

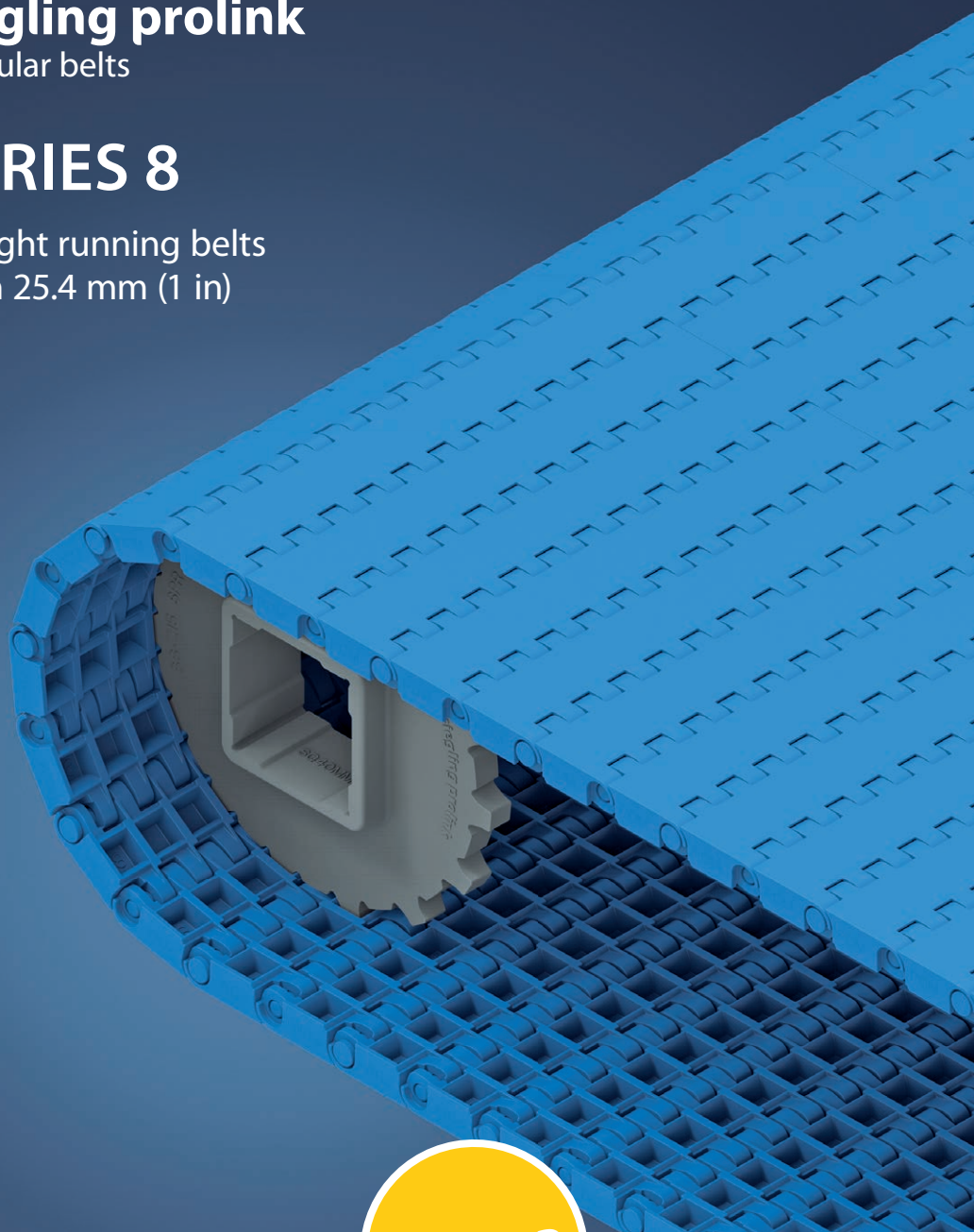
EXCERPT FROM PROLINK ENGINEERING MANUAL

01/24 (Ref-No. 888)

siegling prolink
modular belts

SERIES 8

Straight running belts
Pitch 25.4 mm (1 in)



PATENTED

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Ref. no. 888-2_1.2_S8

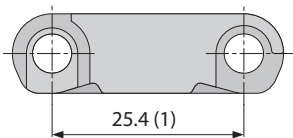
SERIES 8 | OVERVIEW

siegling prolink
modular belts

Straight running belts | Pitch 25.4 mm (1 in)

Belts for medium to heavy-duty applications

Side view scale 1:1



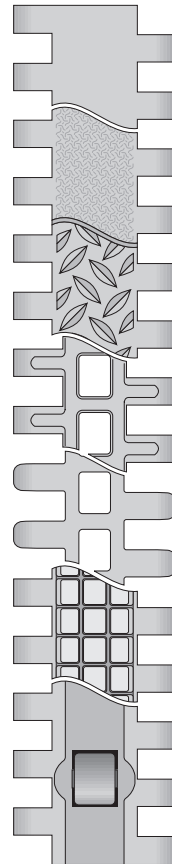
Design characteristics

- Closed hinge design provides high belt pull capacity
- Rigid module design makes belt suitable for long conveyors
- Exceptionally robust and durable module and sprocket design
- Closed solid edge design
- Flame retardant version available (PXX-HC – in line with DIN EN 13501-1)

Basic data

Pitch	25.4 mm (1 in)
Belt width min.	38.1 mm (1.5 in)
Width increments	12.7 mm (0.5 in)
Hinge pins	5 mm (0.2 in) made of plastic (PBT, PP, PA-HT). One-piece up to a belt width of 1200 mm (47 in).

