Sal-Tech Easy Packaging

Straps, Buckles and Protectors for Strapping



STEP Straps

The primary item used in strapping. Sal-Tech Easy Packaging offer you a variety of strapping bands used in wide variety of applications.

Steel Strap

The strongest strapping material. The use of metal as a strapping medium dates back to the ancient times. With the advent of steel, it becomes the material of choice for heavy duty strapping.

Choose between:

Strap Width: Thickness: Surface: Coil Type: Tensile strength: Sold per kg as price basis.

Single ring weigh between 22 and 31 kgs Continuos/Oscillating rings weigh 50kg

Not all variations are on stock.

Steel Strap Specifications

Width	Thickness	Surface	Coil Type	Coil weight	Item No.
	0.5	Blank	Single Ring	22ka	57135010
13	0.5	Black	Single King	22kg	57135011
	0.5	Black	Continous Ring	50kg	57135111
	0.5	Blank	Single Ding	26kg	57165010
16	0.5	Black	Single Ring	ZOKY	57165011
	0.5	Black	Continous Ring	50kg	57165111
	0.5	Blank	Single Ding	31kg	57195010
19	0.8	Blank	Single Ring	этку	57198010
	0.5	Black	Continous Ring	50kg	57195111
	0.8	Blank	Single Ding	38kg	57258010
25	0.8	Black	Single Ring	зоку	57258011
	0.8	Black	Continous Ring	50kg	57258111
	0.8	Blank	Single Ping	50kg	57388010
38	0.8	Black	Single Ring	50kg	57388011
	0.8	Black	Continous Ring	50kg	57388111

Polypropylene (PP) Strap

STEP Polypropyplene (PP) Straps are good for single standing machines in your production space in direct contact with the operator, easy applications and cheap.

PP strap is used in widely used in packaging industry, it has good strength and welding capacities. PP straps can be manufactured in many different width, thickness and colors and can be wound on many differrent coil dimensions. We have many types on stock. Ask us for more available specifications.



Strap Specifications			Roll Distribution						
Width	Thickness	Strength (N)	Color	Core Ø	Core width	Meters /roll	Rolls/crt	24/30 carton 1 pallet	ltem No.
	0,40	450	White	150	160	6000	2		51540330
5	0,40	450	Black White	200	190	8000	2		51540510 51540560
	0,45	600	Black White	200	190	7000	2		51545510 51545560
6	0,55	750	Black White	200	190	5000	2	ת	51655510 51655560
	0,65	1000	White	280	190	4200	2	Re	51665660
9	0,55	1200	Black Blue White	200	190	3000	2	Request	51955510 51955520 51955560
	0,55	1350	Black Blue White	200	190	3000	2	est p	51255510 51255520 51255560
12	0,55	1350	Black Blue White	280	190	2500	2	price	51255610 51255620 51255660
	0,63	1500	Black	200	190	3000	2		51263510
	0,63	1500	White	280	190	2100	2		51263660
	0,63	1500	Black	406	150	3000	1		51263710
	0,73	2700	Black	406	150	2000	1		51273710
	0,60	1900	Black	200	190	2000	2		51360510
15,5	0,65	1900	Black	280	190	1500	2		51365610

Stran Specifications

Boll Distribution

PP Straps in Box Dispensers

12 x 0.45mm Black	51250910	Center and	1000m
15.5 x 0.6mm Black	51360910	side delivery of strap	1000m



Woven Polyester/Polypropylen (WG) Strap Also known as corded or woven strap. A type of strapping band that can be

Also known as corded or woven strap. A type of strapping band that can be reusable to a certain degree. Commonly used together with a metal buckle which makes it adjustable.

WG Strap using metal buckles for tensioning and way of sealing





WG Strap Specifications							Item Number									
Strap Width	Name	Strength N	Col or	Core Ø	Coil Width	Meters/ Coil	Coils / Carton									
9	WG30	2750				250	8	53090250								
9	WG30	2750	Whit e Ø								1500	3	53091500			
13	WG40	3750					076					250	8	53130250		
13	WG40	3750										Ø76	150	1100	3	53131100
16	WG55	6000							-		850	3	53160850			
19	WG65	7500								500	3	53190500				
25	WG85	12500				400	3	53250400								

Not all types are permanently on stock

Polyester (PET) Strap

The strongest plastic composite used in strapping. A viable alternative to steel straps primarily due to its strength and cheaper prices.

It is ideal for pallet strapping.





