



# Working Load Limits of Superflex Straps

## Andromeda Technical Sheet #SF101-03.1



**Superflex Straps 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 both ends						
Cable Size or number	Minimum Breaking Force (MBF) kN	Cable nominal diameter (D) mm							
			Single fall WLL	<30°	60°	90°	120°	Choked on round load	Choked on square load
Two-5	50	10	2.0	3.9	3.5	2.8	2.0	2.3	1.5
Three-0	75	12	3.0	5.9	5.3	4.2	3.0	3.3	2.2
Three-5	95	14	3.6	7.1	6.3	5.0	3.6	4.1	2.7
Four-0	125	16	4.8	9.4	8.4	6.7	4.8	5.4	3.6
Four-5	157	18	6.0	11.8	10.5	11.5	6.0	6.8	4.5
Five-0	210	20	8.2	10.2	14.4	11.5	8.2	9.0	6.0
Five-5	270	22	10.4	20.3	18.2	14.6	10.4	11.7	7.8
Six-5	345	26	13.4	25.9	23.1	18.5	13.2	15.0	10.0
Eight-0	530	32	20.6	40.4	36.1	28.8	20.6	23.3	15.5
Ten-0	790	40	30.6	59.6	53.2	42.6	30.4	34.2	22.8
Twelve-0	1110	48	43.2	84.7	74.7	60.9	43.2	48.6	32.4
Fourteen-0	1460	56	56.6	111	99.4	79.5	56.8	64.0	42.6
Seventeen-0	2168	68	84.2	165	147	118	84.2	94.8	63.2
Twenty-0	3015	80	117.0	229.3	202.4	165.0	117.0	87.8	58.5
TwentyFour-0	4340	96	168.6	330.5	291.7	237.73	168.6	126.45	84.30
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 Straps 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**