

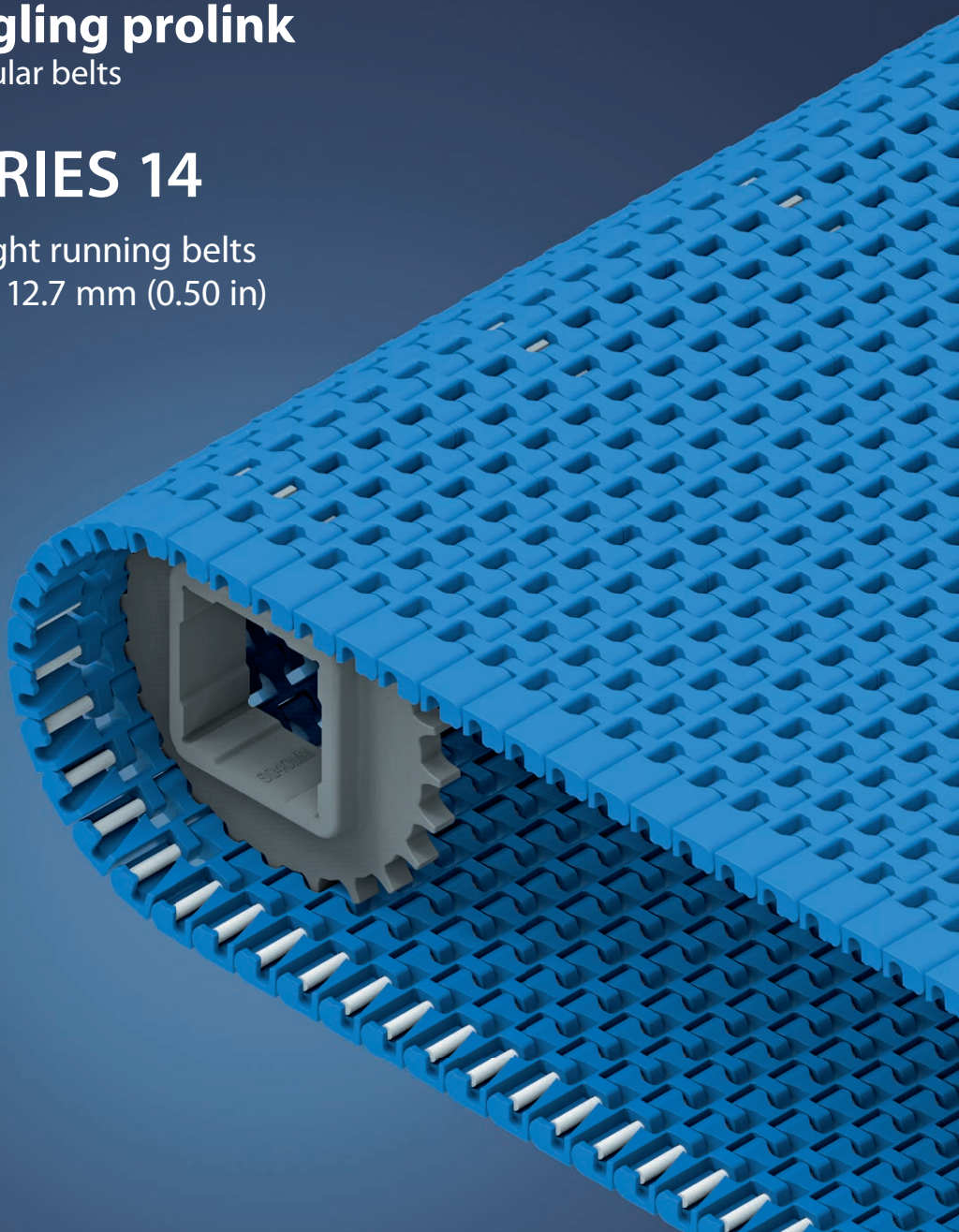
# EXCERPT FROM PROLINK ENGINEERING MANUAL

01/24 (Ref-No. 888)

**siegling prolink**  
modular belts

## SERIES 14

Straight running belts  
Pitch 12.7 mm (0.50 in)



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Ref. no. 888-2\_1.2\_S14

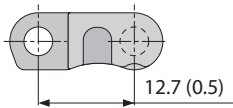
# SERIES 14 | OVERVIEW

**siegling prolink**  
modular belts

Straight running belts | Pitch 12.7 mm (0.50 in)

