

4.6 Tiedown Quick Reference

These charts indicate the minimum number* of indirect tiedowns (tiedowns with both ends attached to opposite sides of vehicle) needed to secure a load based only on the load's weight.

For direct tiedowns (tiedowns that are attached directly to the cargo or that have both tiedown ends attached to the same side of the vehicle), double the number of tiedowns shown. For welded steel chain that is not marked with either the grade or working load limit, assume a working load limit equal to that for grade 30 proof coil.

Chains													
Grade of Chain	Size (In.)	Working Load Limit		Weight of Load in Pounds (kg.)									
		(lbs.)	(kg.)	5,000	10,000	15,000	20,000	25,000	30,000	35,000	40,000	45,000	50,000
				(2,268)	(4,536)	(6,804)	(9,072)	(11,340)	(13,608)	(15,876)	(18,144)	(20,412)	(22,680)
Grade 30 proof coil or unmarked	1/4	1,300	580	2	4	6	8	10	12	14	16	18	20
	5/16	1,900	860	2	3	4	6	7	8	10	11	12	14
	3/8	2,650	1,200	1	2	3	4	5	6	7	8	9	10
	7/16	3,700	1,680	1	2	3	3	4	5	5	6	7	7
Grade 43 high test	1/4	2,600	1,180	1	2	3	4	5	6	7	8	9	10
	5/16	3,900	1,769	1	2	2	3	4	4	5	6	6	7
	3/8	5,400	2,449	1	1	2	2	3	3	4	4	5	5
	7/16	7,200	3,270	1	1	2	2	2	3	3	3	4	4
Grade 70 transport	1/4	3,150	1,429	1	2	3	4	4	5	6	7	8	8
	5/16	4,700	2,132	1	2	2	3	3	4	4	5	5	6
	3/8	6,600	2,994	1	1	2	2	2	3	3	4	4	4
	7/16	8,750	3,970	1	1	1	2	2	2	2	3	3	3
Grade 80 alloy	1/4	3,500	1,570	1	2	3	3	4	5	5	6	7	8
	5/16	4,500	2,000	1	2	2	3	3	4	4	5	5	6
	3/8	7,100	3,200	1	1	2	2	2	3	3	3	4	4

*Note: Additional tiedowns may be needed based on the size of the load and/or your overall securement system.

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