

# Working Load Limits of Superflex Strops

## Andromeda Technical Sheet #SF101-03



**Superflex Strops are slings made especially as chokers.** They are designed to choke onto and safely lift things like poles and piles, steel bars, drill rods and bundles of tube. They are very versatile slings with great gripping power and can often solve lifting problems. Various versions are available.

The WLL is shown in tonnes of 1000 kgf – the standard Factor of Safety is 5

Basic cable details			Strop terminated one end only (very slim one end, easy fitting in tight places)						
Cable Size or number	Minimum Breaking Force (MBF) kN	Cable nominal diameter (D) mm	Single fall WLL				Choked on round load		Choked on square load
			<30°	60°	90°	120°			
Two-5	50	10	1.5	2.9	2.6	2.1	1.5	1.1	0.8
Three-0	75	12	2.3	4.5	4.0	3.2	2.3	1.7	1.1
Three-5	95	14	2.7	5.3	4.7	3.8	2.7	2.0	1.4
Four-0	125	16	3.6	7.1	6.2	5.1	3.6	2.7	1.8
Four-5	157	18	4.5	8.8	7.8	6.3	4.5	3.4	2.3
Five-0	210	20	6.1	11.9	10.5	8.6	6.1	4.6	3.0
Five-5	270	22	7.8	15.3	13.5	11.0	7.8	5.9	3.9
Six-5	345	26	10.0	19.6	17.3	14.1	10.0	7.5	5.0
Eight-0	530	32	15.4	30.2	26.6	21.7	15.4	11.6	7.7
Ten-0	790	40	23.0	45.0	39.8	32.4	23.0	17.3	11.5
Twelve-0	1110	48	32.4	63.5	56.0	45.7	32.4	24.3	16.2
Fourteen-0	1460	56	42.5	83.3	73.5	59.9	42.5	31.9	21.3
Seventeen-0	2168	68	63.1	123.7	109.2	89.0	63.1	47.3	31.6
Twenty-0	3015	80	87.8	172.1	151.9	123.8	87.8	65.8	43.9
TwentyFour-0	4340	96	126.5	247.9	218.8	178.4	126.5	94.9	63.3
Loading factors for the various configurations based on the single fall WLL			1.0	1.96	1.73	1.41	1.0	0.75	0.50

### Notes on the WLL figures for strops

The derivation of the WLL for Superflex Strops is based on the WLL for single fall Superflex Slings.

For a strop terminated one end only, the factor is 1.5 x the WLL for a single fall sling.

For a strop terminated at both ends, the factor is 2.0 x the WLL for a single fall sling.

**Please note – figures are rounded to the closest decimal point**