

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 16 & 17; damaged chain and hooks on page 85.

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 14.

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 should be used to protect *Load Huggers* from sharp 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**.

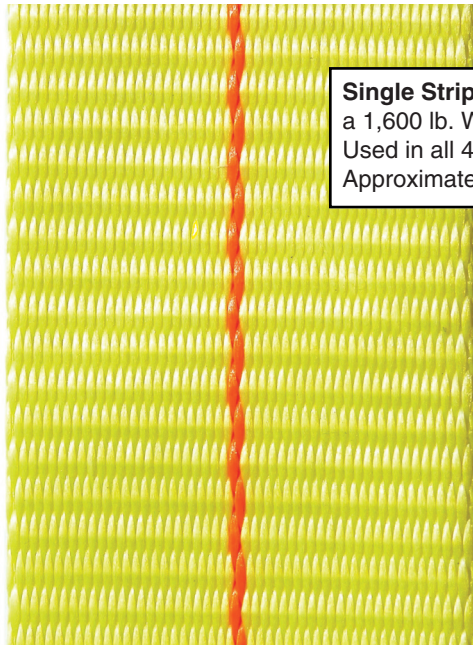
Two **strength classes** are available for 2" assemblies: **Single Stripe** and **Double Stripe**.

Standard Polyester Tiedown Webbing

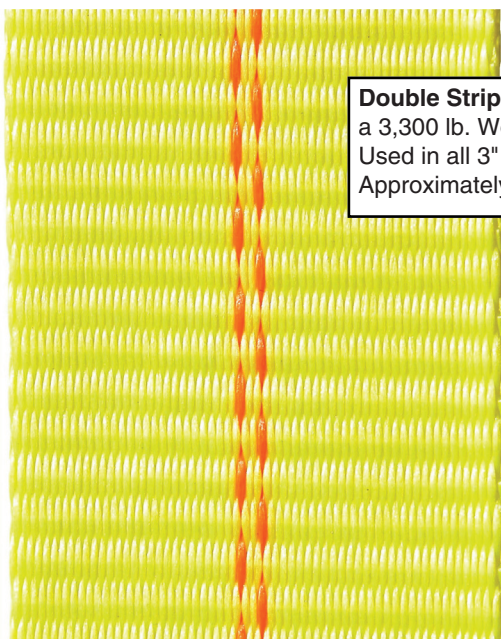
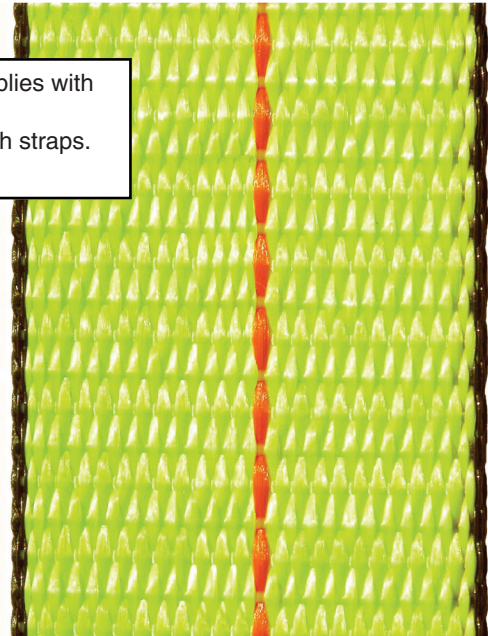
This webbing offers exceptional value for everyday use.

Hi-Vis Tuff-Edge Polyester Tiedown Webbing

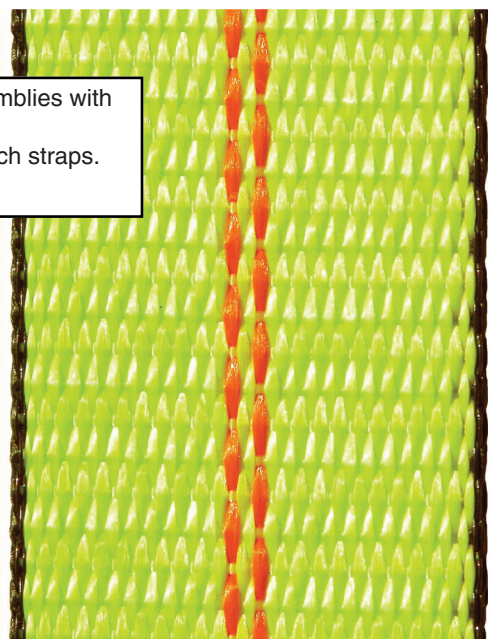
The brightness of our new **Hi-Vis Tuff-Edge** tiedowns makes them more visible, easier to locate and harder to lose.



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.