Belts for medium-duty food and non-food applications

## Side view scale 1:1



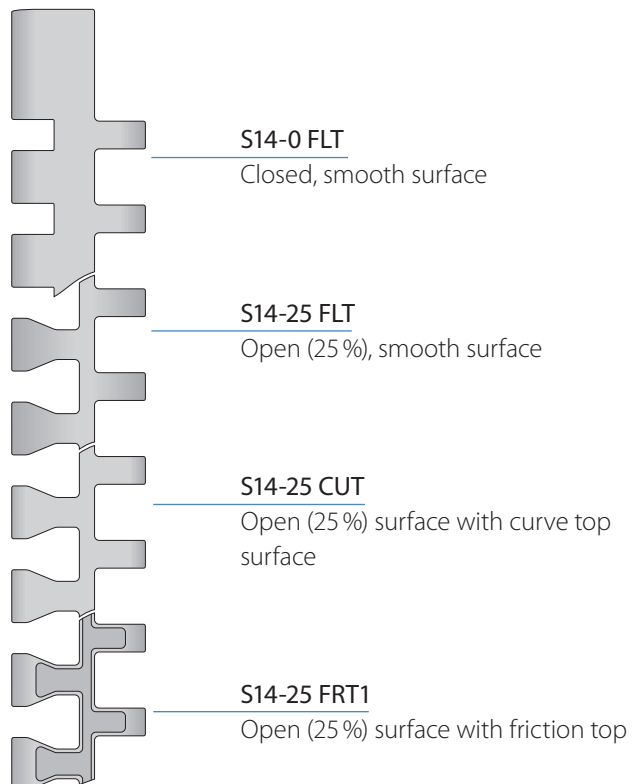
### Design characteristics

- Mini pitch belt with small transfer gap
- Robust design guarantees superior durability and high belt pull capacity
- Design for smooth run on 19 mm (0.75 in) nose bar
- Headless pin system making it easy to install and remove the belt for maintenance
- Closed, solid belt edge to prevent belt edge damages

### Basic data

Pitch	12.7 mm (0.50 in)
Belt width min.	76.2 mm (3.0 in)
Width increments	12.7 mm (0.50 in)
Hinge pins	3.4 mm (0.13 in) made of plastic (PP, PBT, PE). One-piece up to a belt width of 4000 mm (157.5 in).

## Available surface pattern and opening area



Certified

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

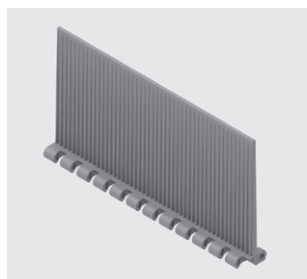
### Sprockets

in different sizes with round or square bore



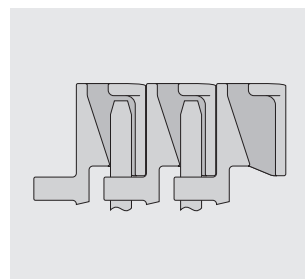
### Profiles

in different heights and designs for inclines



### Detail hinge pin

Headless one-piece pin with unique retention system ensures trouble free installation and maintenance



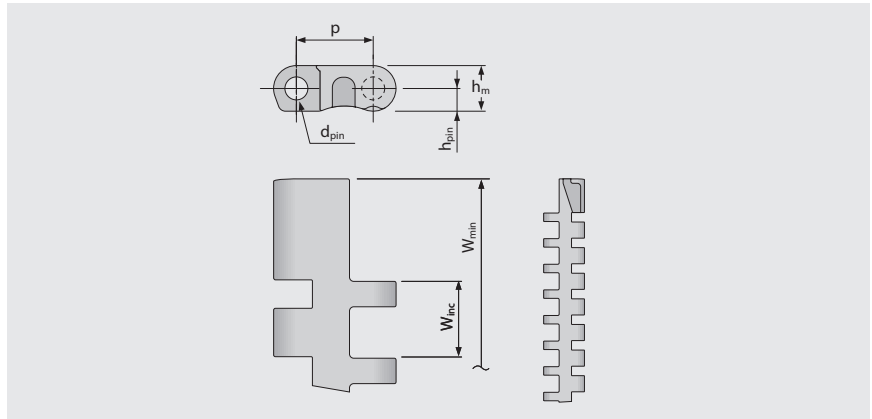
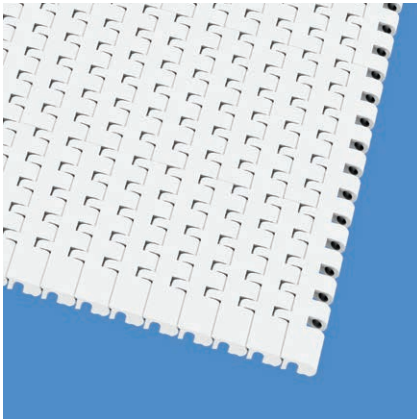
# SERIES 14 | BELT TYPES