PET Strap Specifications							ltem Number												
Width	Strap Thickness	Strength N	Color	Core Ø mm	Sp.bred mm	Meters/ Coil	Coils / Carton												
12,0	0.70	3900	Green			2000		52270750											
12,5	0.60	4000		Green	Green	_			_	_	_	_					2500		52E60750
15.5	0.70	5000				n ¤406	150	1800	1	52D70750									
19,0	0,80	10000				1000		52480750											

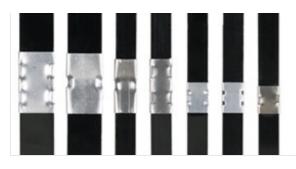
STEP Strapping Seals & Buckles

STEP offers a wide variety of strapping seals and buckles to accommodate your strapping needs. Strapping seals and buckles are crucial accessories for securing the polypropylene (PP) straps during the strapping process.

Three Main Types of Strapping Seals:

- Metal Seals
- Plastic Buckles
- Metal Buckles

These metal seals comes in different shapes and sizes to answer various strapping needs.



Plastic and Steel/Metal Buckles

Are used to secure and tension PP straps by pulling the strap through the buckle. A special type of manual or semiautomatic strapping tool is used to tension the straps

Plastic Buck	Plastic Buckles			
59511300	Plastic Buckle 13S Black 1000pcs/carton			
59511301	Plastic Buckle 13H White 5x1000pcs/carton MOQ 5000			
59511600	Plastic Buckle 16S Black 1000pcs/carton			
59511601	Plastic Buckle 16H White 5x1000pcs/carton MOQ5000			

Metal Buckles for WG strap

Are used to secure and tension WG straps by pulling the strap through the buckle. A special type of manual or semi-automatic strapping tool is used to tension the straps

Metal Buckles for WG Strap Specifications					
Strap Width	Design	Pieces/ Carton	Item Number		
9		1000	59510907		
13		1000	59511307		
16	Blank	1000	59511607		
19	DIALIK	1000	59511907		
25		500	59512507		
38		200	59513807		





Semi Open Metal Seals – STEP H-34, H-35 sealer and H-21 tensioner

Allows the seal to be placed along the strap. The strapping is sealed securely using a strapping tensioner and sealer. For use with STEP H-34 and H-35 when tensioning with STEP H-21 on PP strap.

Common type names: VZ2654, VZ2754, S12, S16

Open Type Seal Steel – Standard Length				
59511302	Semi Open Type 13 x30x0,5mm 2000pcs/box			
59511602	Semi Open Type 16 x30x0,5mm 2000pcs/box			



Semi Open Metal Seals – STEP H42 combination tool

Allows the seal to be placed between the jaws of the combination tools due toits shorter length. The strapping is sealed securely using a strapping combination tool. For use with H42 tensioning and sealer in one tool when using PP strap.

Open Type Seal Steel – Short Length				
59511304	Semi Open Type 13 x25-28x0,5mm 2000pcs/box			
59511604	Semi Open Type 16 x25-28x0,5mm 2000pcs/box			



Semi Open Metal Seals – HEAVY DUTY with CUT CORNER

Allows the seal to be placed along the strap. The strapping is sealed securely using a strapping hand tool or combination tool. Extra thick seal to allow even better securing and higher breaking strength in the seal point. Can be used for PP and PET strap using Sealer H-34, H-35 and other tools.

Open Type Seal Steel – HEAVY DUTY CUT CORNER			
59511305	Seal AV406 heavy duty with cut corners13x32x0,6mm open 2000pcs/box		
59511605	Seal AV506 heavy duty with cut corners16x32x0,6mm open 2000pcs/box		

Serrated Metal Seals – STEP H44 combination tool and other.

Serrated Metal seals are for use with PET strap and have serrated teeth on the inside to grip onto the strap securely which helps to improve the breaking strain of the strapping seal. Type names: RG13, RG16, RG 19, VZ2774

Serrated Metal Seals Heavy Duty					
Strap Width	Dimension	Pieces per Carton	Item Number		
13	13x30x0,6	1000	59511309		
16	16x30x0,6	1000	59511609		
19	19x30x0,6	1000	59511909		



Push type seals for PP and PET strapping Closed push type seal

Push Type Seal BK series for PP and PET strap Strap Width Description **Item Number** Push Type Seal 303BK 10 59511006 10x25x0.6mm Push Type Seal 403BK 13 59511306 13x25x0.6mm Push Type Seal 503BK 16 59511606 16x25x0,6mm Push Type Seal 603BK 19 59511906 19x25x0.6mm

Push type seals for Steel Strapping

Closed push type seal

Push Type Seal VZseries for Steel strap				
Strap Width	Description	Item Number		
10	Push Type Seal 2333VZ10x22x0.6mm	59511010		
13	Push Type Seal 2334VZ 13x22x0.6mm	59511310		
16	Push Type Seal 2335VZ 16x22x0,6mm	59511610		
19	Push Type Seal 2336VZ 19x22x0.6mm	59511910		



STEP Edge and Corner Protectors

STEP Edge Protectors

Used to avoid edge damage in the bundling or strapping process. The high tension of the straps can damage or deform the outer form of a heavy box or a package. Edge protectors are placed in the way of the strap. Edge protectors are made of plastic and is hard enough to resist the strap tension but is very light as to not leave a mark on the box or the packaging.



