

## Load Hugger BASICS

*Lift-All Load Hugger* cargo control and load securement products are of the highest quality. They offer the van and flatbed operator a wide variety of options to meet Department of Transportation and CVSA requirements.\*

### Features, Advantages and Benefits

#### Promotes Safety

- Flexible, conforms to and controls the load
- Ratchet assembly allows easy adjustment
- All hooks and chain assemblies equal or exceed strength of webbing
- Meet all DOT (Department of Transportation) and CVSA (Commercial Vehicle Safety Alliance) regulations.

#### Saves Money

- Soft and wide - does not damage costly cargo
- Large selection - choose the capacity that's right for the load carried

#### Saves Time

- Light weight, easy to handle
- Large selection of end fastenings, winches and ratchets make choosing and using the correct assembly easy

### 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
- Damaged loop ends

See illustrations of damaged webbing on page 40 & 41; damaged chain and hooks on page 109 and 110.

### Definitions

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

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

Department of Transportation Regulations 393, 102(b) use Ultimate Breaking Strength to calculate the number of tiedown assemblies required to secure a load.

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

### Environmental Considerations

- Nylon and polyester are seriously degraded at temperatures above 200° F.
- Prolonged exposure to Ultraviolet light adversely affects nylon and polyester. Tie down 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 24.

### Safe Operating Practices

- Inspect tie down straps and all hardware when load is first being secured.
- Re-tighten tie downs periodically during run.
- Never use *Load Huggers* for anything other than securing cargo. Do not use for lifting loads or towing vehicles.
- 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 - ratchet pawl must be at top of toothed wheel and bolts tight against the rub rail.
- Weld-on winches should not be cracked.
- Corner protectors and wear pads must be used to protect *Load Huggers* from edges and abrasion.
- All hardware must be in line with direction of pull to achieve full strength.

\* CVSA - Commercial Vehicle Safety Alliance  
Phone: 202-775-1623 Fax: 202-775-1624  
www.cvsa.org

## WEB SELECTION

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

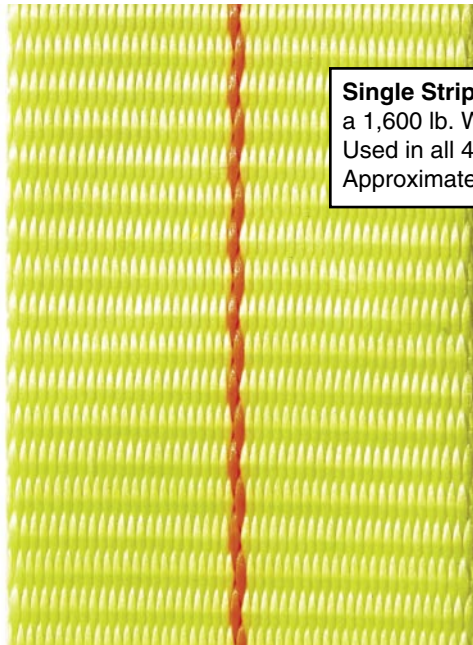
Two **strength classes** are available for 2" assemblies: **Single Stripe** and **Double Stripe**.

### Standard Polyester Tiedown Webbing

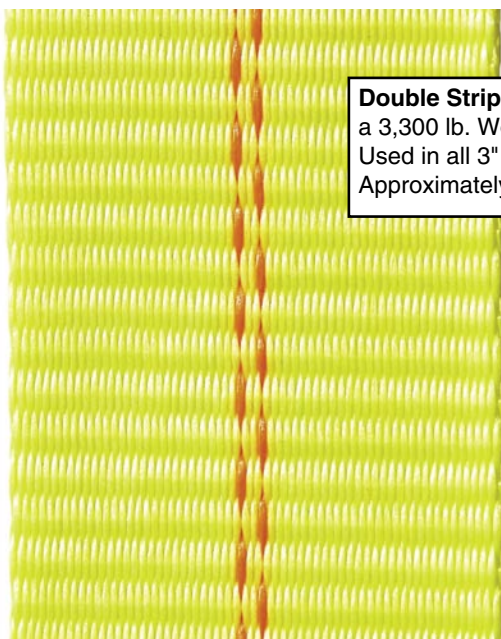
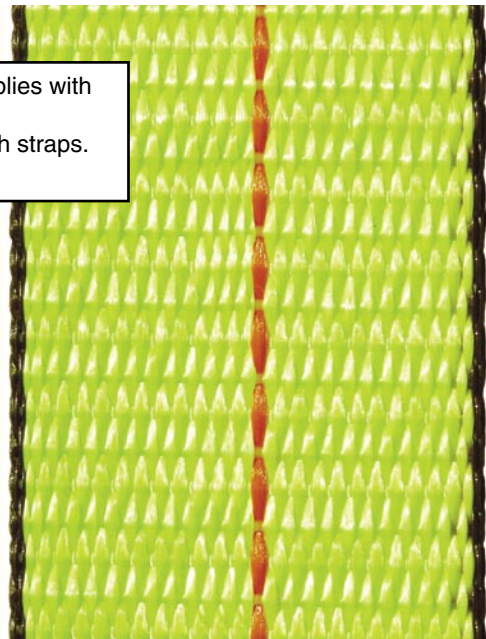
This webbing offers exceptional value for everyday use.

