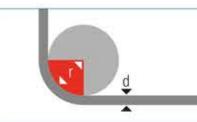
A SIDE NOTE: sharp edges

Edges that count as sharp edges in the official definition are often not recognised as such, since they can still appear round and smooth.



5 Definition

As per Section 2.8 of the German BGR 500 regulation, a sharp edge is one in which the radius of the edge is smaller than the material thickness of the sling.

■ Surface texture

Very rough surfaces, such as those of precast concrete parts, can quickly damage fabric slings or wire rope even after only limited contact with

Anomalous shape profiles

As well as "square" edges, some items have anomalous shape profiles, including protruding ridges, flash and points, or jagged outer contours. The normal rules cannot be used to assess edges



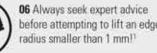
The 10 Commandments of Sharp Edges



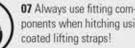
carefully using design documen-

03 Read the directions for use

for fabric slings before lifting!









08 Use flexible edge protection in the case of narrow passages or winding paths!





Attention. This statement applies to protective sleeves and solid coatings and not to PowerForce lifting belts, which may only be used up to 2 mm edge radii

Tools are necessary for assessing sharp edges.

Radius gauges, callipers or folding rulers, amongst other things, are suitable for determining radii.

SpanSet Ltd Telford Way, Middlewich Cheshire CW10 0HX, UK Tel: 01606 737494

www.spanset.co.uk

Ihre SpanSet-Werksvertretung

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Increased safety, longer service life

The thing that makes PowerForce lifting straps special is the fact that the cloth is made out of extremely cut and tear-resistant high-performance fabric (high-modulus polyethylene). They

The results achieved by the PowerForce lifting straps, and therefore their operational fitness, were confirmed by DNV GI (Det Norske Veritas Germanischer Lloyd).



Extra convenience

A combination of D1 and D2 shackles (pass-through shackles) is available especially for use



High cut and wear resistance set PowerForce lifting straps apart from polyester lifting straps with

With its ever-expanding range of applications, the new PowerForce lifting strap is the ideal sling for the construction industry and mechanical engineering. Sometimes, you need to lift a precast concrete part with a rough surface, directly followed by a roof component or steel beam with extremely small edge radii. The PowerForce lifting strap is capable of withstanding any edge radius of more than 2 mm, even when dealing with the widest variety of mechanical components.













The new lifting straps are available as single-layer looped lifting straps 1, with D1 shackles at either end 2, with a D2 shackle at one end and D1 shackle at the other end 3 or as single-layer band loops 4. PowerForce lifting straps are manufactured based on DIN EN 1492-1. The load capacity colour coding is based on the colour coding in EN 1492-1 and is shown by coloured marking 5 on the loops and by plainly visible patches.

PowerForce looped lifting strap

WLL [t]	Loop colour coding	approx. strap thickness [mm]	approx. B [mm]	approx. B ₂ [mm]	approx. SL [mm]	min. Length L1 [mm]	approx. weight first m [kg]	approx. weight running m [kg]
1	violet	3	40	30	300	1,0	0,18	0,08
2	green	3	80	40	300	1,2	0,36	0,16
}	yellow	3	120	50	400	1,5	0,59	0,24

PowerForce band loop

VLL]	Patch colour coding	approx. strap thickness [mm]	approx. B [mm]	min. Length L1 [mm]	approx. weight first m [kg]	approx. weight running m [kg]
	green	3	40	1,0	0,24	0,16
	gray	3	80	1,0	0,39	0,32
	brown	3	120	1,5	0,62	0,48

PowerForce lifting strap with D1 shackle²

WLL [t]	Shakle colour coding	approx. strap thickness [mm]	approx. B [mm]	approx. DØ* [mm]	approx. R* [mm]	approx. H* [mm]	min. length L1 [mm]	approx. weight first m [kg]	approx. weight running m [kg]
1	violet	3	40	16	22	80	1,0	0,57	0,08
2	green	3	80	18	30	85	1,0	0,93	0,16
3	yellow	3	120	20	40	125	1,0	1,58	0,24

^{*} Dimensions are "approx." because the shackles are a free-forged product.

PowerForce lifting strap with D2 shackle at one end and D1 shackle at other end

WLL [t]	Shakle colour coding	approx. stra thickness [mm]	p approx. B [mm]	approx. DØ* [mm]	approx. R* [mm]	approx. H ₁ * [mm]	approx. H ₂ * [mm]	approx. B ₁ * [mm]	min. length L1 [mm]	approx. weight first m [kg]	approx. weight running m [kg]
1	violet	3	40	16	30	60	150	94	1,0	0,93	0,06
2	green	3	80	18	32,5	70	165	150	1,0	1,59	0,16
3	yellow	3	120	20	45	80	200	200	1,0	2,43	0,24

Edge protection: permanently coated lifting straps and PowerForce

e	No protection	NEW PowerForce	Powerflex [PF]	secuflex [SX]	Single sided [S1]	Double sided [S2]
ant	No coating	No coating, HMPE ⁴ fabric	Fully covered with PU	PU coating on one side, sealed on other side	PU coating on one side	PU coating on both sides
ss section		***************************************				
ooth edge sharp	•	0	0	0	0	0
i gh edges sharp		•	•	0	0	0
ged edge p		•		•	•	•
ling edges mm, sharp		•		•	•	•
/ sharp edges mm, very sharp					O [*]	o*

Key: ★ Expert advice required!, • Our recommendation, ○ Suitable

1 The DIN EN 1492-1 standard does not explicitly list "HMPE" or the "white label". HMPE is suitable for use at temperatures of +60°C compared to the standard. ²Lifting straps with "C1" fitting components at both ends, ³Lifting straps with fitting components at both ends: "C1" at one end and "C1" pass-through fitting components at the other.

