

Grade 8 Working Load Limit table

TEMPERATURE

If extreme temperature situations occur, the following load reductions must be taken into account:

Temperature °Celsius	Temperature °Fahrenheit	Reduction for elevated temperatures New Working Load Limit
-40 °C up to 200 °C	-40 °F up to 392 °F	100 % of original WLL
200 – 300 °C	392 - 572 °F	90 % of original WLL
300 - 400 °C	572 - 752 °F	75 % of original WLL
> 400 °C	> 752 °F	not allowed

WORKING LOAD LIMIT TABLE FOR GRADE 8 CHAIN SLINGS TO EN 818-4

Chain Ø		1 leg sling	2 leg sling		3 or 4 leg sling		Endless Sling
			0° < β ≤ 45°	45° < β ≤ 60°	0° < β ≤ 45°	45° < β ≤ 60°	
mm	inch	t	Safety factor 1.4	Safety factor 1.0	Safety factor 2.1	Safety factor 1.5	Safety factor 1.6
		t	t	t	t	t	t
6	7/32	1.12	1.60	1.12	2.36	1.70	1.80
7	9/32	1.50	2.12	1.50	3.15	2.24	2.50
8	5/16	2.00	2.80	2.00	4.25	3.00	3.15
10	3/8	3.15	4.25	3.15	6.70	4.75	5.00
13	1/2	5.30	7.50	5.30	11.20	8.00	8.50
16	5/8	8.00	11.20	8.00	17.00	11.80	12.50
20	3/4	12.50	17.00	12.50	26.50	19.00	20.00
22	7/8	15.00	21.20	15.00	31.50	22.40	23.60
26	1	21.20	30.00	21.20	45.00	31.50	33.50
32	1 1/4	31.50	45.00	31.50	67.00	47.50	50.00

WORKING LOAD LIMIT TABLE FOR GRADE 8 CHAIN SLINGS (US)

Chain Ø		1 leg sling	2 leg sling			3 or 4 leg sling			Endless Sling
			0° < β ≤ 30°	30° < β ≤ 45°	45° < β ≤ 60°	0° < β ≤ 30°	30° < β ≤ 45°	45° < β ≤ 60°	
inch	lbs	Safety factor 1.73	Safety factor 1.4	Safety factor 1.0	Safety factor 2.6	Safety factor 1.1	Safety factor 1.5	Safety factor 1.6	
	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	
7/32	2,100	3,600	3,000	2,100	5,500	4,400	3,200	3,360	
9/32	3,500	6,100	4,900	3,500	9,100	7,400	5,200	5,600	
5/16	4,500	7,800	6,400	4,500	11,700	9,500	6,800	7,200	
3/8	7,100	12,300	10,000	7,100	18,400	15,100	10,600	11,360	
1/2	12,000	20,800	17,000	12,000	31,200	25,500	18,000	19,200	
5/8	18,100	31,300	25,600	18,100	47,000	38,400	27,100	28,960	
3/4	28,300	49,000	40,000	28,300	73,500	60,000	42,400	45,280	
7/8	34,200	59,200	48,400	34,200	88,900	72,500	51,300	54,720	
1	47,700	82,600	67,400	47,700	123,900	101,200	71,500	76,320	
1 1/4	72,300	125,200	102,200	72,300	187,800	153,400	108,400	115,680	