


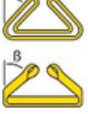
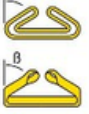








# WLL table

## WORKING LOAD LIMIT (WLL) POLYESTER

Wll capacity table for webbing and roundsling

Colourcode according to EN 1492-1/2	Working Load Limits with 1 webbing sling or roundsling						Working Load Limits with 2 webbing slings or roundslings				
	straight lift	choked lift	*B		*B		*B		*B		
			0° - 7°	7° - 45°	45° - 60°	7° - 45°	45° - 60°	7° - 45°	45° - 60°	7° - 45°	45° - 60°
											
Factor	1	0,8	2	1,4	1	0,7	0,5	1,4	1	1,12	0,8
WLL in t											
WLL 1 t	1,00	0,80	2,00	1,40	1,00	0,70	0,50	1,40	1,00	1,12	0,80
WLL 2 t	2,00	1,60	4,00	2,80	2,00	1,40	1,00	2,80	2,00	2,24	1,60
WLL 3 t	3,00	2,40	6,00	4,20	3,00	2,10	1,50	4,20	3,00	3,36	2,40
WLL 4 t	4,00	3,20	8,00	5,60	4,00	2,80	2,00	5,60	4,00	4,48	3,20
WLL 5 t	5,00	4,00	10,00	7,00	5,00	3,50	2,50	7,00	5,00	5,60	4,00
WLL 6 t	6,00	4,80	12,00	8,40	6,00	4,20	3,00	8,40	6,00	6,72	4,80
WLL 8 t	8,00	6,40	16,00	11,20	8,00	5,60	4,00	11,20	8,00	8,96	6,40
WLL 10 t	10,00	8,00	20,00	14,00	10,00	7,00	5,00	14,00	10,00	11,20	8,00
WLL 12 t	12,00	9,60	24,00	16,80	12,00	8,40	6,00	16,80	12,00	13,44	9,60
WLL 15 t	15,00	12,00	30,00	21,00	15,00	10,50	7,50	21,00	15,00	16,80	12,00
WLL 20 t	20,00	16,00	40,00	28,00	20,00	14,00	10,00	28,00	20,00	22,40	16,00
WLL 25 t	25,00	20,00	50,00	35,00	25,00	17,50	12,50	35,00	25,00	28,00	20,00
WLL 30 t	30,00	24,00	60,00	42,00	30,00	21,00	15,00	42,00	30,00	33,60	24,00
WLL 40 t	40,00	32,00	80,00	56,00	40,00	28,00	20,00	56,00	40,00	44,80	32,00
WLL 50 t	50,00	40,00	100,00	70,00	50,00	35,00	25,00	70,00	50,00	56,00	40,00
WLL 60 t	60,00	48,00	120,00	84,00	60,00	42,00	30,00	84,00	60,00	67,20	48,00
WLL 70 t	70,00	56,00	140,00	98,00	70,00	49,00	35,00	98,00	70,00	78,40	56,00
WLL 80 t	80,00	64,00	160,00	112,00	80,00	56,00	40,00	112,00	80,00	89,60	64,00
WLL 90 t	90,00	72,00	180,00	126,00	90,00	63,00	45,00	126,00	90,00	100,80	72,00
WLL 100 t	100,00	80,00	200,00	140,00	100,00	70,00	50,00	140,00	100,00	112,00	80,00
WLL 110 t	110,00	88,00	220,00	154,00	110,00	77,00	55,00	154,00	110,00	123,20	88,00
WLL 115 t	115,00	92,00	230,00	161,00	115,00	80,50	57,50	161,00	115,00	128,80	92,00



# Web slings Roundslings

## Information

### 1) EN-Standards and Machinery Directives

For all European manufacturers are the technical demands and the references how to produce textile lifting equipment like roundslings and webslings summarized in the EN 1492-1 (Webslings) and the EN 1492-2 (Roundslings). Additionally the textile lifting equipment is encoded with the CE mark according the Machinery Directory 2006/42/EG



### 2) Testing and Maintenance

To guarantee a safe way of using the textile lifting equipment they must be tested at least one time per year or according the latest publications of the standard or local guidelines.

The operator of the equipment has to arrange independently of predetermining operation conditions several test intervals. These tests may only be done by competent persons. Possible damaged Roundslings/Webslings may only be repaired by the manufacturer or by people who have become the power of attorney to repair from the manufacturer.

To guarantee the quality of our products the standard Webslings and Roundslings are being certified by the AIB Vinchotte (VGS), Berufsgenossenschaft (GS) or Lloyds.



