

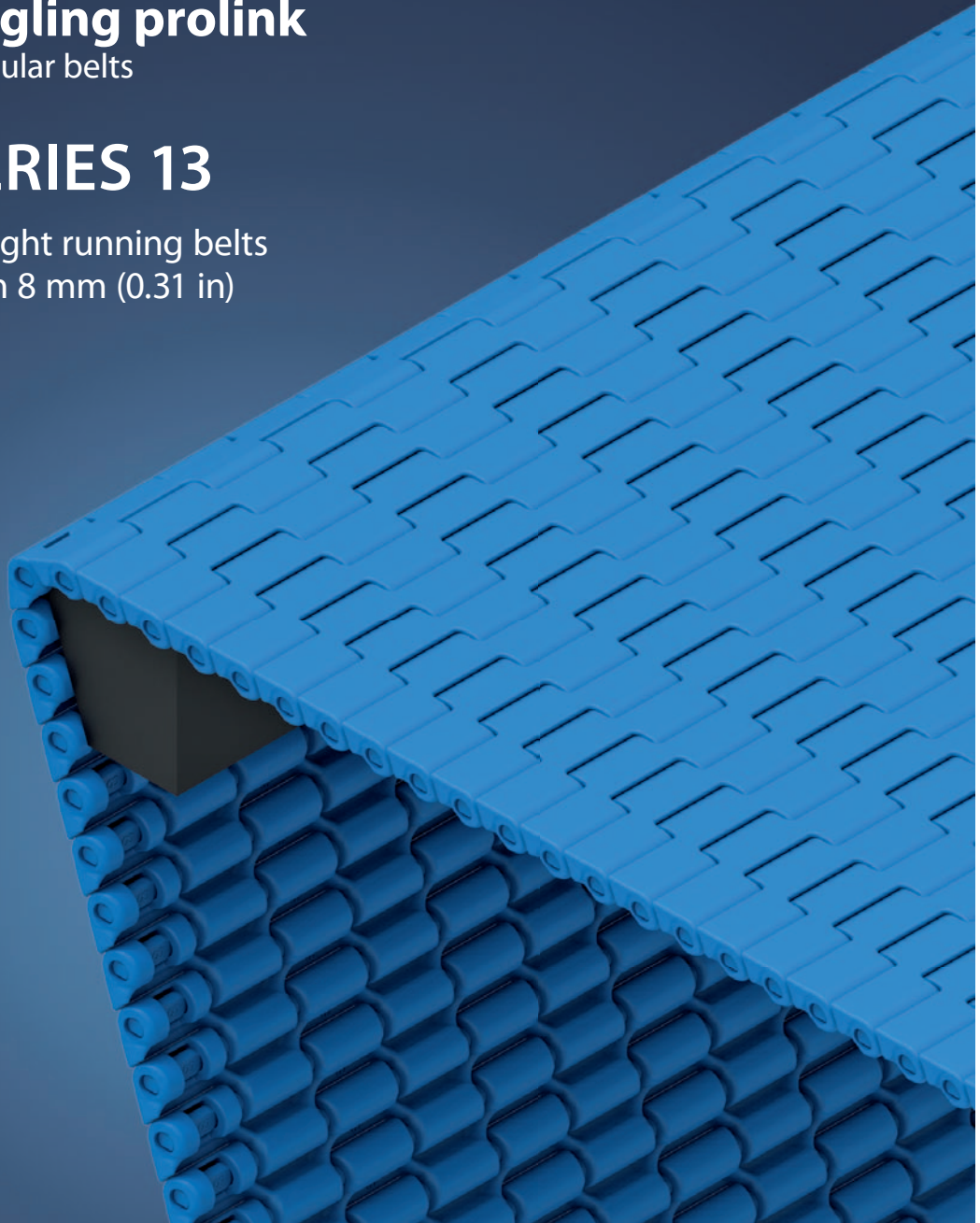
# EXCERPT FROM PROLINK ENGINEERING MANUAL

02/22 (Ref-No. 888)

**siegling prolink**  
modular belts

## SERIES 13

Straight running belts  
Pitch 8 mm (0.31 in)



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Ref. no. 888-2\_1.2\_S13

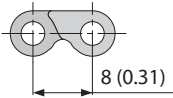
# SERIES 13 | OVERVIEW

siegling prolink  
modular belts

Straight running belts | Pitch 8 mm (0.31 in)