Specifications:

Туре	Item No.	Dimension	Pieces per Carton
3524	59523524	Angle 35 x 24mm	2000
4530	59524530	Angle 45 x 30mm	1700
5030	59525030	Angle 50 x 30mm	1200
5035UP	59525035	Angle 50 x 35mm without tap	2000
5035MP	59525135	Angle 50 x 35mm with tap	2000
6050	59526050	Angle 60 x 50mm	1000
7050	59527050	Angle 70 x 50mm	800



STEP Corner Protectors

Used primarily for protecting the fidelity of the packaging medium, more commonly used in box packaging. The hard plastic protectors are mostly placed at the box corners to maintain the packaging form.

Specifications:

Туре	Item No.	Dimension	Pieces per Carton
4018	59534018	Angle 40 x 18mm	2700
4020	59534020	Angle 40 x 20mm	2500
4022	59534022	Angle 40 x 22mm	2200
5028	59535028	Angle 50 x 28mm	1000
7028	59537028	Angle 70 x 28mm open side	1000
10028	59531028	Angle 100x100x28	4000
10040	59531040	Angle 100x100x40	2900
10060	59531060	Angle 100x100x60	1800



Edge boards

Will be added shortly, make request.

STRAP

Strap Types:

Plastic Strap	Steel Strap	Wowen Strap		
PP strap – Polypropylen PET strap – Polyester PA strap – Polyamid	Blank steel strap Blue steel strap Black painted steel strap Stainless steel strap	WG strap – Woven basic string hotmelt glued Polyester EG strap – Woven basic string holmelt glued polypropylen Woven strap – Polyester or Polypropylen		

Delivery Forms: On ordering it is important to know how the strap is fitted onto your equipment. Typically strap is delivered on inside core diameter Ø60, Ø76, Ø150, Ø200, Ø230, Ø280 or Ø406 and again these in some standard width of 110, 150, 190mm. The number of meters per coil, ending method, geometrical lock or tape, option of reflector you need to know and decide on ordering.

Steel strap is delivered in single coils and multiple oscillating coils.

Strap width that is in production goes from 4 mm to 38 mm and wider if woven types.

Special applications – The normal and the odd:

PET the stiff strap that often is used to substitute steel strap because it is easy to push through openings and has high tensile strength.

PA strap that is hydroscopic making it able to work with the product it is holding, wet timber expand and subtract in being wet or dry.

WG strap has high tensile strength and is very flexible around corners and can work with the product.

PP strap is good for single standing machines in your production space in direct contact with the operator, easy applications and cheap.

Stainless steel strap when the application needs it.

Environmental Conditions: PP material has components are of special interest as they often are heat welded:

Polypropylene Homopolymere	approx. 97 %
Chalk	approx. 2-3 %
Color pigment non toxic	approx. 1-2 %

Toxic and Chemical Reactions: Polypropylene and Polyester are chemically and biologically inactive. Polypropylene and Polyester can be used in contact with food stuff.

Physical contact: No risk, except mechanical.

Welding of PP material: It is recommended to keep the working area well ventilated at all times. In welding with temperatures below 150°, smoke and damp will be minimal and harmless.

It cannot be recommended to heat weld PET – Polyester without having direct ventilation and it will be best suited for use where the operator is not close by.

Both PP and PET can be friction and ultra sonic welded, without the need to have ventilation. The welding fumes are kept within the welding zone.

Risk of Fire: When polypropylene is heated in air the material will melt at approx. 165 - 170° and decompose will start at 300° giving low molykule hydrocarbons. It will self ignite at 380°.

Burning: Controlled burning is recommended. If ignited, the material will continue to burn, even if the ignition source is removed. Decomposition products from burning are H20 and CO2. If burned with low presence of oxygen, then it will produce mono oxide, that is toxic.

Reuse: According to German law PP material for packaging must be black. We recommend this color is used. For PET strap the color is green. PET material is very easy to reuse.