**siebling prolink**  
modular belts

Straight running belt | Pitch 12.7 mm (0.50 in)

## S14-0 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	Pin position	Height	Width min.	Width Increment	Width tolerance [%]	r1 C <sub>c</sub> x W <sub>B</sub>	r2	r3	r4	r5
mm	12.7	3.4	7.5	3.8	0.0	76.2	12.7	±0.20	–	9.5	25.4	38.1	12.7
inch	0.5	0.13	0.3	0.15	0.0	3.0	0.5	±0.20	–	0.38	1.0	1.5	0.5

### Available standard materials<sup>3)</sup>

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates <sup>2)</sup>		
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA	EU	MHLW
POM	BL	PBT	UC	24	1645	7.5	1.41	0.0	-45/90	-49/194	●	●	●
POM	WT	PBT	UC	24	1645	7.5	1.41	0.0	-45/90	-49/194	●	●	
PP	BL	PP	WT	9	617	4.8	1.0	0.43	5/100	41/212	●	●	
PP	WT	PP	WT	9	617	4.8	1.0	0.43	5/100	41/212	●	●	●
PE	BL	PE	WT	6.5	445	5.0	0.96	-0.13	-70/65	-94/149	●	●	
PE	WT	PE	WT	6.5	445	5.0	0.96	-0.13	-70/65	-94/149	●	●	●

■ 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 | Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds | Complies with Japanese MHLW Notification 370

● = available | – = not available | empty cells = not tested

<sup>3)</sup> More materials and colors on request



MOVEMENT SYSTEMS

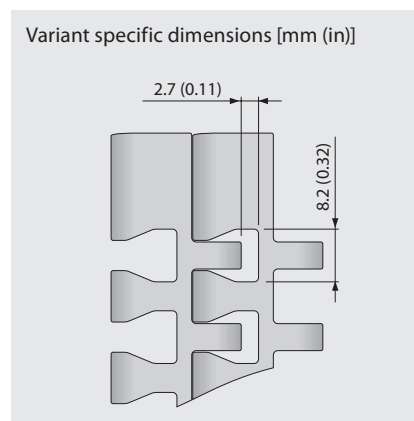
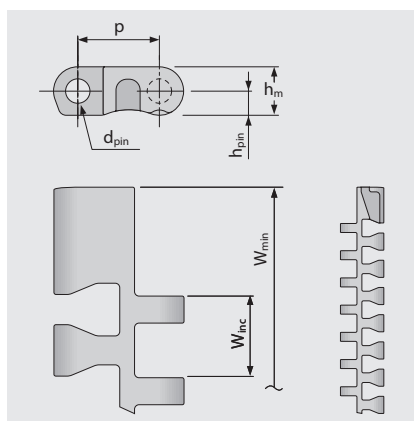
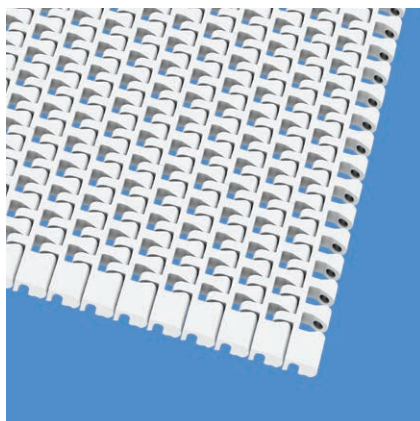
# SERIES 14 | BELT TYPES

siebling prolink  
modular belts

Straight running belt | Pitch 12.7 mm (0.50 in)

## S14-25 FLT | 25 % Opening | Flat top

Open version (25 %) for excellent air circulation and drainage | 52 % contact area (Largest opening: 8.2 x 2.7 mm/0.32 x 0.11 in) | Smooth 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	Pin position	Height	Width min.	Width Increment	Width tolerance [%]	r1 C <sub>c</sub> x W <sub>B</sub>	r2	r3	r4	r5
mm	12.7	3.4	7.5	3.8	0.0	76.2	12.7	±0.20	–	9.5	25.4	38.1	12.7
inch	0.5	0.13	0.3	0.15	0.0	3.0	0.5	±0.20	–	0.38	1.0	1.5	0.5

