONTROL

Series E Track Vertical
2019-060

Series E Track Vertical
Material.................. High strength steel; 11 gauge
Minimum Yield .......... 50,500 psi
Finish.................... Gray, Powder Coat
Length.................... 5 ft., 1.5 m
Weight.................... 6.8 lbs., 3.1 lbs.

Side Mount
12004SP

Bolt-On, Webbing Winch - Side Mount. Bolt-on winches are designed to bolt onto side frame and bottom flange of side rail.

Specifications:
A: 7 3/4 inches B: 4 7/8 inches C: 6 inches D: 4 5/8 inches

Working Load Limit: 5,500 lbs., 2500 kgs.

Weight: 8.4 lbs., 3.8 kgs.

Series E Track Horizontal
43002-060

Series E Track Horizontal
Material.................. High Strength Steel; 12 gauge
Minimum Yield .......... 50,000 psi
Finish.................... Gray, Powder Coat
Length.................... 5 ft., 1.5 m
Weight.................... 8.0 lbs., 3.6 lbs.

Standard
1820

Fixed Weld-on winches are designed to be permanently mounted in a fixed position.

Specifications:
A: 7 3/4 inches B: 4 7/8 inches C: 5 1/2 inches
D: 3 1/2 inches

Working Load Limit: 5,500 lbs., 2500 kgs.

Weight: 8.2 lbs., 3.7 kgs.
12' Series E or A Logistic Strap – 651201

2" Logistic Strap with 910 Cam Buckle and 4900 Webbing
12' Series E or A Strap with FE8306-1 Spring Fitting

**Working Load Limit:** 835 lbs., 380 kgs.

**Weight:** 1.6 lbs., 0.7 kgs.

27' Strap – 222720

Winch Strap - 2" Webbing with 1015 Flat Hook and 2004 Webbing - 27 ft. Also available in extra-tough Rhino web, part # 262720

**Working Load Limit:** 3,335 lbs., 1515 kgs.

**Weight:** 2.6 lbs., 1.2 kgs.

3" Ratchet Strap – 552721

3" Ratchet Strap with 806 Long Handle and 3004 Webbing

**Strap Length:** 27'

**End Hardware:** 1021 Flat Hook

**Working Load Limit:** 5,400 lbs., 2,455 kgs.

**Weight:** 12.4 lbs., 5.6 kgs.

Forged D-Rings

**BYB38**
- Forged from C-1045 steel
- 1/2" diameter ring
- Includes weld-on or 2-Hole mounting bracket
- Forged bracket is 2" wide & 11/16" thick
- 2-Hole bracket is 1-3/4" wide & 3/16" thick w/ square mounting holes to accept 3/8" carriage bolts
- Made in USA

**BYB40**
- Forged from C-1045 steel
- 5/8" diameter ring w/ mounting bracket
- Forged bracket is 2-1/2" wide & 3/8" thick
- Made in USA

**BYB48**
- Forged from C-1045 steel
- 1" diameter ring w/ mounting bracket
- Forged bracket is 2-1/8" wide & 3/8" thick
- Made in USA

D-Rings are not approved for overhead use.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Ring Diameter</th>
<th>I.D. (H X W)</th>
<th>W.L.L.</th>
<th>Ultimate Breaking Strength</th>
<th>Weight</th>
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<tbody>
<tr>
<td>BYB38</td>
<td>Forged D-Ring w/2-Hole Mounting Bracket</td>
<td>1/2&quot;</td>
<td>2-1/2&quot; x 2-3/8&quot;</td>
<td>4,080 lbs.</td>
<td>11,781 lbs.</td>
<td>1.0 lbs.</td>
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<tr>
<td>BYB40</td>
<td>Forged D-Ring w/Mounting Bracket</td>
<td>5/8&quot;</td>
<td>3&quot; x 3&quot;</td>
<td>6,130 lbs.</td>
<td>18,390 lbs.</td>
<td>2.0 lbs.</td>
</tr>
<tr>
<td>BYB48</td>
<td>Forged D-Ring w/Mounting Bracket</td>
<td>1&quot;</td>
<td>3&quot; x 3&quot;</td>
<td>15,586 lbs.</td>
<td>46,760 lbs.</td>
<td>4.2 lbs.</td>
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### 566 Standard

