

KUPLEX 8 + 10™



WORKING LOAD LIMITS - TONNES

The working load limits (WLL) listed in the table below are the maximum weights which slings are designed to carry in general lifting service according to the standard uniform load method of rating.

In exceptionally hazardous conditions or in any other circumstances which might indicate a need for a WLL lower than the designed figure, the degree of hazard should be assessed by a competent person and the working load limit adjusted accordingly. The WLL, which should be marked on the sling itself, or on a securely fixed metal tag, must not be exceeded in any circumstances.

Chain Dia. mm	Grade	Single Leg		Two Leg		Three and Four Leg		Endless
		Factor 1	β		Factor 2.1	Factor 1.5	Factor 1.6	
			0° < β ≤ 45°	45° < β ≤ 60°				
7	8	1.5	2.12	1.5	3.15	2.24	2.5	
7	10	2	2.8	2	4.2	3	3.2	
8	8	2	2.8	2	4.2	3	3.2	
10	8	3.15	4.25	3.15	6.7	4.75	5	
10	10	4.0	5.6	4	8.4	6	6.4	
13	8	5.3	7.5	5.3	11.2	8	8.5	
13	10	6.7	9.5	6.7	14	10	10.7	
16	8	8	11.2	8	17	11.8	12.5	
16	10	10	14	10	21.2	15	16	
19	8	11.2	16	11.2	23.6	17	18	
19	10	14	20	14	30	21	22.4	
23	8	16	23.6	16	35.5	25	26.5	
23	10	21	29.5	21	44	31.5	33.5	
26	8	21.2	30	21.2	45	31.5	33.5	
26	10	27	38	27	57	40	43	
32	8	31.5	45	31.5	67	47.5	50	
32	10	40	56	40	85	60	65	

CROSBY KUPLEX Grade 8 working load limits are in accordance with EN 818-4

**Never exceed the working load limit marked on the sling.
Never use a sling at angles greater than 60° from the vertical.**

The load imposed on a sling leg increases as the angle of the leg from vertical increases.

Account is taken of this fact when calculating working load limits. For example, a 10mm two-leg sling to be used at angle of 45° from the vertical (90° included angle) will have a WLL 1.4 times that of a 10mm single leg sling when used vertical, and not 2 times the single leg. That same working load limit applies to all angles from 0° -45° (0° -90° included angle.) Where there is likely to be a need to use a sling at an angle greater than 45° from the vertical, the sling should have additional markings showing the reduced WLL applying at angles from 45° -60° from the vertical (included angles from 90° -120°). Refer to 'Restrictions on the Angles of Use' on page 441.

Alternative method of rating.

An alternative method of rating may be used for specific lifting application where the angle at which the slings legs are disposed is predetermined. This method allows greater working load limits at angles less than 45° from the vertical, always assuming that the sling legs are disposed symmetrically with each leg accepting an equal share of the load to be lifted. For further details refer to your Crosby KUPLEX distributor.