### Available standard materials <sup>3)</sup>

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates <sup>2)</sup>		
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA	EU	MHLW
POM	BL	PBT	UC	24	1645	7.0	1.41	0.0	-45/90	-49/194	●	●	●
POM	WT	PBT	UC	24	1645	7.0	1.41	0.0	-45/90	-49/194	●	●	
PP	BL	PP	WT	9	617	4.5	1.0	0.43	5/100	41/212	●	●	
PP	WT	PP	WT	9	617	4.5	1.0	0.43	5/100	41/212	●	●	●
PE	BL	PE	WT	6.5	445	4.7	0.96	-0.13	-70/65	-94/149	●	●	
PE	WT	PE	WT	6.5	445	4.7	0.96	-0.13	-70/65	-94/149	●	●	●

#### Mold to order belts

PA*	BL	PBT	UC	22	1507	5.8	1.19	0.92	-40/120	-40/248	●	●	
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\* 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 | Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds | Complies with Japanese MHLW Notification 370

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<sup>3)</sup> More materials and colors on request



MOVEMENT SYSTEMS

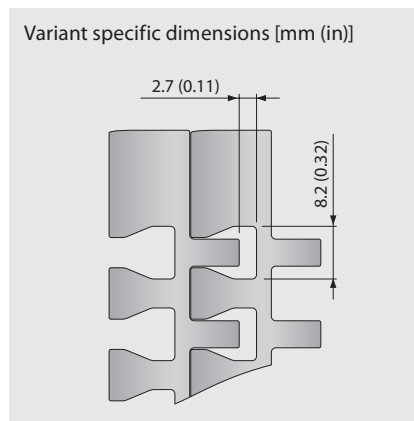
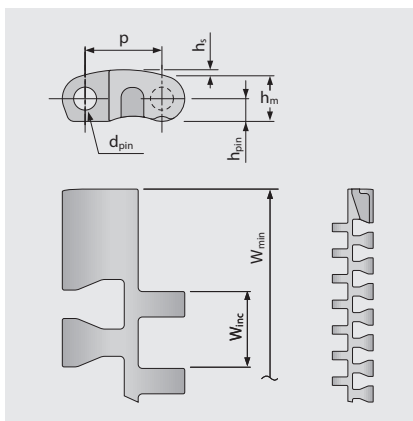
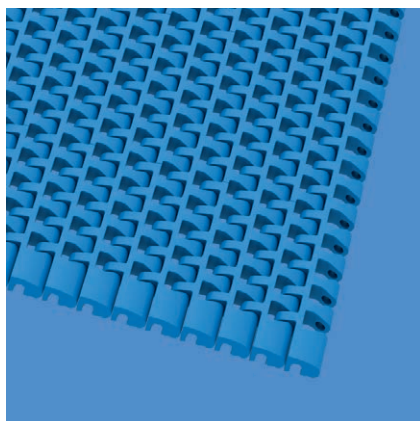
# SERIES 14 | BELT TYPES

**siebling prolink**  
modular belts

Straight running belt | Pitch 12.7 mm (0.50 in)

## S14-25 CUT | 25 % Opening | Curved top

Open version (25 %) for excellent air circulation and drainage | 26 % contact area (Largest opening: 8.2 x 2.7 mm/0.32 x 0.11 in) | Curved top



### 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	Pin position	Height	Width min.	Width Increment	Width tolerance [%]	r1 C <sub>c</sub> x W <sub>B</sub>	r2	r3	r4	r5
mm	12.7	3.4	7.5	3.8	1.1	76.2	12.7	±0.20	–	9.5	25.4	38.1	12.7
inch	0.5	0.13	0.3	0.15	0.04	3.0	0.5	±0.20	–	0.38	1.0	1.5	0.5

### Available standard materials<sup>3)</sup>

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates <sup>2)</sup>		
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA	EU	MHLW
POM	BL	PBT	UC	24	1645	7.3	1.5	0.0	-45/90	-49/194	●	●	●
PP	BL	PP	WT	9	617	4.8	0.98	0.43	5/100	41/212	●	●	

■ 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 | Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds | Complies with Japanese MHLW Notification 370

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<sup>3)</sup> More materials and colors on request