## Belts for light-duty food and non-food nose bar applications

### Side view scale 1:1



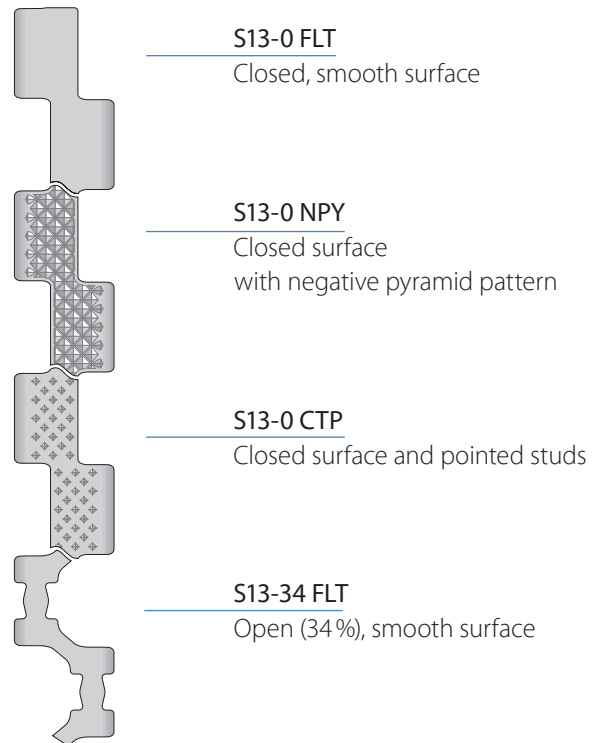
### Design characteristics

- Micro pitch belt with small transfer gaps
- Designed to run over nosebars/knife edges or rollers with a radius down to 3 mm (0.12 in) allowing, precise transfer of even the smallest products
- Versatile for conveying, drying and cooling applications
- Optimal design of sprocket teeth, and belt underside provides superior sprocket engagement, safe belt tracking and favorable cleanability
- Belt and sprocket design ensures superior load transmission and belt pull capacity
- Headless pin making it very easy to install and remove the belt for maintenance

### Basic data

Pitch	8 mm (0.31 in)
Belt width min.	102 mm (4 in)
Width increments	25.4 mm (1 in)
Hinge pins	3 mm (0.12 in) made of plastic (PLX)

### Available surface pattern and opening area



NSF-compliant from these certified Forbo plants:  
Huntersville (USA), Maharashtra (India), Malacky (Slovakia),  
NSW (Australia), Pinghu (China), Shizuoka (Japan),  
Tlalnepantla (Mexico)

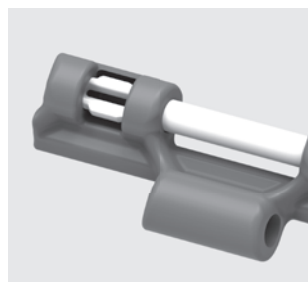
### Sprockets

In different sizes with round or square sprocket bore



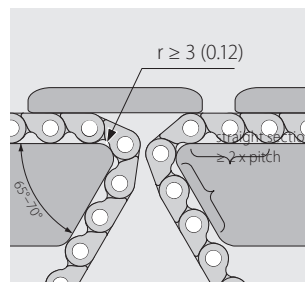
### Detail hinge pin

Headless pin with unique shoulder design ensures trouble free installation, maintenance and a secure pin retention



