

## LOAD HUGGER BASICS

Lift-All Load Hugger cargo control and load securement products offer the van and flatbed operator a wide variety of options to meet U.S. DOT, FMCSA (Federal Motor Carrier Safety Administration), and CVSA (Commercial Vehicle Safety Alliance) requirements.\*

### Features and Benefits

- Meets all U.S. DOT, FMCSA, and CVSA regulations.
- Low stretch polyester webbing allows for more secure cargo control.
- All hooks and chain assemblies equal or exceed webbing strength.
- Webbing is soft and comes in varying widths; will not damage expensive cargo.
- Large selection; choose the capacity that is right for the load carried.
- Lightweight and easy to handle.
- Large selection of end fastenings, winches, and ratchets make choosing and using the correct assembly easy.
- Custom lengths available.

### Inspection Criteria

Remove from service if any of the following are visible:

- Cuts, holes, surface abrasion or crushed areas.
- Burns or chemical damage.
- Separation of load carrying stitch pattern.
- Hardware, fittings or tensioning devices which are broken, bent, twisted, cracked, or have nicks and gouges.
- Knotted webbing.
- Splices or other makeshift repairs.
- The loop ends are damaged.

See illustrations of damaged webbing on pages 34 & 35; damaged chain and hooks on pages 107 and 108.

### Environmental Considerations

- Synthetic webbing severely degrades at temperatures above 200°F.
- Prolonged exposure to ultraviolet light adversely affects synthetic webbing. Tiedown straps become bleached and stiff when exposed to sunlight or arc welding.
- Many acids, alkalis, and chemicals have an adverse effect on nylon and polyester. See chart on page 16.

### Safe Operating Practices

- Inspect tiedown straps and all hardware when the load is first being secured.
- Re-tighten tiedowns periodically during use.
- Never use *Load Huggers* for anything other than securing cargo. Do not use for lifting loads or towing vehicles.
- The load should be securely blocked and stabilized before tensioning the straps.
- Never exceed rated capacities.
- Use caution when tossing straps and chain anchor assemblies over a load.
- Check installation of portable winches. The ratchet pawl must be at the top of the toothed wheel and bolts tight against the rub rail.
- Weld-on winches should not be cracked.
- Corner protectors or sling protection must be used to protect *Load Huggers* from edges and abrasion.
- All hardware must be in line with the direction of pull to achieve full strength.

### Definitions

**Working Load Limit (WLL):** The maximum load that may be applied to an assembly or component in straight tension.

**Ultimate Breaking Strength:** The load at which an assembly or component will fail in testing.

Department of Transportation Regulations 393.102(b) uses the Ultimate Breaking Strength to calculate the number of tiedown assemblies required to secure a load.

Lift-All publishes Ultimate Breaking Strength for this purpose only. For safety, we recommend that only Working Load Limits are used for your calculations.



**Always protect synthetic slings from being cut by corners and edges. See the Sling Protection section in this catalog.**

Always protect tiedowns from being cut by corners and edges.

\*CVSA (Commercial Vehicle Safety Alliance) [www.cvsa.org](http://www.cvsa.org)

General Information  
Webbing  
Round Slings  
Sling Protection  
Wire Rope  
Chain Slings  
Rigging Hardware  
Mesh Slings  
Load Huggers  
Tow Products  
Lift-All Hoists  
Hoist Rings  
Plate Clamps  
Lifting Devices

## WEB SELECTION

Two **styles** of webbing are available for our 2" through 4" ratchet assemblies and winch straps:  
**Standard Yellow** and **Hi-Vis Tuff-Edge®**

