

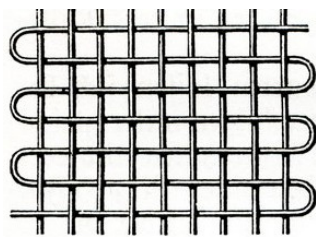


HEFFEN INDIA - Specialist of Textile Lifting Slings



What are Webbing?

Webbing also known as Narrow Fabrics are strong woven textile that range from 5 mm to 300 mm in width. Being an extremely versatile product, they have a variety of applications from industrial to non-industrial. These products are woven from yarn, which are chosen depending on the end-application of the product



Webbing are made using the weaving method in textile production where the Warp and Weft Yarn are interlaced with each other.

Warp is the longitudinal threads and Weft is the lateral thread in the weave.

'HEFFEN' is a Proprietary brand of Heffen India,
We are the leading and suppliers of load lifting and cargo securing synthetic slings in India.

Our products are made using the best quality yarn and are tested as per international standards on NABL Certified Testing Machine to give our customer's a safe and reliable lifting experience.



All our Web-Slings are made using High-Tenacity Polyester Yarn in variety of width and thickness to suffice various load lifting capacities from light to heavy. Other features are as follows :-

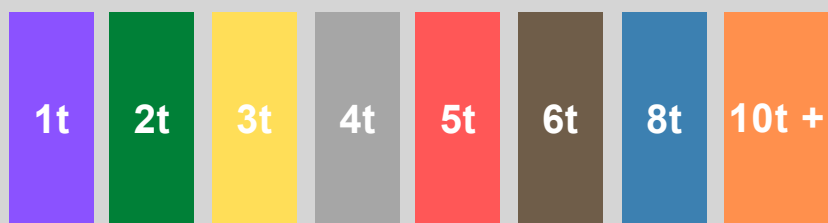
- 25mm to 300mm widths, suggested as per users load lifting requirements
- Colour-coded as per international standards for easy identification
- Factor of safety 5:1 to 7:1
- Maximum elongation 3 - 7%
- Manufactured as per IS 15041-2001 and ASME B 30.9 Standards

ADVANTAGES OF USING SLINGS

- Light in weight, flexible and easy to handle by shop-floor staff
- Can be colour coded and hence easy to identify WLL thus reducing any mishaps and accidents
- Easy to test and is possible to visually inspect
- Required very little space for storage hence reducing costs Cost effective than other metal lifting alternatives Required Zero maintenance
- Made using High Tenacity Polyester yarn that is anti-static and high heat resistant
- Lowest Weight-to-WLL Ratio among other lifting substitutes

To easily and clearly identify the lifting capacities of web slings, all the products are colour-coded as per international standards

COLOUR CODED PRODUCTS



HITCH & WLL

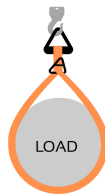
IF WORKING LOAD LIMIT (WLL) OF A SAMPLE SLING IS 2 TON

FIND BELOW WLL AT VARIOUS HITCH-TYPE



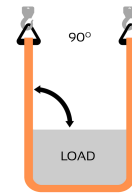
**VERTICAL
HITCH**

Load Factor = 1
WLL = 2,000 Kgs



**CHOKER
HITCH**

Load Factor = 0.8
WLL = 1,600 Kgs



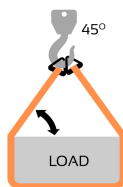
**BASKET
HITCH (90)**

Load Factor = 2
WLL = 4,000 Kgs



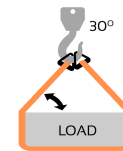
**BASKET
HITCH (60)**

Load Factor = 1.7
WLL = 3,400 Kgs



**BASKET
HITCH (45)**

Load Factor = 1.4
WLL = 2,800 Kgs



**BASKET
HITCH (30)**

Load Factor = 1
WLL = 2,000 Kgs

LOAD FACTOR FOR CALCULATING WLL OF A SLING IN MULTI-LEGGED HITCH TYPE

No. of Legs	Load Factor (0-45)	Load Factor (45-90)
1	1	NA
2	1.4	1
3 & 4	2.1	1.4



ENVIRONMENTAL CONSIDERATIONS

Exposure to sunlight and other environmental factors can result in accelerated deterioration of web slings. The rate of this deterioration varies with the level of exposure and with the thickness of the sling material.

Visible indication of such environmental deterioration can include the following:

Fading of webbing colour :

Uneven or disoriented surface yarn of the webbing

Shortening of the sling length

Reduction in elasticity of the sling

Accelerated abrasive damage to the surface yarns of the sling

Breakage or damage to yarn fibres is often evident by a fuzzy appearance on the webbing

Stiffening of the webbing

TEMPERATURE

Nylon and polyester slings degrade at temperatures above 200°F.

EXPOSURE TO SUNLIGHT

Polyester and Nylon Slings have resistance to UV Rays, however, slings that are regularly exposed to UV Radiations should be proof-tested (2x of WLL) every 6 months to check for any degradations.














