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Working Load Limits In Pounds*

Chain Slings

Grade 80

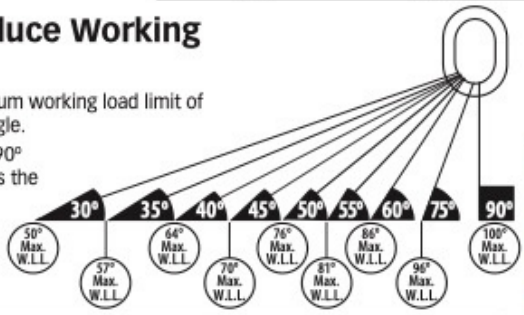
Size of Chain in inches	Pounds Lift When Used Single (90°)	Pounds Lift When Used At 60° Angle	Pounds Lift When Used 45° Angle	Pounds Lift When Used At 30° Angle
9/32"	3500	6100	4900	3500
3/8"	7100	12300	10000	7100
1/2"	12000	20800	17000	12000
5/8"	18100	31300	25600	18100
3/4"	28300	49000	40000	28300

How Lifting Angles Reduce Working Load Limits of Slings.

Percentages shown represent the maximum working load limit of the sling when used at the designated angle.

For example, a 3/8" double sling used at 90° would have a working load limit of 2 times the working load of a 3/8" single or 2 x 7, 100 lbs. = 14,200 lbs.

The same double sling used at 35° would have a max working load limit of 57% of 14,200 lbs.= 8,094 lbs.



Nylon Slings

		Vertical SWL	Choker SWL	Basket SWL
1 Ply	1 Ply (1")	1600 lbs.	1250 lbs.	3200 lbs.
	1 Ply (2")	3200 lbs.	2500 lbs.	6400 lbs.
	1 Ply (4")	6400 lbs.	5000 lbs.	12800 lbs.
	1 Ply (6")	9600 lbs.	7700 lbs.	19200 lbs.
2 Ply	2 Ply (1")	3200 lbs.	2500 lbs.	6400 lbs.
	2 Ply (2")	6400 lbs.	5000 lbs.	12800 lbs.
	2 Ply (4")	11500 lbs.	9200 lbs.	23000 lbs.
	2 Ply (6")	16300 lbs.	13000 lbs.	32600 lbs.
3 Ply	3 Ply (1")	4100 lbs.	3300 lbs.	8200 lbs.
	3 Ply (2")	8300 lbs.	6600 lbs.	16600 lbs.
	3 Ply (4")	16000 lbs.	12800 lbs.	32000 lbs.
	3 Ply (6")	23000 lbs.	18400 lbs.	46000 lbs.
4 Ply	4 Ply (1")	5000 lbs.	4000 lbs.	10000 lbs.
	4 Ply (2")	10000 lbs.	8000 lbs.	20000 lbs.
	4 Ply (4")	19800 lbs.	15800 lbs.	36900 lbs.
	4 Ply (6")	29800 lbs.	23800 lbs.	59600 lbs.

Round Slings

	Vertical SWL	Choker SWL	Basket SWL
Light Duty Purple	2600 lbs.	2080 lbs.	5200 lbs.
Medium Duty Yellow	8400 lbs.	6720 lbs.	16800 lbs.
Heavy Duty Red	13200 lbs.	10560 lbs.	26400 lbs.
Super Duty Blue	21200 lbs.	16960 lbs.	42400 lbs.
Ultra Duty Orange	53000 lbs.	42400 lbs.	106000 lbs.

WARNING: TO AVOID INJURY DO NOT EXCEED WORKING LOAD LIMIT. DO NOT USE WORN OR DAMAGED SLINGS. ALWAYS INSPECT SLINGS BEFORE EACH USE.

Chain, Webbing & Wire Rope Tiedown Chart

These charts indicate the minimum number* of indirect tiedowns needed to secure a load based only on he load's weight. For direct tiedowns, use twice the number of tiedowns shown. Note: Charts are based on indirect tiedown method. Additional tiedown may be needed based on load size and the overall securement system.

Chains	Size	Working Load Limit		Weight of load in Pounds (kgs)									
Grade of Chain	(in.)	(lbs.)	(kg.)	5,000 (2,268)	10,000 (4,536)	15,000 (6,804)	20,000 (9,072)	25,000 (11,340)	30,000 (13,608)	35,000 (15,876)	40,000 (18,144)	45,000 (20,412)	50,000 (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	1,600	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

Synthetic Webbing	Working Load Limit		Weight of load in Pounds (kgs)									
Width in Inches (mm)	(lbs.)	(kg.)	5,000 (2,268)	10,000 (4,536)	15,000 (6,804)	20,000 (9,072)	25,000 (11,340)	30,000 (13,608)	35,000 (15,876)	40,000 (18,144)	45,000 (20,412)	50,000 (22,680)
1-3/4 (45 mm)	1,750	790	2	3	5	6	8	9	10	12	13	15
2 (50 mm)	2,000	910	2	3	4	5	7	8	9	10	12	13
3 (75 mm)	3,000	1,360	1	2	3	4	5	5	6	7	8	9
4 (100 mm)	4,000	1,810	1	2	2	3	4	4	5	5	6	7

Wire Rope	Working Load Limit		Weight of load in Pounds (kgs)									
Width in Inches (mm)	(lbs.)	(kg.)	5,000 (2,268)	10,000 (4,536)	15,000 (6,804)	20,000 (9,072)	25,000 (11,340)	30,000 (13,608)	35,000 (15,876)	40,000 (18,144)	45,000 (20,412)	50,000 (22,680)
1/4 (7 mm)	1,400	640	2	4	6	8	9	11	13	15	17	18
5/16(8 mm)	2,100	950	2	3	4	5	6	8	9	10	11	12
3/8 (1- mm)	3,000	1,360	1	2	3	4	5	5	6	7	8	9
7/16 (11 mm)	4,100	1,860	1	2	2	3	4	4	5	5	6	7
1/2 (13 mm)	5,300	2,400	1	1	2	2	3	3	4	4	5	5
5/8 (16 mm)	8,300	3,770	1	1	1	2	2	2	3	3	3	4
3/4 (20 mm)	10,900	4,940	1	1	1	1	2	2	2	2	3	3
7/8 (22 mm)	16,100	7,300	1	1	1	1	1	1	2	2	2	2
1 (25 mm)	20,900	9,480	1	1	1	1	1	1	1	1	2	2