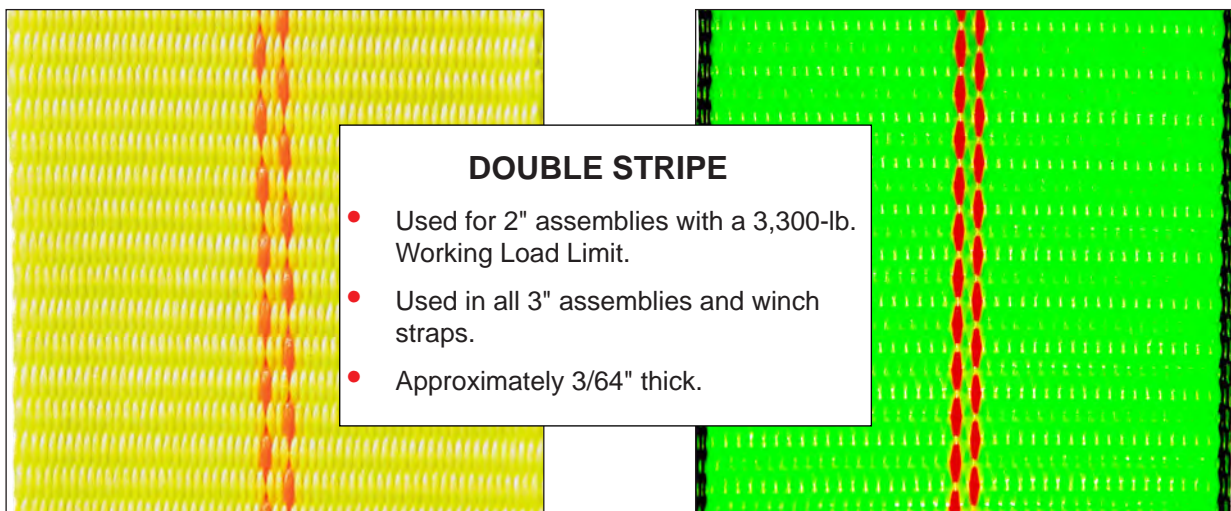
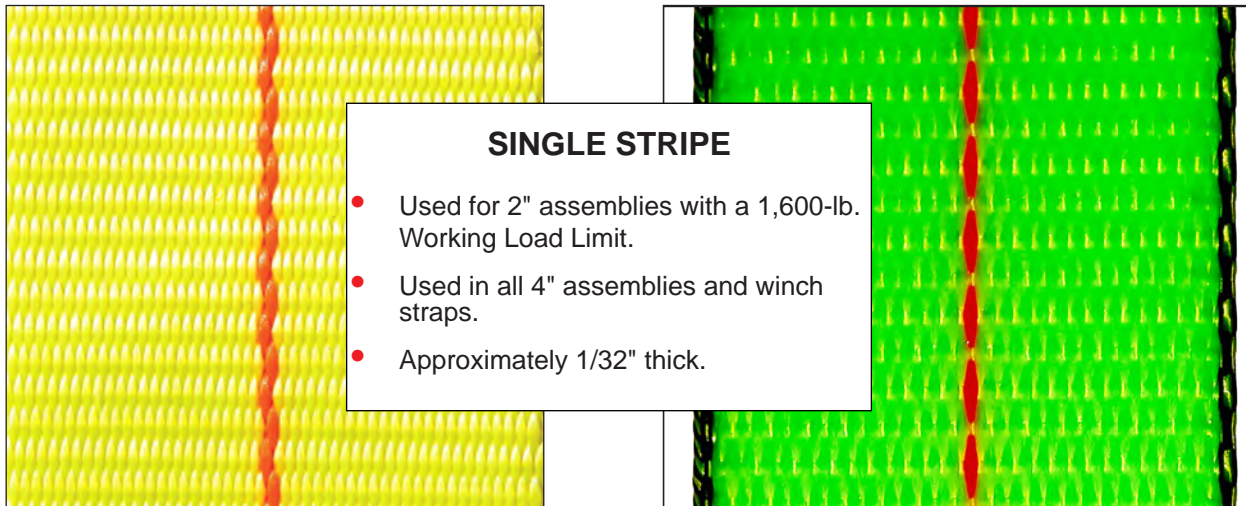
Two strength classes are available for 2" assemblies:  
**Single Stripe** and **Double Stripe**

### STANDARD TIEDOWN WEBBING

This polyester webbing offers exceptional value for everyday use.

### HI-VIS TUFF-EDGE WEBBING

The brightness of our polyester **Hi-Vis Tuff-Edge** webbing allows for increased visibility on the roadside. Special black polymer edge yarns provide 32% better edge cut resistance for longer assembly life.