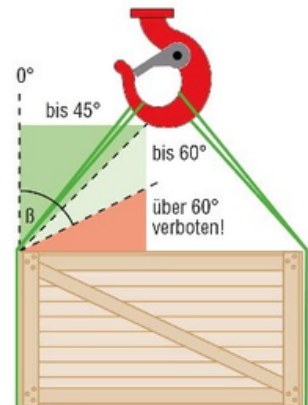
### 3) Lifting of loads (WLL Capacity table and lifting angle)

If a load with a certain weight has to be lifted, the person who has to coordinate this job has to make sure the correct lifting materials are chosen. Also the number of slings, the capacity and the length has to be defined. It is also to plan the lifting procedure and to make sure that the angle of inclination is not more than 60 degrees (an angle of more than 60 degrees is forbidden!)

The bigger the angle of inclination, the smaller the practical capacity of the lifting equipment.  
As a simple rule you can say:

By an angle of inclination up to 45 degrees the chosen lifting equipment can be calculated with only 70% of the original capacity. For example:  
 $70\% \text{ of } 2T = 0,7 \times 2T = 1,4T$

By an angle of inclination up to 60 degrees the chosen lifting equipment can be calculated with only 50% of the original capacity. For example:  
 $50\% \text{ of } 2T = 0,5 \times 2T = 1,0T$



# TLX Informationen

## TECHLON® ROUND SLING (TLX)

### Material:

The construction of a sling is divided into the core and a protection sleeve.  
The core is made out of polyester (PES ) fibres. The protection sleeve is made out of Techlon (PES).  
Due to the special rip and weave structure, Techlon is significantly more resistance to abrasion than standard polyester sleeve.

### Physical properties

Specific Gravity (g/cm3)	:	1,38
Elongation at WLL (in %)	:	3 - 4
Usable at temperature	:	-40°C - +100°C
Moisture regain %	:	< 0,5
Resistance to mineral Acid*	:	Good
Resistance to Alkalis*	:	Poor

\* Always consult the producer.

### Application:

Techlon (TLX ) round slings are for general use for lifting loads from WLL 1 ton up to 150 ton. (straight lift).

For the standard assortment we refer to the enclosed product sheets.

### Standards:

- Techlon round slings comply with the Machinery Directive 2006/42/EG
- Techlon round slings have a CE-mark, according the Machinery Directive requirements. (Europe).
- Techlon round slings comply with NEN-EN 1492-2 (europe), BS 6668 part 2-1987 safety factor 6:1 (middle east, asia), AS 4497.1-1997 (Australia), OSHA /AS ME B30.9 (USA )



# TLX round slings

TECHLON® (TLX)



## WEIGHT OF A TLX ROUND SLING WITH TECHLON SLEEVE IN KG

	Type	TLX0100	TLX0150	TLX0200	TLX0250	TLX0300	TLX0350	TLX0400	TLX0450	TLX0500	TLX0550
	WLL	12 t	15 t	20 t	25 t.	30 t	35 t	40 t	45 t	50 t	55 t
	Sleeve width	110 mm	110 mm	132 mm	132 mm	160 mm	160 mm	160 mm	180 mm	180 mm	180 mm
	Core diameter	39 mm	46 mm	52 mm	60 mm	65 mm	67 mm	73 mm	78 mm	86 mm	90 mm
EWL in mtr		kg	kg	kg	kg	kg	kg	kg	kg	kg	kg
1	TLX	2,6	3,4	4,4	5,6	6,2	7,3	n/a	n/a	n/a	n/a
2	TLX	5,1	6,6	8,5	11,0	12,3	14,5	16,0	18,9	22,7	25,2
3	TLX	7,5	9,8	12,7	16,5	18,5	21,6	23,9	28,1	33,9	37,6
4	TLX	9,9	13,0	16,8	21,9	24,6	28,7	31,8	37,4	45,0	50,0
5	TLX	12,4	16,2	21,0	27,3	30,7	35,8	39,7	46,7	56,2	62,5
6	TLX	14,8	19,5	25,2	32,7	36,9	42,9	47,6	55,9	67,4	74,9
7	TLX	17,3	22,7	29,3	38,2	43,0	50,0	55,5	65,2	78,6	87,3
8	TLX	19,7	25,9	33,5	43,6	49,1	57,1	63,3	74,4	89,7	99,7
9	TLX	22,2	29,1	37,6	49,0	55,3	64,2	71,2	83,7	100,9	112,1
10	TLX	24,6	32,3	41,8	54,4	61,4	71,3	79,1	93,0	112,1	124,6
11	TLX	27,0	35,5	45,9	59,9	67,6	78,4	87,0	102,2	123,3	137,0
12	TLX	29,5	38,7	50,1	65,3	73,7	85,5	94,9	111,5	134,5	149,4
13	TLX	31,9	41,9	54,3	70,7	79,8	92,6	102,8	120,7	145,6	161,8
14	TLX	34,4	45,2	58,4	76,1	86,0	99,7	110,7	130,0	156,8	174,2
15	TLX	36,8	48,4	62,6	81,5	92,1	106,8	118,5	139,3	168,0	186,6
16	TLX	39,2	51,6	66,7	87,0	98,3	113,9	126,4	148,5	179,2	199,1
17	TLX	41,7	54,8	70,9	92,4	104,4	121,0	134,3	157,8	190,3	211,5
18	TLX	44,1	58,0	75,1	97,8	110,5	128,2	142,2	167,1	201,5	223,9
19	TLX	46,6	61,2	79,2	103,2	116,7	135,3	150,1	176,3	212,7	236,3
20	TLX	49,0	64,4	83,4	108,7	122,8	142,4	158,0	185,6	223,9	248,7
	Extra per mtr. working length	2,5	3,2	4,2	5,4	6,1	7,1	7,9	9,3	11,2	12,4