### Hi-Vis Tuff-Edge Polyester Tiedown Webbing

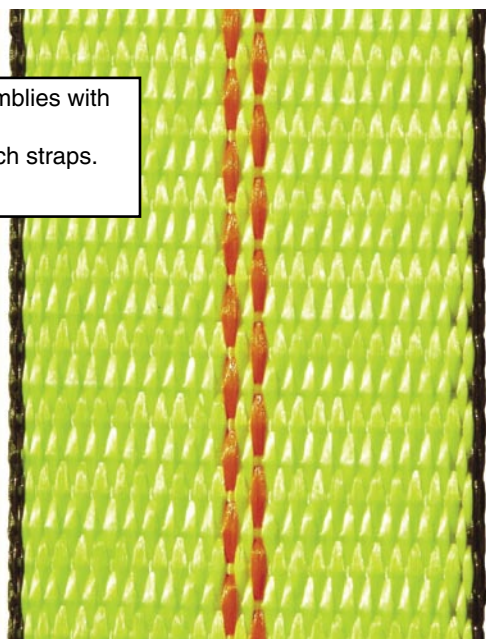
The brightness of our new **Hi-Vis Tuff-Edge** tiedowns makes them more visible, easier to locate and harder to lose.



**Single Stripe** - Used for 2" assemblies with a 1,600 lb. Working Load Limit. Used in all 4" assemblies and winch straps. Approximately 1/32" thick.



**Double Stripe** - Used for 2" assemblies with a 3,300 lb. Working Load Limit. Used in all 3" assemblies and winch straps. Approximately 3/64" thick.



## RATCHET ASSEMBLIES

### Type A Assemblies

One piece (endless) assembly for use without end fittings.  
Length measured from ratchet mandrel to end of webbing.



### Type B Assemblies

Two piece assemblies with one fixed length of webbing and one adjustable length of webbing. Numerous end fittings are available to handle any requirements.  
(See following pages)

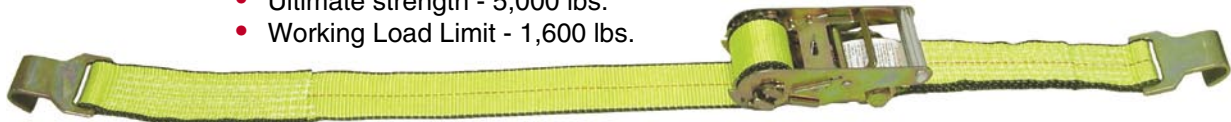
#### Series 1,000

- 1" wide polyester webbing
- Ultimate strength - 2,100 lbs. \*
- Working Load Limit - 700 lbs. \*



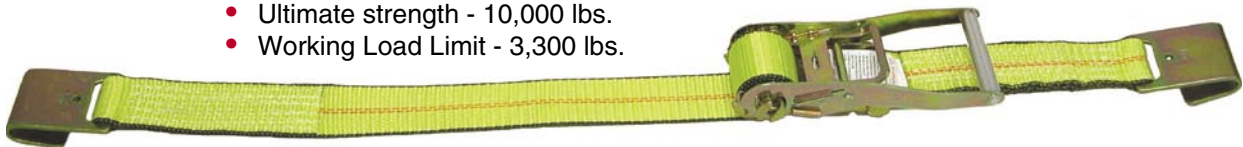
#### Series 5,000

- 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.



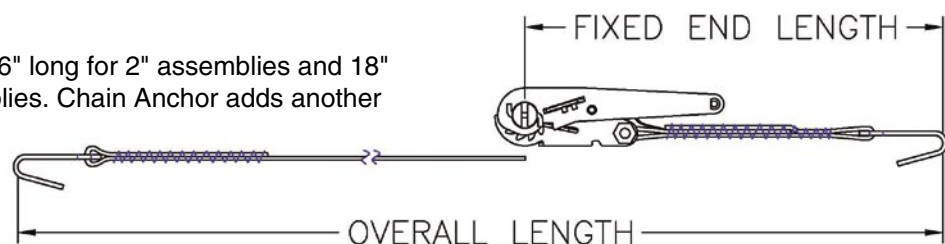
#### Series 15,000

- 3" or 4" wide polyester webbing
- Ultimate strength - 15,000 lbs.
- Working Load Limit - 5,000 lbs.



### Type B Measurement

Fixed end is approximately 16" long for 2" assemblies and 18" long for 1", 3" and 4" assemblies. Chain Anchor adds another 14" to fixed end length.



\* When using flat hooks in Series 1,000, ultimate strength is 1,000 lbs., working load limit is 330 lbs.