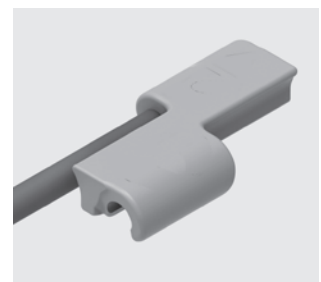
### Detail nose bar

Narrow transfer gap ensures smooth transfer of small and delicate products



### ProSnap

Quick-Release for easy opening and closing of the belt



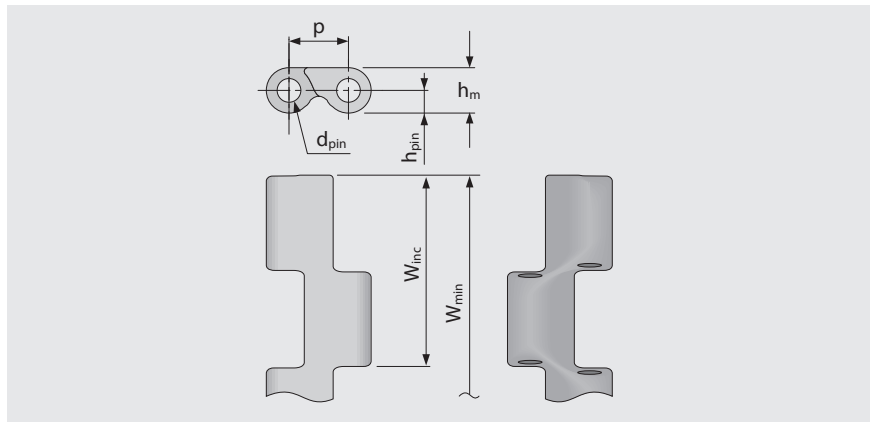
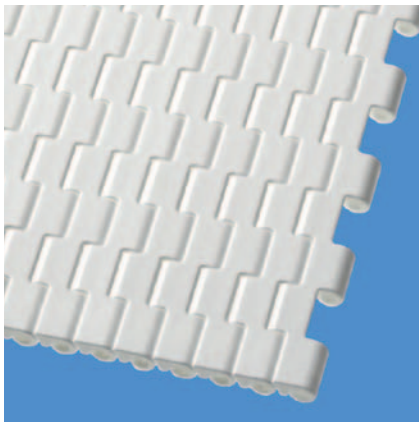
# SERIES 13 | BELT TYPES

siegling prolink  
modular belts

Straight running belt | Pitch 8 mm (0.31 in)

## S13-0 FLT | 0% Opening | Flat top

Closed, smooth surface | Flat top surface



### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1 C <sub>c</sub> x W <sub>B</sub>	r2	r3	r4	r5
mm	8.0	3.0	6.0	3.0	0.0	101.6	25.4	±0.2	–	3.0	16.0	24.0	8.0
inch	0.31	0.12	0.24	0.12	0.0	4.0	1.0	±0.2	–	0.12	0.63	0.94	0.31

### Available standard materials<sup>4)</sup>

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
POM	WT	PLX	BL	4	274	5.9	1.21	0.23	-45/90	-49/194	●	●
POM	BL	PLX	BL	4	274	5.9	1.21	0.23	-45/90	-49/194	●	●
PA*	BL	PLX	BL	4	274	5.1	1.04	1.38	-40/120	-40/248	●	●

Mold to order belts												
PA*	LG	PLX	BL	4	274	5.1	1.04	1.38	-40/120	-40/248	●	●
PA-HT	BL	PA-HT	UC	4	274	5.7	1.17	1.77	-30/155	-22/311	●	●
PXX-HC	BK	PLX	BL	2	137	5.2	1.07	0.89	5/100	41/212	–	–

Mold to width available in: 102 mm (4.0 in), 152 mm (6.0 in), 203 mm (8.0 in), 305 mm (12.0 in)

\* Values valid for dry applications (RH < 50%). Belts in PA material will absorb water in wet environments, causing them to expand and reduce the nominal belt pull capacity.

■ BK (Black), ■ BL (Blue), ■ LG (Light gray), □ UC (Uncolored), □ WT (White)

All measurements and tolerances apply at 21 °C; for temperature deviations please see ProLink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