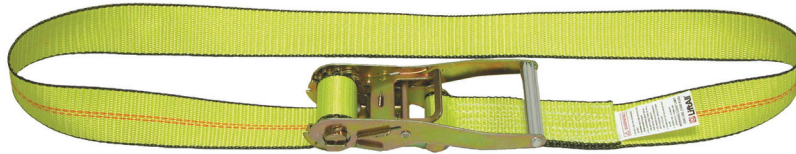


Double Stripe - Used for 2" assemblies with a 3,300 lb. Working Load Limit. Used in all 3" assemblies and winch straps. Approximately 3/64" thick.



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. *



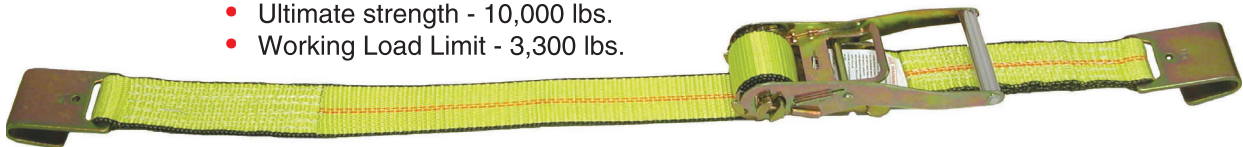
Series 5,000

- 2" wide polyester webbing
- Ultimate strength - 5,000 lbs.
- Working Load Limit - 1,600 lbs.



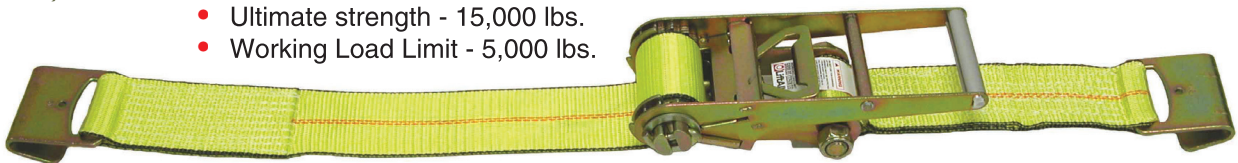
Series 10,000

- 2" wide polyester webbing
- Ultimate strength - 10,000 lbs.
- Working Load Limit - 3,300 lbs.



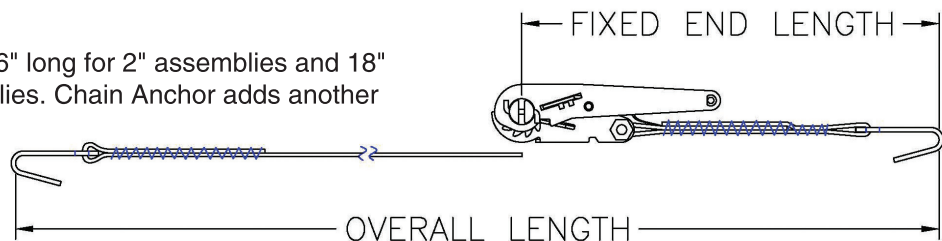
Series 15,000

- 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.

1" TIEDOWN ASSEMBLIES

Webbing Ultimate Strength * (lbs.) Working Load Limit (lbs.)	Series 1,000			
	1" Wide Polyester 2,100 with Ratchet** / 1,000 with Cam 700 with Ratchet** / 330 with Cam			
	Buckle	Part No. 10 Ft. Lgth.	Part No. 15 Ft. Lgth.	Weight (lbs.)
Flat Hook ** 	Ratchet	60102	6A102	1.1
	Cam	60110	6A110	.7
Stamped Snap Hook 	Ratchet	60104	6A104	1.5
	Cam	60113	6A113	1.0
U-Hook 	Ratchet	60101	6A101	1.1
	Cam	60109	6A109	.7
Hook & Keeper 	Ratchet	60105	6A105	1.5
	Cam	60114	6A114	1.1
Open Hook (PE Coated or Zinc Plated)  (PE Coated Hook shown)	Ratchet PE Hook	60103	6A103	1.7
	Ratchet ZP Hook	60106	6A106	1.6
	Cam PE Hook	60111	6A111	1.3
	Cam ZP Hook	60112	6A112	1.2
Type A (Endless)  (Series 1,000 Cam Buckle shown)	Ratchet	60107	6A107	.9
	Cam	60108	6A108	.5

Note: Because end terminations vary proportionally with size, check with Lift-All if critical dimensions are required. Non-standard lengths available upon request.






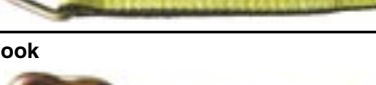


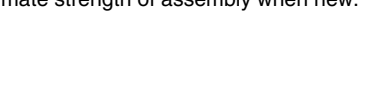
* Ultimate strength of assembly when new.