MOVEMENT SYSTEMS

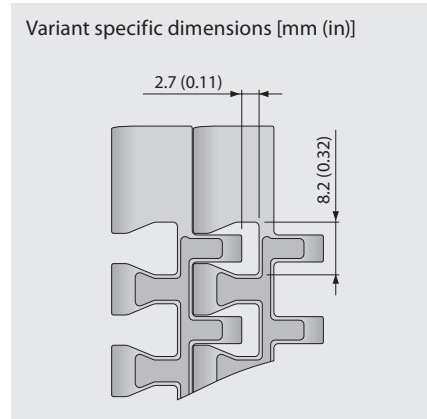
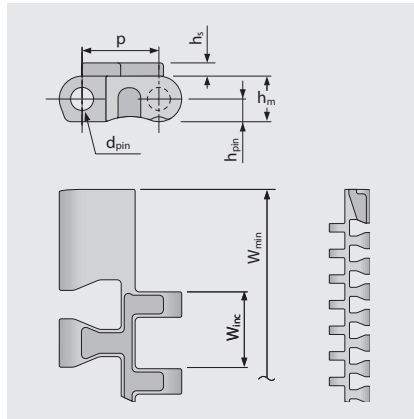
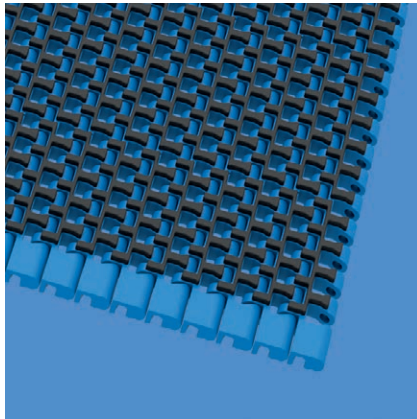
# SERIES 14 | BELT TYPES

**siegling prolink**  
modular belts

Straight running belt | Pitch 12.7 mm (0.50 in)

## S14-25 FRT1 | 25 % Opening | Friction top (Design 1)

Open version (25 %) for excellent air circulation and drainage with flat integrated friction pads (FRT1) for high grip | 32 % contact area | Version only available without FRT1 structure at the side (17 mm indent)

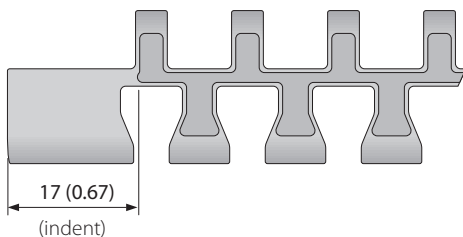


### Belt dimensions

	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	Pin position	Height	Width min.	Width Increment	Width tolerance [%]	r1 C <sub>c</sub> x W <sub>B</sub>	r2	r3	r4	r5
mm	12.7	3.4	7.5	3.8	2.2	76.2	12.7	±0.20	–	9.5	25.4	38.1	12.7
inch	0.5	0.13	0.3	0.15	0.09	3.0	0.5	±0.20	–	0.38	1.0	1.5	0.5

### Available standard materials<sup>3)</sup>

Belt		Pin		Rubber		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates <sup>2)</sup>		
Material	Color	Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA	EU	MHLW
PP	BL	PP	WT	R7	BK	9	617	5.1	1.05	0.43	5/100	41/212	●	●	
PP	WT	PP	WT	R7	BG	9	617	5.1	1.05	0.43	5/100	41/212	●	●	



■ BG (Beige), ■ BK (Black), ■ BL (Blue), □ 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 | Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds | Complies with Japanese MHLW Notification 370

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<sup>3)</sup> More materials and colors on request



MOVEMENT SYSTEMS

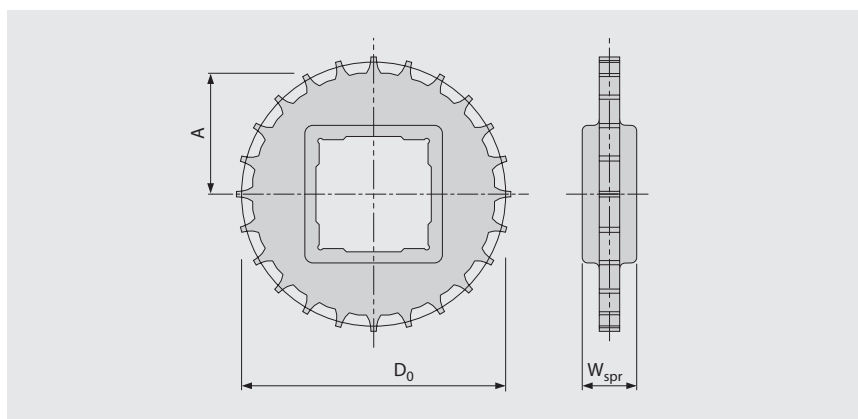
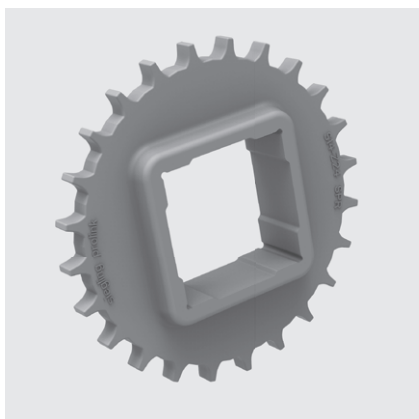