<sup>2)</sup> Complies with FDA 21 CFR

<sup>3)</sup> Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds

<sup>4)</sup> More materials and colors on request



MOVEMENT SYSTEMS

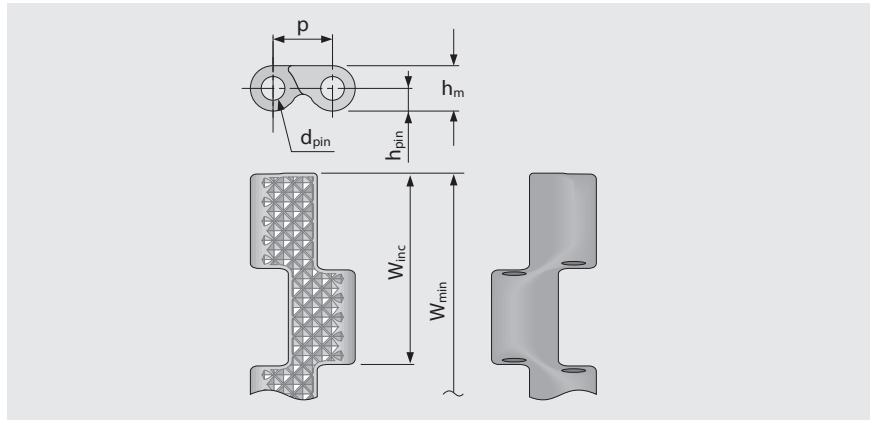
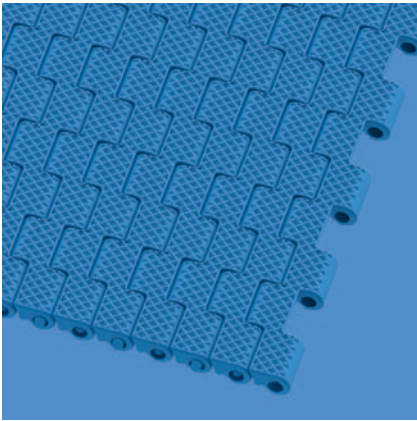
# SERIES 13 | BELT TYPES

siegling prolink  
modular belts

Straight running belt | Pitch 8 mm (0.31 in)

## S13-0 NPY | 0% Opening | Negative pyramid

Closed surface with negative pyramid pattern | Provides superb release characteristics when conveying wet or sticky products | 61 % contact area



### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1 C <sub>c</sub> x W <sub>B</sub>	r2	r3	r4	r5
mm	8.0	3.0	6.0	3.0	0.0	101.6	25.4	±0.2	–	3.0	16.0	24.0	8.0
inch	0.31	0.12	0.24	0.12	0.0	4.0	1.0	±0.2	–	0.12	0.63	0.94	0.31

### Available standard materials<sup>4)</sup>

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
POM	BL	PLX	BL	4	274	5.9	1.21	0.23	-45/90	-49/194	●	●

Mold to width available in: 102 mm (4.0 in), 152 mm (6.0 in), 203 mm (8.0 in), 305 mm (12.0 in)

■ BL (Blue)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".  
All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

<sup>2)</sup> Complies with FDA 21 CFR

<sup>3)</sup> Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds

<sup>4)</sup> More materials and colors on request



MOVEMENT SYSTEMS

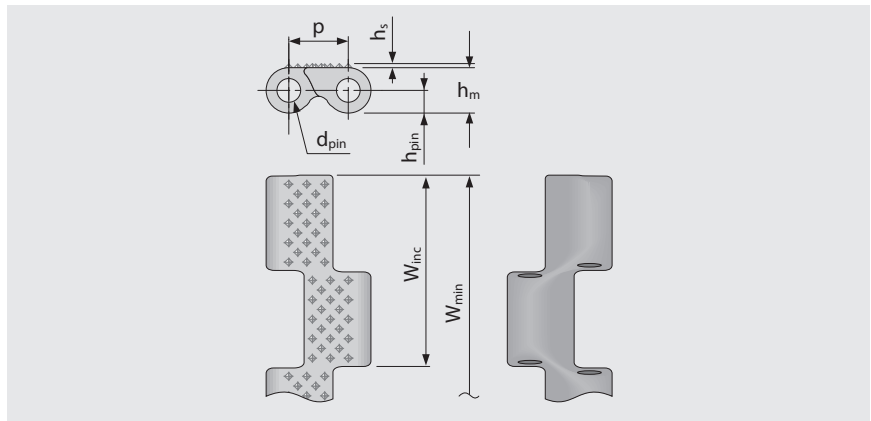
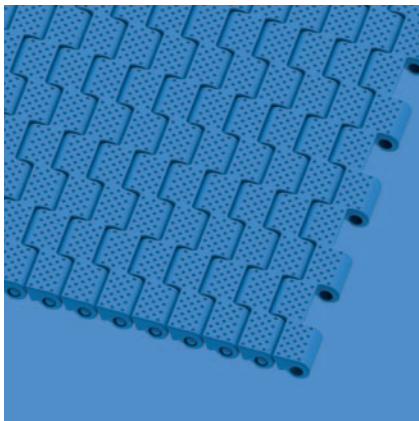
# SERIES 13 | BELT TYPES

siegling prolink  
modular belts

Straight running belt | Pitch 8 mm (0.31 in)

