

# Hold it Down!

The collective WLL for all tie-downs must equal at least half the weight of the secured cargo. The WLL generally is imprinted on a tag sewn near one end of the assembled web strap.

## - WLL -

Width of Unmarked Web	Working Load Limit
1 inch	1000 pounds
1 3/4 inch	1750 pounds
2 inches	2000 pounds
3 inches	3000 pounds
4 inches	4000 pounds

## HOW MANY TIE-DOWNS do I need for articles not blocked or positioned to prevent movement?

- Use 1 tie-down for articles 5 feet long or less and 1100 pounds or less.
- Use 2 tie-downs for articles 5 feet long or less and more than 1100 pounds.
- Use 2 tie-downs for articles longer than 5 feet but less than or equal to 10 feet.
- Use 1 tie-down for every 10 linear feet or fraction thereof for articles greater than 10 feet.

## OUT-OF-SERVICE?

How do I know if a damaged web strap should be taken out of service?

The decision is based on two criteria:

Width of Webbing	Size of Damage
1 3/4 inch	Larger than 3/8 inch
2 inches	Larger than 3/8 inch
3 inches	Larger than 5/8 inch
4 inches	Larger than 3/4 inch

## ~ Chains ~

Chain Link Diameter (inches)	Working Load Limit (pounds)				
	Unmarked or Grade 30	Grade 40	Grade 70	Grade 80	Grade 100
1/4	1,300	2,600	3,150	3,500	4,300
5/16	1,900	3,900	4,700	4,500	5,700
3/8	2,650	5,400	6,600	7,100	8,800
7/16	3,700	7,200	8,750	.....not available.....	
1/2	4,500	9,200	11,300	12,000	15,000
5/8	6,900	13,000	15,800	18,100	22,600

**ROPE on Reverse**

# ROPE

Type of Material	Rope Diameter (inches)					
	3/8	7/16	1/2	5/8	3/4	1
	Working Load Limit (pounds)					
Manila	205	265	315	465	640	1050
Polypropylene Fiber	400	525	625	925	1275	2100
Polyester Fiber	555	750	960	1500	1880	3300
Nylon	278	410	525	935	1420	2520
Double Braided Nylon	336	502	655	1130	1840	3250

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See PPP-75, *Securing the Load*, for text in support of the tables provided on this poster.

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