# SERIES 14 | SPROCKETS

siegling prolink  
modular belts

Straight running belt | Pitch 12.7 mm (0.50 in)

## S14 SPR | Sprockets



### Main dimensions

Sprocket size (Number of teeth)		Z12	Z15	Z19	Z24	Z28	Z36
W <sub>spr</sub>	mm	20.0	20.0	20.0	20.0	20.0	20.0
	inch	0.79	0.79	0.79	0.79	0.79	0.79
D <sub>0</sub>	mm	50.0	62.3	78.7	99.2	115.7	148.7
	inch	1.97	2.45	3.10	3.91	4.56	5.85
A <sub>max</sub>	mm	21.3	27.4	35.6	45.9	54.1	70.6
	inch	0.84	1.08	1.40	1.81	2.13	2.78
A <sub>min</sub>	mm	20.5	26.8	35.1	45.5	53.7	70.3
	inch	0.81	1.06	1.38	1.79	2.11	2.77

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

20	mm	●					
25	mm		●/■		●	●	
30	mm				●		
40	mm			■	■	■	■
60	mm						■
0.75	inch	●					
1	inch		●/■		●	●	
1.25	inch				●		
1.5	inch			■	■	■	■
2.5	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

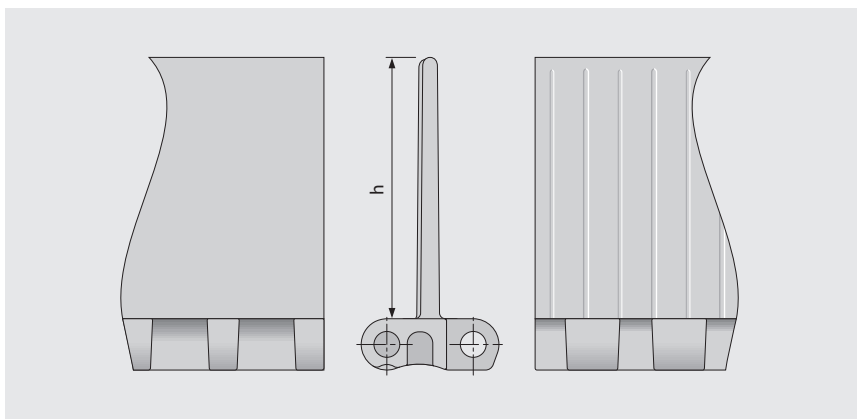
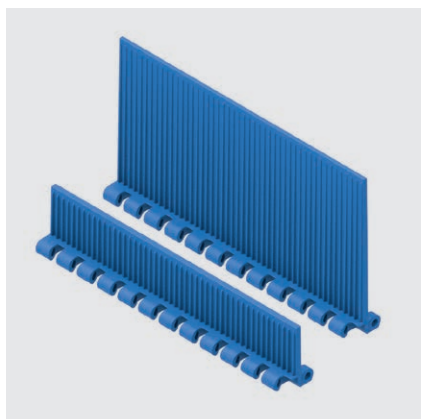
# SERIES 14 | PROFILES

Straight running belt | Pitch 12.7 mm (0.50 in)

**siegling prolink**  
modular belts

## S14-0 FLT/NCL PMC

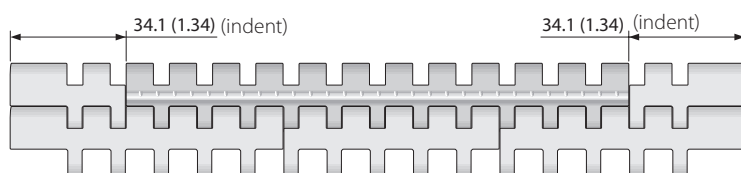
No cling surface to improve release of wet and sticky products and Flat top surface for dry products



### Basic data

Material	Color	Height (h)	
		25 mm 1 inch	76 mm 3 inch
PE	BL	●	●
PE	WT	●	●
POM	BL	●	●
POM	WT	●	●
PP	BL	●	●
PP	WT	●	●

Molded width: 152 mm (6.0 in)



Standard configuration S14-0 PMC

■ BL (Blue), □ 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.