## S13-0 CTP | 0% Opening | Cone top (pointed studs)

Closed surface and pointed studs | Cone top surface pattern for superior grip



### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1 C <sub>c</sub> x W <sub>B</sub>	r2	r3	r4	r5
mm	8.0	3.0	6.0	3.0	0.4	101.6	25.4	±0.2	–	3.0	16.0	24.0	8.0
inch	0.31	0.12	0.24	0.12	0.02	4.0	1.0	±0.2	–	0.12	0.63	0.94	0.31

### Available standard materials<sup>4)</sup>

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
POM	BL	PLX	BL	4	274	5.9	1.21	0.23	-45/90	-49/194	●	●
PA*	BL	PLX	BL	4	274	5.1	1.04	1.38	-40/120	-40/248	●	●

Mold to width available in: 305 mm (12.0 in)

\* Values valid for dry applications (RH < 50%). Belts in PA material will absorb water in wet environments, causing them to expand and reduce the nominal belt pull capacity.

■ BL (Blue), □ UC (Uncolored)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

<sup>2)</sup> Complies with FDA 21 CFR

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<sup>4)</sup> More materials and colors on request



MOVEMENT SYSTEMS

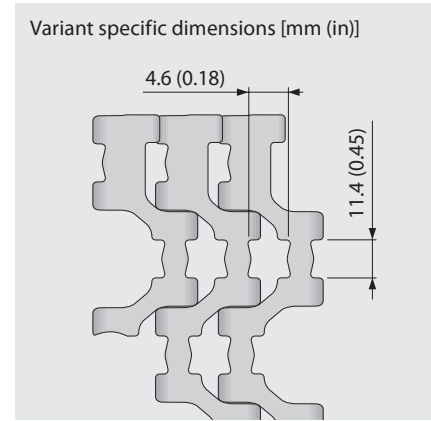
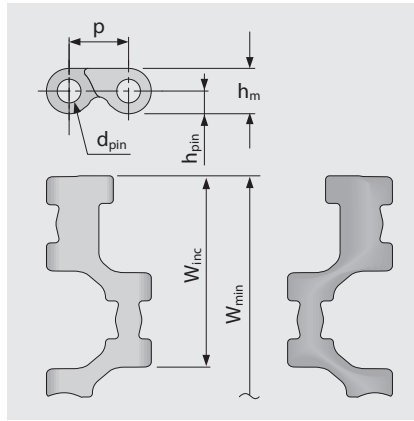
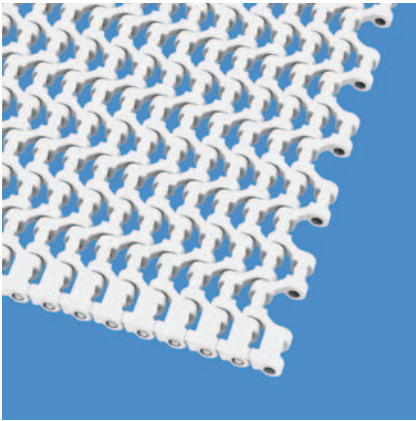
# SERIES 13 | BELT TYPES

siegling prolink  
modular belts

Straight running belt | Pitch 8 mm (0.31 in)

## S13-34 FLT | 34% Opening | Flat top

Open area (34%) for excellent air circulation and drainage | 47% contact area (Largest opening: 11.4 x 4.6 mm/0.45 x 0.18 in);  
Smooth surface | Easy-to-clean



### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1 C <sub>c</sub> x W <sub>B</sub>	r2	r3	r4	r5
mm	8.0	3.0	6.0	3.0	0.0	101.6	25.4	±0.2	–	3.0	16.0	24.0	8.0
inch	0.31	0.12	0.24	0.12	0.0	4.0	1.0	±0.2	–	0.12	0.63	0.94	0.31

### Available standard materials<sup>4)</sup>

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
POM	WT	PLX	BL	4	274	4.3	0.88	0.23	-45/90	-49/194	●	●
POM	BL	PLX	BL	4	274	4.3	0.88	0.23	-45/90	-49/194	●	●
PA*	BL	PLX	BL	4	274	3.7	0.76	1.38	-40/120	-40/248	●	●
Mold to order belts												
PA-HT	BL	PA-HT	UC	4	274	4.2	0.86	1.38	-30/155	-22/311	●	●

Mold to width available in: 305 mm (12.0 in)

\* Values valid for dry applications (RH < 50%). Belts in PA material will absorb water in wet environments, causing them to expand and reduce the nominal belt pull capacity.

