

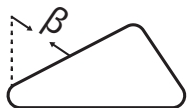
WLL AT A GLANCE.

Grades 8, 10 (VIP) and 12 (ICE) WLL of lifting chains in “t”.
Corresponding angle of inclination with symmetrical load.

TYPES OF ATTACHMENT		1-STRAND	2-STRAND		3- AND 4-STRAND		ENDLESS ² Endless chain with choke hitch	
								
Inclination angle: β		0	0–45°	> 45–60°	0–45°	> 45–60°	–	
Load factor		1.0	1.4	1.0	2.1	1.5	1.6	
Chains $\emptyset$	Grade							
$\emptyset 4$	VIP	0.63	0.88	0.63	1.32	0.95	1.0	
	ICE	0.80	1.12	0.80	1.70	1.18	1.25	
$\emptyset 6$	Grade 8	1.12	1.6	1.12	2.36	1.7	1.8	
	VIP	1.5	2.1	1.5	3.15	2.25	2.4	
	ICE	1.8	2.52	1.8	3.75	2.7	2.88	
$\emptyset 8$	Grade 8	2.0	2.8	2.0	4.25	3.0	3.15	
	VIP	2.5	3.5	2.5	5.25	3.75	4.0	
	ICE	3.0	4.25	3.0	6.3	4.5	4.8	
$\emptyset 10$	Grade 8	3.15	4.25	3.15	6.7	4.75	5.0	
	VIP	4.0	5.6	4.0	8.4	6.0	6.4	
	ICE	5.0	7.1	5.0	10.6	7.5	8.0	
$\emptyset 13$	Grade 8	5.3	7.5	5.3	11.2	8.0	8.5	
	VIP	6.7	9.5	6.7	14.1	10.0	10.6	
	ICE	8.0	11.2	8.0	17.0	11.8	12.8	
$\emptyset 16$	Grade 8	8.0	11.2	8.0	17.0	11.8	12.5	
	VIP	10.0	14.0	10.0	21.2	15.0	16.0	
	ICE	12.5	17.0	12.5	26.5	19.0	20.0	
$\emptyset 18$	Grade 8	10.0	14.0	10.0	21.2	15.0	16.0	
$\emptyset 20$	Grade 8	12.5	17.0	12.5	26.5	19.0	20.0	
	VIP	16.0	22.4	16.0	33.6	24.0	25.6	
$\emptyset 22$	Grade 8	15.0	21.2	15.0	31.5	22.4	23.6	
	VIP	20.0	28.0	20.0	42.0	30.0	32.0	
$\emptyset 26$	Grade 8	21.2	30.0	21.2	45.0	31.5	33.5	
$\emptyset 28$	VIP	31.5	45.0	31.5	67.0 ¹	47.5 ¹	50.0	
$\emptyset 32$	Grade 8	31.5	45.0	31.5	67.0	47.5	50.0	

¹ Only available as a 2 x 2-strand version.

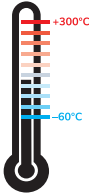
² 20 % reduction for endless chains (sharp edges) is taken into account!
Subject to technical changes!



Attention:

According to EN 818-6 A.1.3.5, the single strand WLL applies in the event of asymmetrical loading of a multiple strand suspension.

	ENDLESS CHAIN ²				CHOKE HITCH ²		
	SINGLE		DOUBLE		SINGLE	DOUBLE	
							
	0-45°	> 45-60°	0-45°	> 45-60°	0	0-45°	> 45-60°
	1.1	0.8	1.7	1.2	0.8	1.1	0.8
	0.69	0.5	1.1	0.75	0.5	0.69	0.5
	0.88	0.64	1.36	0.96	0.64	0.88	0.64
	1.2	0.9	1.9	1.3	0.9	1.2	0.9
	1.65	1.2	2.55	1.8	1.2	1.65	1.2
	2.0	1.44	3.1	2.1	1.44	2.0	1.44
	2.2	1.6	3.4	2.4	1.6	2.2	1.6
	2.75	2.0	4.25	3.0	2.0	2.75	2.0
	3.3	2.4	5.1	3.6	2.4	3.3	2.4
	3.5	2.5	5.3	3.8	2.5	3.5	2.5
	4.4	3.2	6.8	4.8	3.2	4.4	3.2
	5.5	4.0	8.5	6.0	4.0	5.5	4.0
	5.8	4.0	9.0	6.0	4.0	5.8	4.0
	7.5	5.3	11.2	8.0	5.3	7.5	5.3
	8.8	6.4	13.6	9.6	6.4	8.8	6.4
	8.8	6.4	13.6	9.6	6.4	8.8	6.4
	11.0	8.0	17.0	12.0	8.0	11.0	8.0
	14.0	10.0	21.2	15.0	10.0	14.0	10.0
	11.0	8.0	17.0	12.0	8.0	11.0	8.0
	14.0	10.0	21.2	15.0	10.0	14.0	10.0
	17.6	12.8	27.2	19.2	12.8	17.6	12.8
	16.5	12.0	25.5	18.0	12.0	16.5	12.0
	22.0	16.0	34.0	24.0	16.0	22.0	16.0
	23.3	17.0	36.0	25.4	17.0	23.0	17.0
	35.5	25.0	53.0 ¹	37.5 ¹	25.0	35.5	25.0
	35.5	25.0	53.0	37.5	25.0	35.5	25.0

Temperature °C / °F 	Grade 8	-40° to +200 °C (-40° to +392 °F)	Above 200° to 300 °C (Above 392° to 572 °F)	Above 300° to 400 °C (Above 572° to 752 °F)
		100 %	90 %	75 %
	VIP 10	-40° to +200 °C (-40° to +392 °F)	Above 200° to 300 °C (Above 392° to 572 °F)	Above 300° to 380 °C (Above 572° to 716 °F)
		100 %	90 %	60 %
	ICE 12	-60° to +200 °C (-76° to +392 °F)	Above 200° to 250 °C (Above 392° to 482 °F)	Above 250° to 300 °C (Above 482° to 572 °F)
		100 %	90 %	60 %