** Exception: When used with Flat Hooks, 1" Ratchet Assembly rating is 1,000 lbs. ULTIMATE STRENGTH and 330 lbs. WORKING LOAD LIMIT.



Our popular 1" Ratchet Tiedown with vinyl coated Open Hooks is available in 15 foot lengths in a 16 piece display box (Part No. 6A103B)








RATCHET ASSEMBLIES

Webbing Ultimate Strength * Working Load Limit	Length	Series 5,000			Series 10,000		
		2" Wide Polyester 5,000 lbs. 1,600 lbs.			2" Wide Polyester 10,000 lbs. 3,300 lbs.		
		Standard Part No.	Tuff-Edge Part No.	Weight (lbs.)	Standard Part No.	Tuff-Edge Part No.	Weight (lbs.)
Flat Hook  (Series 10,000 shown)	27'	60501	TE60501	4.6	61001	TE61001	5.8
	30'	60502	TE60502	4.8	61002	TE61002	6.0
Stamped Triangle  (Series 5,000 shown)	27'	60503	TE60503	4.2	61003	TE61003	5.2
	30'	60504	TE60504	4.4	61004	TE61004	5.4
Stamped Snap Hook  (Series 10,000 shown)	27'	60505	TE60505	4.6	61005	TE61005	6.2
	30'	60506	TE60506	4.8	61006	TE61006	6.4
Twisted Snap Hook  (Series 10,000 shown)	27'	60507	TE60507	5.2	61007	TE61007	5.6
	30'	60508	TE60508	5.4	61008	TE61008	5.8
Forged Snap Hook  (Series 10,000 shown)	27'	60509	TE60509	5.8	61009	TE61009	6.4
	30'	60510	TE60510	6.0	61010	TE61010	6.6
D-Ring 	27'	60511	TE60511	4.2			
	30'	60512	TE60512	4.4			
U-Hook 	27'	60513	TE60513	4.6	26422	TE26422	5.8
	30'	60514	TE60514	4.8	26423	TE26423	6.0
Hook & Keeper 	27'	60515	TE60515	4.8			
	30'	60516	TE60516	5.0			
Chain Anchor 	27'				61013	TE61013	13.0
	30'				61014	TE61014	13.2
Type A (Endless)  (Series 5,000 Ratchet Buckle shown)	27'	60517	TE60517	3.8	61011	TE61011	4.4
	30'	60518	TE60518	4.0	61012	TE61012	4.6

Note: Because end terminations vary proportionally with size, check with *Lift-All* if critical dimensions are required. Non-standard lengths available upon request.

* Ultimate strength of assembly when new.

RATCHET ASSEMBLIES

Webbing Ultimate Strength * Working Load Limit	Length	Series 15,000					
		3" Wide Polyester 15,000 lbs. 5,000 lbs.			4" Wide Polyester 15,000 lbs. 5,000 lbs.		
		Standard Part No.	Tuff-Edge Part No.	Wt. (lbs.)	Standard Part No.	Tuff-Edge Part No.	Wt. (lbs.)
Flat Hook 	27'	20482	TE20482	12.8	26424	TE26424	13.6
	30'	20483	TE20483	13.2	26425	TE26425	14.0
Forged Triangle 	27'	20484	TE20484	14.0	26430	TE26430	14.8
	30'	20485	TE20485	14.4	26431	TE26431	15.2
Chain Grab Hook 	27'	20486	TE20486	13.4	26426	TE26426	14.2
	30'	20487	TE20487	13.8	26427	TE26427	14.6
Chain Anchor Assembly 	27'	20488	TE20488	16.8	26432	TE26432	17.6
	30'	20489	TE20489	17.2	26433	TE26433	18.0
U-Hook 	27'	20494	TE20494	13.0	26436	TE26436	13.8
	30'	20495	TE20495	13.2	26437	TE26437	14.2
Sewn Eye 	27'	20490	TE20490	11.0	26428	TE26428	11.8
	30'	20491	TE20491	11.4	26429	TE26429	12.2
Type A (Endless) 	27'	20492	TE20492	10.6	26434	TE26434	11.4
	30'	20493	TE20493	11.0	26435	TE26435	11.8

Load Huggers

WEAR PADS AND CORNER PROTECTORS

Sliding Sleeve

- Double walled tubular product
- Specify length when ordering
- Protects Load Hugger webbing from abrasion and helps resist cutting

Ratchet Protector

A sewn fabric pad used to protect surface finish of cargo and ratchet mechanism. Specify with order.

Corner Protector

A movable, rust-proof copolymer corner guard. Protects Load Hugger from sharp edges. Tough enough to be used with either chain or webbing. For other wear pad options, see pages 123-126 in the Accessories section.