■ BL (Blue), □ UC (Uncolored), □ WT (White)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

<sup>2)</sup> Complies with FDA 21 CFR

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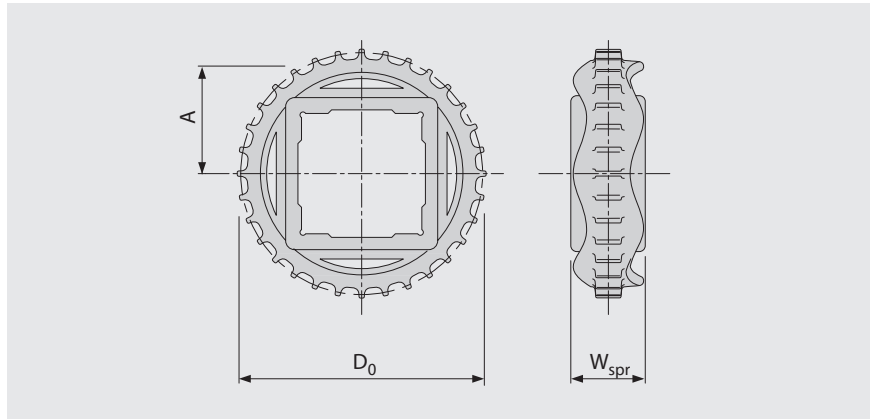
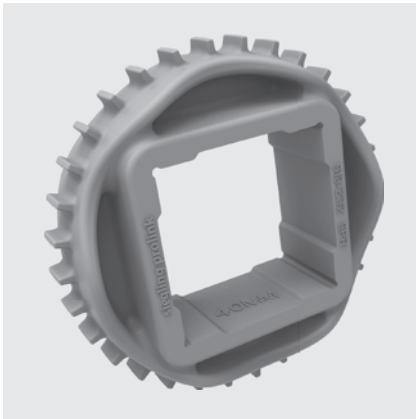
MOVEMENT SYSTEMS

# SERIES 13 | SPROCKETS

siegling prolink  
modular belts

Straight running belt | Pitch 8 mm (0.31 in)

## S13 SPR | Sprockets



### Main dimensions

Sprocket size (Number of teeth)		Z15	Z24	Z32	Z48
W <sub>spr</sub>	mm	25.0	25.0	25.0	25.0
	inch	0.98	0.98	0.98	0.98
D <sub>0</sub>	mm	39.1	62.3	82.9	124.2
	inch	1.54	2.45	3.26	4.89
A <sub>max</sub>	mm	16.6	28.2	38.5	59.1
	inch	0.65	1.11	1.52	2.33
A <sub>min</sub>	mm	16.2	27.9	38.3	59.0
	inch	0.64	1.10	1.51	2.32

### Shaft bores (● = Round, ■ = Square)

20	mm	●/■			
25	mm		●/■	●	
30	mm		■		
40	mm			■	■
0.75	inch	●			
1	inch		●/■	●	
1.5	inch			■	■