SIMPLEX

WEBBING SLINGS

Simplex Slings are made using One Ply of webbing idle for light load lifting capacities from 500 Kgs to 6 Tonnes

The slings are made using 100% High-Tenacity polyester yarn as is available in various colours as per international standards for easy identification



WORKING LOAD LIMIT (WLL) FOR SIMPLEX SLINGS						
COLOUR CODE	PRODUCT CODE	WIDTH (MM)	STRAIGHT T LIFT (KG)	CHOKE HITCH (KG)	BASKET-45 HITCH (KG)	BASKET-90 HITCH (KG)
						
LOAD FACTOR			1	0.8	1.4	2
	HSW1	25	500	400	700	1,000
	HSW2	50	1,000	800	1,400	2,000
	HSW3	75	1,500	1,200	2,100	3,000
	HSW4	100	2,000	1,600	2,800	4,000
	HSW5	125	2,500	2,000	3,500	5,000
	HSW6	150	3,000	2,400	4,200	6,000
	HSW8	200	4,000	3,200	5,600	8,000
	HSW10	250	5,000	4,000	7,000	10,000
	HSW12	300	6,000	4,800	8,400	12,000

DUPLEX














WEBBING SLINGS

Duplex Slings are made using Two Ply of webbing idle for medium load lifting capacities from 1 Tonne to 12 Tonnes

The slings are made using 100% High-Tenacity polyester yarn as is available in various colours as per international standards for easy identification



WORKING LOAD LIMIT (WLL) FOR DUPLEX SLINGS

COLOUR CODE	PRODUCT CODE	WIDTH (MM)	STRAIGHT LIFT (KG)	CHOKE HITCH (KG)	BASKET-45 HITCH (KG)	BASKET-90 HITCH (KG)
						
LOAD FACTOR			1	0.8	1.4	2
	HDW1	25	1,000	800	1,400	2,000
	HDW2	50	2,000	1,600	2,800	4,000
	HDW3	75	3,000	2,400	4,200	6,000
	HDW4	100	4,000	3,200	5,600	8,000
	HDW5	125	5,000	4,000	7,000	10,000
	HDW6	150	6,000	4,800	8,400	12,000
	HDW8	200	8,000	6,400	11,200	16,000
	HDW10	250	10,000	8,000	14,000	20,000
	HDW12	300	12,000	9,600	16,800	24,000














TRIPLEX

WEBBING SLINGS

Triplex Slings are made using Three Ply of webbing idle for medium load lifting capacities from 1.5 Tonnes to 18 Tonnes

The slings are made using 100% High-Tenacity polyester yarn as is available in various colours as per international standards for easy identification



WORKING LOAD LIMIT (WLL) FOR TRIPLEX SLINGS						
COLOUR CODE	PRODUCT CODE	WIDTH (MM)	STRAIGHT T LIFT (KG)	CHOKE HITCH (KG)	BASKET-45 HITCH (KG)	BASKET-90 HITCH (KG)
						
LOAD FACTOR			1	0.8	1.4	2
	HTW1	25	1,500	1,200	2,100	3,000
	HTW2	50	3,000	2,400	4,200	6,000
	HTW3	75	4,500	3,600	6,300	9,000
	HTW4	100	4,000	3,200	5,600	8,000
	HTW5	125	6,000	4,800	8,400	12,000
	HTW6	150	7,000	5,600	9,800	14,000
	HTW8	200	12,000	9,600	16,800	24,000
	HTW10	250	15,000	12,000	21,000	30,000
	HTW12	300	18,000	14,400	25,200	36,000





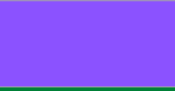








QUADPLEX

WEBBING SLINGS

Quadplex Slings are made using four Ply of webbing idle for heavy load lifting capacities from 2 Tonnes to 24 Tonnes

The slings are made using 100% High-Tenacity polyester yarn as is available in various colours as per international standards for easy identification



WORKING LOAD LIMIT (WLL) FOR QUADPLEX SLINGS						
COLOUR CODE	PRODUCT CODE	WIDTH (MM)	STRAIGHT LIFT (KG)	CHOKE HITCH (KG)	BASKET-45 HITCH (KG)	BASKET-90 HITCH (KG)
						
LOAD FACTOR			1	0.8	1.4	2
	HQW1	25	2,000	1,600	2,800	4,000
	HQW2	50	4,000	3,200	5,600	8,000
	HQW3	75	6,000	4,800	8,400	12,000
	HQW4	100	8,000	6,400	11,200	16,000
	HQW5	125	10,000	8,000	14,000	20,000
	HQW6	150	12,000	9,600	16,800	24,000
	HQW8	200	16,000	12,800	22,400	32,000
	HQW10	250	20,000	16,000	28,000	40,000
	HQW12	300	24,000	19,200	33,600	48,000