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



MOVEMENT SYSTEMS

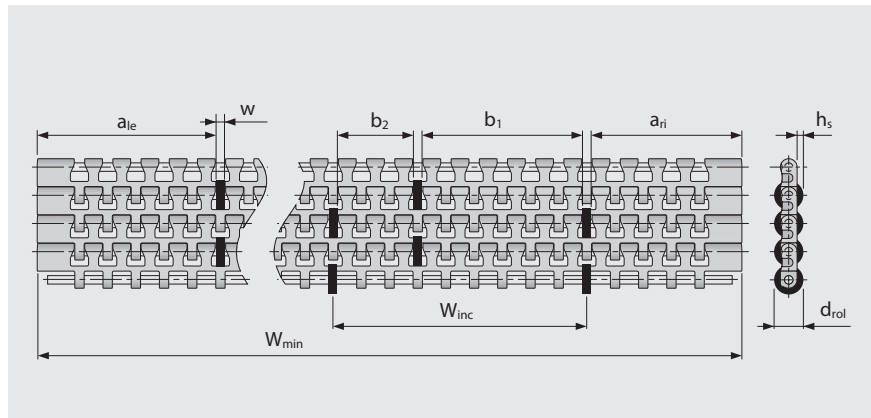
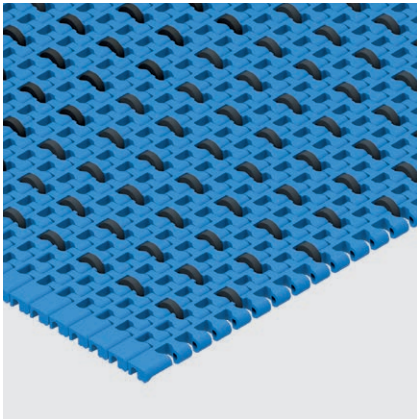


# SERIES 14 | PRR

Straight running belt | Pitch 12.7 mm (0.50 in)

## S14-25 PRR | Pin Retained Rollers

For applications where low back pressure accumulation or product separation is required



- For low back pressure wearstrips are to be positioned between the rollers
- For product separation the wearstrips are to be positioned below the rollers
- For all materials and surfaces
- Rollers available in POM BK

### Dimensions

<b>w</b>	3.9 mm (0.15 in)	Roller cut out width
<b>h<sub>s</sub></b>	2.25 mm (0.09 in)	Height of rollers above surface
<b>d<sub>rol</sub></b>	13.2 mm (0.52 in)	Roller diameter
<b>a</b>	see config.	Indent of roller
<b>b</b>	see config.	Roller distance
<b>s</b>	n × S <sub>min</sub>	Roller spacing in travel direction (standard: n = 1)
<b>S<sub>min</sub></b>	12.7 mm (0.5 in)	Min. roller spacing in travel direction
<b>W<sub>inc</sub></b>	see config.	Width increment
<b>W<sub>min</sub></b>	see config.	Min. belt width
<b>W<sub>B</sub></b>		Belt width
<b>n<sub>rol</sub></b>		Number of rollers across belt width

### Allowable belt pull

To determine admissible belt pull calculate effective belt width  $W_{B,ef}$  by

$$W_{B,ef} = W_B - (w \times n_{rol})$$

Example:

$$W_B = 432 \text{ mm (17.0 in); } w = 3.9 \text{ mm (0.15 in); } n_{rol} = 7$$

$$W_{B,ef} = 432 - (3.9 \times 7) = 404.7 \text{ mm}$$

$$W_{B,ef} = 17 - (0.15 \times 7) = 16 \text{ in}$$

Note: Sprocket must not be placed inline with rollers. Deviation in roller spacing possible, please get in contact to customer service. Coefficient of friction between belt and conveyed product in accumulation mode  $\mu_{acc} = 0.04$ , i.e. the accumulation pressure is approx. 4% of the weight of the backed up product.

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.



MOVEMENT SYSTEMS

# SERIES 14 | PRR

Straight running belt | Pitch 12.7 mm (0.50 in)