Material: PA, Color: LG

■ LG (Light gray)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

For detailed sprocket and shaft dimensions see appendix 6.3

Number of sprockets (sprocket spacing distance) see chapter 3.2



MOVEMENT SYSTEMS

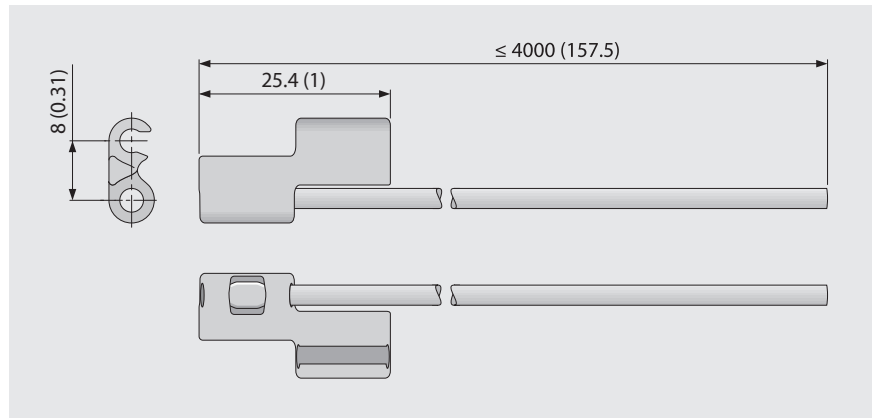
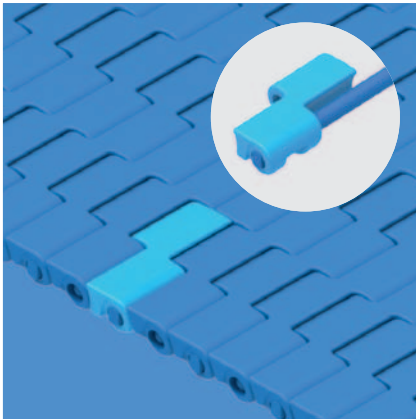
# SERIES 13 | PROSNAP

siegling prolink  
modular belts

Straight running belt | Pitch 8 mm (0.31 in)

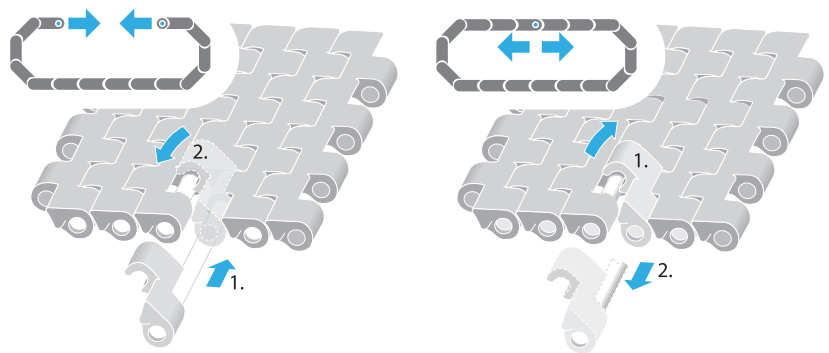
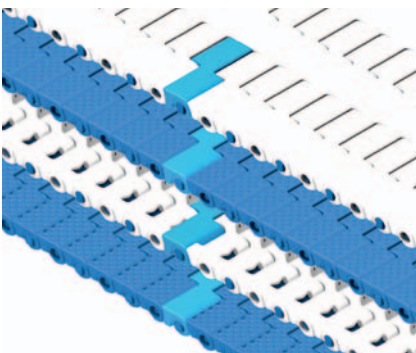
## S13-0 FLT PSP | ProSnap

Quick-Release for easy, quick and toolless opening and closing of the belt | One pin solution for entire belt width



### Basic data

Material	Color	Pin material/length	
		≤ 610 mm (24 inch)	> 610 mm (24 inch) ≤ 4000 mm (157 inch)
POM	LB	PLX	PBT
<b>Mold to order belts</b>			
POM-MD	BL	PLX	PBT



■ BL (Blue), ■ LB (Light blue)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

Note: Use of accessory in a belt may impact on the minimum design radii. Please see chapter 6.3 for further information.

Forbo

MOVEMENT SYSTEMS



# LEGEND

① Series
S1 ... S18

② Open area/Sprocket size
Percentage open area Format: xx E.g. 20 = 20%
For sprockets: number of teeth Format: "Z"xx E.g. Z12 = 12 teeth

③ Surface pattern
<b>BSL</b> Base module for slider
<b>CTP</b> Cone top
<b>CUT</b> Curved top
<b>FLT</b> Flat top (smooth)
<b>FRT-OG</b> Friction top without High Grip insert
<b>FRT(X)</b> Friction top (Design X)
<b>GRT</b> Grid top
<b>HDK</b> High Deck
<b>LRB</b> Lateral rib
<b>MOD</b> Modified module shape
<b>NCL</b> No cling
<b>NPY</b> Negative pyramid
<b>NSK</b> Non skid
<b>NSK2</b> Non skid, nonwoven variant
<b>NTP</b> Nub top (round studs)
<b>PRR</b> Pin Retained Rollers
<b>RAT</b> Radius top
<b>RRB</b> Raised rib
<b>RSA</b> Reduced surface area
<b>RTP</b> Roller top
<b>SRS</b> Slip-resistant surface