## RATCHET ASSEMBLIES

### Type A Assemblies

One-piece assemblies for use without end fittings.  
Length measured from ratchet mandrel to end of webbing.



### Type B Assemblies

Two-piece assemblies with one piece attached to the ratchet, and the other end is adjustable. Numerous end fittings are available to handle any requirements. (See following pages).

### Series 1,000

- 1" Wide Polyester Webbing
- Ultimate strength: 2,100-lbs.\*
- Working Load Limit: 700-lbs.\*



### Series 5,000

- 2" Wide Polyester Webbing
- Ultimate strength: 5,000-lbs.
- Working Load Limit: 1,600-lbs.



### Series 10,000

- 2" Wide Polyester Webbing
- Ultimate strength: 10,000-lbs.
- Working Load Limit: 3,300-lbs.



### Series 15,000

- 3" or 4" Wide Polyester Webbing
- Ultimate strength: 15,000-lbs.
- Working Load Limit: 5,000-lbs.

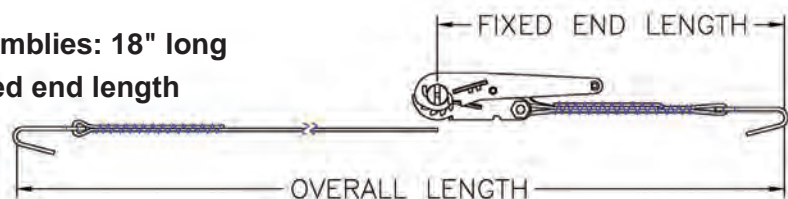


### Type B Measurement - FIXED END

2" Wide Assemblies: 16" long









1" Wide, 3" Wide, and 4" Wide Assemblies: 18" long

Note: Chain Anchor adds 14" to fixed end length



\* Series 1,000 Exception: Series 1,000 Ratchet Assembly with Flat Hooks, Ultimate Breaking Strength is 1,000-lbs. and Working Load Limit is 330-lbs.

## 1" TIEDOWN ASSEMBLIES

		Series 1,000						
		WEB WIDTH & TYPE	1" Wide Polyester					
			Buckle	Part No. 10' Length**	Part No. 15' Length**	Weight (lbs.)		
General Information		1" Cam Buckle						1" Ratchet
	Web Slings	WORKING LOAD LIMIT	Flat Hook***	Ratchet	60102	6A102	1.1	WORKING LOAD LIMIT
Round Slings		330 lbs.		Cam	60110	6A110	.7	700 lbs.
Sling Protection		ULTIMATE BREAKING STRENGTH	Stamped Snap Hook	Ratchet	60104	6A104	1.5	ULTIMATE BREAKING STRENGTH
Wire Rope		1,000 lbs.		Cam	60113	6A113	1.0	2,100 lbs.
Chain Slings			U-Hook	Ratchet	60101	6A101	1.1	
Rigging Hardware				Cam	60109	6A109	.7	
Mesh Slings			Hook & Keeper	Ratchet	60105	6A105	1.5	
Load Huggers				Cam	60114	6A114	1.1	
Tow Products			Open Hook	Ratchet PE Hook	60103	6A103	1.7	
Lift-All Hoists				Ratchet ZP Hook	60106	6A106	1.6	
Hoist Rings			PE Coated (shown) Zinc Plated (Optional)	Cam PE Hook	60111	6A111	1.3	
Plate Clamps			Type A (Endless)	Cam ZP Hook	60112	6A112	1.2	
Lifting Devices				Ratchet	60107	6A107	.9	
				Cam	60108	6A108	.5	

\* Ultimate breaking strength of assembly when new.

\*\* Non-standard lengths available

\*\*\* Exception: Series 1,000 Ratchet Assembly with Flat Hooks, WLL is 330-lbs. and Ultimate Breaking Strength is 1,000-lbs.

### POPULAR



1" X 15' Ratchet Tiedown Assembly: 16-pc. Display Box  
**6A103B**

Both assemblies have PE coated open hooks.

Our 1" X 12' Retractable Ratchet Tiedown Assembly in a convenient 2-Pack.

**60203**

### RETRACTABLE

