PURDUE EXTENSION

PPP-84

Hold it Down!

Fred Whitford, Purdue Pesticide Programs, et al.

The collective WLL for all tiedowns must equal at least half the weight of the secured cargo.

Generally, the WLL is imprinted on a tag sewn near one end of the assembled web strap. - WLL -

Width of Working Unmarked Web Load Limit

> 1 inch 1000 pounds 1³/₄ inch 1750 pounds 2 inches 2000 pounds 3 inches 3000 pounds 4 inches 4000 pounds

- Chains -

Chain	Working Load Limit (pounds)				
Link Diameter (inches)	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	5400	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

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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 2 tie-downs for articles longer than 10 feet, and use 1 additional tie-down for each additional 10 feet (or fraction thereof) beyond the first 10 feet of length.

OUT-OF-SEEVIOES

How do I know if a damaged web strap should be taken out of service? The decision is based on two criteria:

	WidthofWebbing	SizeofDamage		
	1 ³ / ₄ inch	Larger than 3/8 inch		
	2 inches	Larger than 3/8 inch		
	3 inches	Larger than 5/8 inch		
PPP-84	4 inches	Larger than 3/4 inch		