④ Type
<b>BPU</b> Bucket profile
<b>CAP</b> Pin lock & belt edge sealing
<b>CCW</b> Counter clockwise
<b>CLP</b> Clip
<b>CM</b> Center module
<b>CW</b> Clockwise
<b>FPL</b> Finger plate
<b>HDT</b> Hold Down Tab
<b>IDL</b> Idler
<b>PIN</b> Coupling rod
<b>PMC</b> Profile module center
<b>PMU</b> Profile module universal
<b>PSP</b> ProSnap
<b>RI</b> High Grip insert
<b>RTR</b> Retaining ring
<b>SG</b> Module with sideguard
<b>SLI</b> Slider
<b>SML</b> Side module, left
<b>SMR</b> Side module, right
<b>SMU</b> Side module, universal/both sides
<b>SPR</b> Sprocket
<b>TPL</b> Turning panel, left
<b>TPR</b> Turning panel, right
<b>UM</b> Universal module
<b>WSC</b> Wheel Stopper Center
<b>WSS</b> Wheel Stopper Side

⑥ Style
<b>1.7</b> 1.7 collapse factor
<b>2.2</b> 2.2 collapse factor
<b>2.2 G</b> 2.2 collapse factor, guided
<b>A90</b> Angle 90° to conveying direction
<b>BT</b> Bearing tab
<b>DR</b> Double row sprocket
<b>F1, F2, F3 ...</b> Collapse factor modules
<b>G</b> Guided
<b>GT</b> Guiding tabs
<b>HD</b> Hold Down
<b>Ixx</b> xx = indent in mm
<b>RG</b> Reversed guided
<b>SG</b> Side guard
<b>SP</b> Split sprocket
<b>ST</b> Strong

⑥ Material
<b>PA</b> Polyamide
<b>PA-HT</b> Polyamide high temperature
<b>PBT</b> Polybutylentere-phthalate
<b>PE</b> Polyethylene
<b>PE-MD</b> PE metal detectable
<b>PLX</b> Wear & impact improved polymer
<b>POM</b> Polyoxymethylene (Polyacetal)
<b>POM-CR</b> POM cut resistant
<b>POM-HC</b> POM highly conductive
<b>POM-MD</b> POM metal detectable
<b>POM-PE</b> POM side modules + PE center modules
<b>POM-PP</b> POM side modules + PP center modules
<b>PP</b> Polypropylene
<b>PXX-HC</b> Self-extinguishing highly conductive material
<b>R1</b> TPE 80 Shore A, PP
<b>R2</b> EPDM 80 Shore A, vulcanized
<b>R3</b> TPE 70 Shore A, POM
<b>R4</b> TPE 86 Shore A, PP
<b>R5</b> TPE 52 Shore A, PP
<b>R6</b> TPE 63 Shore A, POM
<b>R7</b> TPE 50 Shore A, PP
<b>R8</b> TPE 55 Shore A, PE
<b>SER</b> Self-extinguishing TPE
<b>SS</b> Stainless steel
<b>TPC1</b> Thermoplastic Copolyester
<b>-HA</b> Supports the HACCP concept
<b>-HW</b> High Wear resistant material

⑦ Color*	
<b>AT</b> Anthracite	
<b>BG</b> Beige	
<b>BK</b> Black	
<b>BL</b> Blue	
<b>DB</b> Dark blue	
<b>GN</b> Green	
<b>LB</b> Light blue	
<b>LG</b> Light gray	
<b>OR</b> Orange	
<b>RE</b> Red	
<b>TQ</b> Turquoise	
<b>UC</b> Uncolored	
<b>WT</b> White	
<b>YL</b> Yellow	

⑧ Height/Diameter/ Bore size and style
Height in mm (in) Format: Hxxx
Pin diameter in mm (in) Format: Dxxx
Bore size: SQ (= square) or RD (= round) either in mm or inches Format: SQxxMM or RDxxIN

⑨ Length/Width
Pins Length in mm (in) Format: Lxxx
Module width in mm (in) Format: Wxxx

\* For each series' standard colors please refer to the table of materials for each belt (chapter 1.2). A number of other colors are available on request. Colors can vary from the original due to the print, production processes or material used.