# TLX round slings

## WEIGHT OF A TLX ROUND SLING WITH TECHLON SLEEVE IN KG

	Type	TLX0600	TLX0650	TLX0700	TLX0750	TLX0800	TLX0850	TLX0900	TLX0950	TLX1000	TLX 1150
	WLL	60 t	65 t	70 t	75 t	80 t	85 t	90 t	95 t	100 t	115 t
	Sleeve width	220 mm	220 mm	220 mm	320 mm	320 mm	320 mm	320 mm	320 mm	320 mm	320 mm
	Core diameter	95 mm	98 mm	101 mm	105 mm	108 mm	112 mm	116 mm	120 mm	123 mm	140 mm
EWL in mtr		kg	kg	kg	kg	kg	kg	kg	kg	kg	kg
1	TLX	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2	TLX	27,4	29,6	31,3	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3	TLX	40,9	44,2	46,8	51,6	54,1	57,9	60,4	64,2	66,7	84,6
4	TLX	54,4	58,8	62,2	68,6	72,0	77,0	80,4	85,4	88,7	122,6
5	TLX	67,9	73,4	77,7	85,6	89,8	96,1	100,3	106,6	110,8	140,7
6	TLX	81,4	88,1	93,1	102,7	107,7	115,3	120,3	127,9	132,8	168,7
7	TLX	94,9	102,7	108,6	119,7	125,5	134,4	140,2	149,1	154,9	196,7
8	TLX	108,4	117,3	124,0	136,7	143,4	153,5	160,2	170,3	176,9	224,8
9	TLX	121,9	131,9	139,5	153,7	161,2	172,6	180,1	191,5	199,0	252,8
10	TLX	135,4	146,5	154,9	170,7	179,1	191,7	200,1	212,7	221,0	280,8
11	TLX	148,9	161,1	170,4	187,7	196,9	210,8	220,0	233,9	243,0	309,0
12	TLX	162,4	175,7	185,9	204,8	214,8	230,0	240,0	255,2	265,1	337,0
13	TLX	175,9	190,3	201,3	221,8	232,7	249,1	260,0	276,4	287,1	365,0
14	TLX	189,4	204,9	216,8	238,8	250,5	268,2	279,9	297,6	309,2	393,0
15	TLX	202,9	219,5	232,2	255,8	268,4	287,3	299,9	318,8	331,2	421,0
16	TLX	216,4	234,1	247,7	272,8	286,2	306,4	319,8	340,0	353,3	449,0
17	TLX	229,9	248,7	263,1	289,9	304,1	325,6	339,8	361,3	375,3	477,0
18	TLX	243,4	263,4	278,6	306,9	321,9	344,7	359,7	382,5	397,4	505,0
19	TLX	256,9	278,0	294,0	323,9	339,8	363,8	378,9	403,7	419,4	535,0
20	TLX	270,4	292,6	309,5	340,9	357,6	382,9	399,6	424,9	441,4	565,0
	Extra per mtr. working length	13,5	14,6	15,5	17,0	17,9	19,1	20,0	21,2	22,0	30,0