#### Plain Pattern

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<td>3</td>
<td>.375</td>
<td>2.062</td>
<td>1.000</td>
<td>1.656</td>
<td>2.100</td>
<td>5.000</td>
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<td>2.062</td>
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<td>9.200</td>
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<td>30.000</td>
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<td>10</td>
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<td>4.281</td>
<td>1.812</td>
<td>3.562</td>
<td>12.000</td>
<td>39.400</td>
<td>Blank 1-8</td>
<td>2.062</td>
<td>7.880</td>
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* loads in pounds

odd size Eye Bolts, metric, stainless and alloy are available upon request

### 567 Standard

#### Shoulder Pattern

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<td>1.187</td>
<td>.781</td>
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<td>.875</td>
<td>Wx</td>
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<td>.312</td>
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<td>.875</td>
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<td>.968</td>
<td>900</td>
<td>4.500</td>
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<td>5.000</td>
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<td>190.000</td>
<td>Blank 2-4 1/2</td>
<td>3.000</td>
<td>32.500</td>
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</table>

* loads in pounds

odd size Eye Bolts, metric, stainless and alloy are available upon request

### 572-E Eye Bolt

- Material C-1029 - C1035
- Heat Treated to 149-170 Brinnel
- Mechanical Properties:
  - Steel of fine or medium grain size
  - Tensile 65,000 to 80,000 PSI
  - Yield 30,000 PSI min.
  - Elongation 30% min.
- Available machined only
- General Forge Tolerances +.031 - .016

### 580-4 Eye Nut

- Made from C1018 - C1030
- Available with the following threads:
  - 3/8-16 UNC 2B
  - 3/8-24 UNF 2B
  - 7/16-14 UNC 2B
  - 7/16-20 UNF 2B
  - 1/2-13 UNC 2B
- General Forge Tolerances +/- .031
- Not Stocked, priced on application.
Eye Bolts - 304 Stainless Shoulder Pattern
Drop Forged Stainless Steel, Passivated & Electropolished
ASTM A193-B8
Fully Threaded: UNC-2A

<table>
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<th>Shank Dia. &amp; Thread UNC-2A</th>
<th>Shank Length</th>
<th>Eye I.D.</th>
<th>Eye O.D.</th>
<th>Weight</th>
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<td>3/4</td>
<td>1 3/16</td>
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<td>1 21/32</td>
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<td>KF2030-SS</td>
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<td>1 13/16</td>
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<td>KF2032-SS</td>
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<td>2 3/16</td>
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Blanks in stock (Not passivated or electropolished). Inquire for price.

Eye Bolts - 304 Stainless Long Shanks Shoulder Pattern
Drop Forged Stainless Steel, Passivated & Electropolished
ASTM A193-B8
Fully Threaded: UNC-2A

<table>
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<tr>
<th>Stock No.</th>
<th>Shank Dia. &amp; Thread UNC-2A</th>
<th>Shank Length</th>
<th>Eye I.D.</th>
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<td>1 3/16</td>
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Blanks in stock (Not passivated or electropolished). Inquire for price.
**Safety Hoist Rings**

Material: 4140 High Strength Alloy Steel  
Heat Treated to 180,000 p.s.i.

Finish: Black oxide per mil spec.  
(Cad plate available)

1. These safety engineered hoist rings will swivel 360° and pivot 180°. They are the ultimate safety hoisting devices.
2. Safety factor: 5 to 1  
Magnetic particle inspected before assembled.  
Certified heat treatment  
Metric thread sizes available

* Item with Long U-bars

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