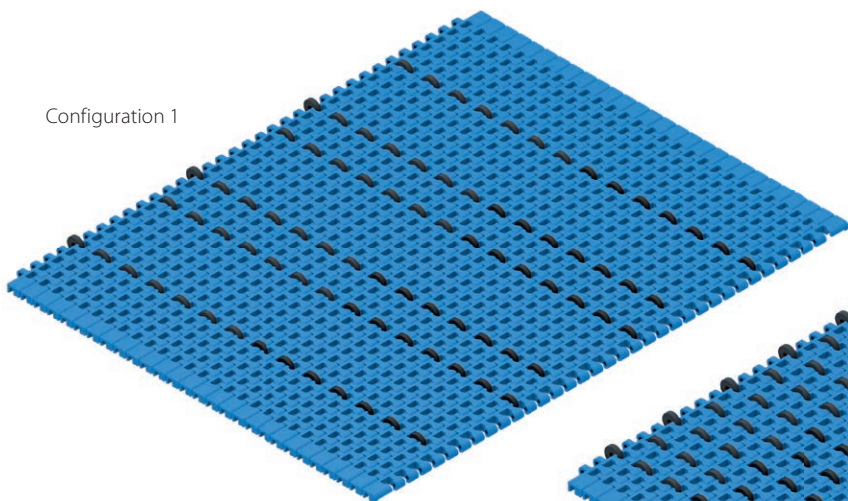
**siegling prolink**  
modular belts

## S14-25 PRR | Pin Retained Rollers

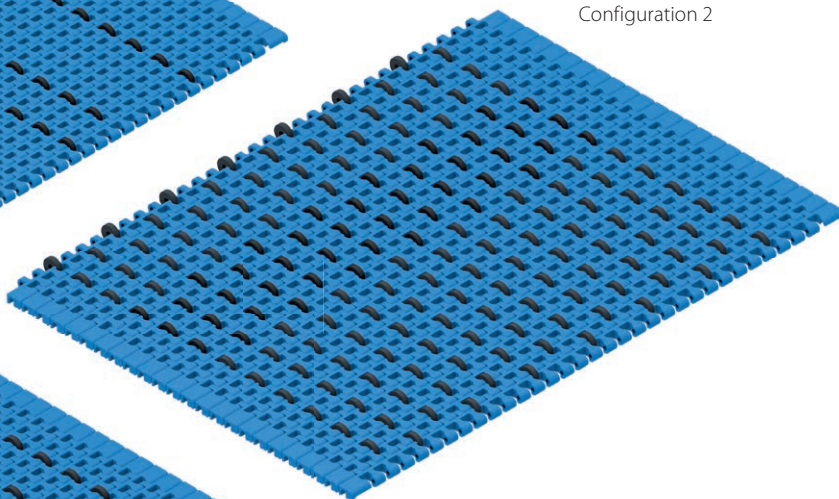
Standard configurations and main data

	Min. belt width – $W_{\min}$		Width increment – $W_{\text{inc}}$		Roller distance – b		Indent of roller – a				Roller/m <sup>3</sup> (e.g. 18 in belt width)
	[mm]	[in]	[mm]	[in]	[mm]	[in]	left		right		
Config. 1	228.6	9	114.3	4.5	76.2/38.1	3/1.5	67.9	2.67	80.6	3.17	600
Config. 2	127	5	50.8	2	25.4	1	42	1.65	55	2.17	1400
Config. 3	127	5	76.2	3	38.1	1.5	42	1.65	42	1.65	990

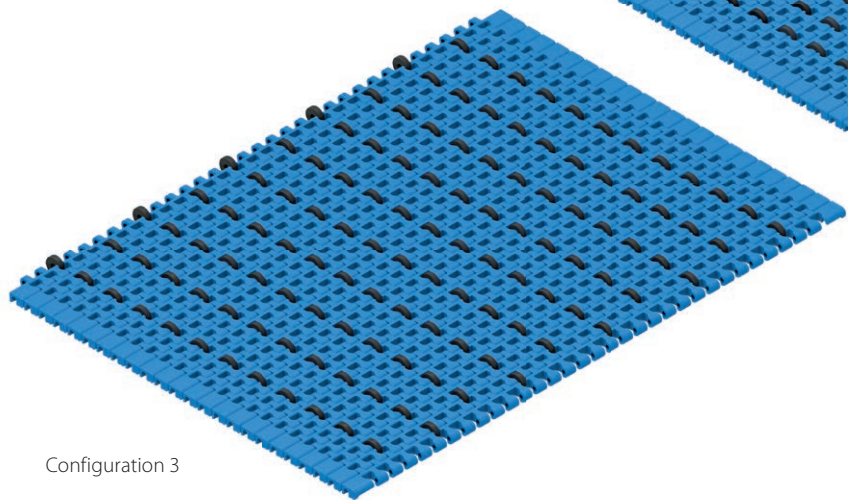
Configuration 1



Configuration 2



Configuration 3



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

⑤ 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-I</b> PE impact resistant
<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>PP-MD</b> PP metal detectable
<b>PP-SW</b> PP steam and hot water resistant
<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.