Available surface pattern and opening area



S8.1-0 FLT

Closed, smooth surface

S8.1-0 SRS

Closed, slip-resistant surface

S8.1-0 NSK/S8.1-0 NSK2

Closed surface with non skid pattern

S8-25 RAT

Open (25 %) surface
with rounded contact surfaces

S8.1-30 FLT

Open (30 %) flat top surface
with rounded hinges

S8-0 FRT1

Closed surface with friction top

S8-0 RTP A90

Closed surface with roller top

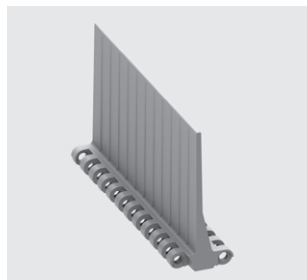
Sprockets

in different sizes with round or square bore, one part and split



Profiles

in different heights and designs for inclines



Side guards

in different heights for retention of bulk products



Hold Down Tabs

Hold Down Tabs for additional guiding



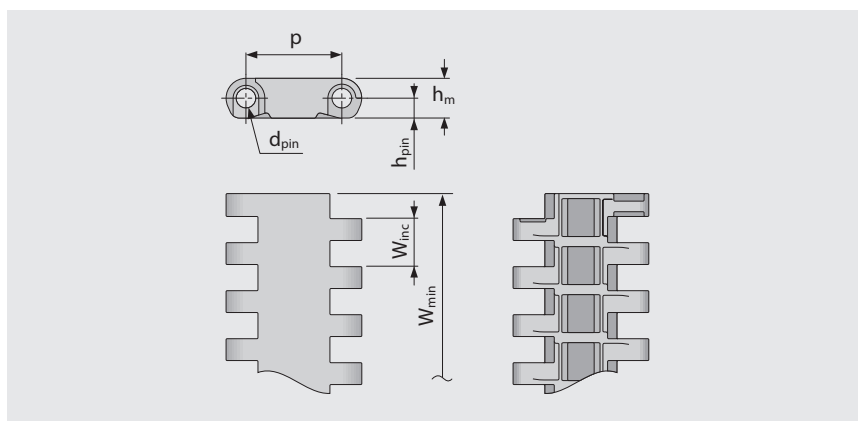
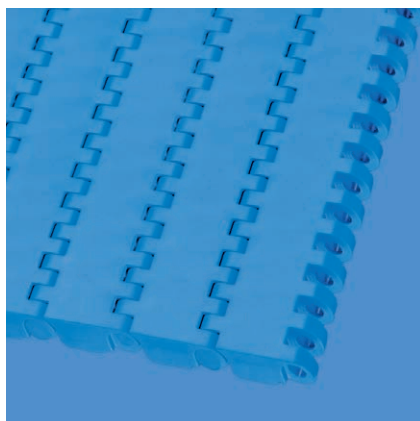
SERIES 8 | BELT TYPES

siebling prolink
modular belts

Straight running belt | Pitch 25.4 mm (1 in)

S8.1-0 FLT | 0 % Opening | Flat top

Closed, smooth surface | Flat top surface



Belt dimensions

	p	d _{pin}	h _m	h _{pin}	h _s	W _{min}	W _{inc}	W _{tol}	Minimum flex radii ¹⁾				
	Pitch	Pin Ø	Thickness	Pin position	Height	Width min.	Width Increment	Width tolerance [%]	r1 C _c x W _B	r2	r3	r4	r5
mm	25.4	5.0	10.5	5.3	0.0	38.1	12.7	±0.2	–	25.4	50.8	76.2	25.4
inch	1.0	0.2	0.41	0.21	0.0	1.5	0.5	±0.2	–	1.0	2.0	3.0	1.0

Available standard materials³⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates ²⁾	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA	EU
POM	BL	PBT	BL	40	2741	11.0	2.25	-0.31	-45/90	-49/194	●	●
POM	LG	PBT	UC	40	2741	11.0	2.25	-0.31	-45/90	-49/194	●	●
POM	WT	PBT	UC	40	2741	11.0	2.25	-0.31	-45/90	-49/194	●	●
POM-CR	AT	PBT	UC	40	2741	11.0	2.25	-0.31	-45/90	-49/194		
PP	WT	PP	WT	20	1370	7.1	1.45	0.0	5/100	41/212	●	●
PP	LG	PP	WT	20	1370	7.1	1.45	0.0	5/100	41/212	●	●
PP	BL	PP	BL	20	1370	7.1	1.45	0.0	5/100	41/212	●	●
PA-HT	BK	PA-HT	BK	30	2056	10.7	2.19	1.49	-30/155	-22/311	–	–

Mold to order belts

PXX-HC	BK	PBT	BL	20	1370	7.9	1.62	0.0	5/100	41/212	–	–
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Mold to width available in: 51 mm (2.0 in), 76 mm (3.0 in), 152 mm (6.0 in), 229 mm (9.0 in)

■ AT (Anthracite), ■ 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.

¹⁾ 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

²⁾ 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

³⁾ More materials and colors on request



MOVEMENT SYSTEMS

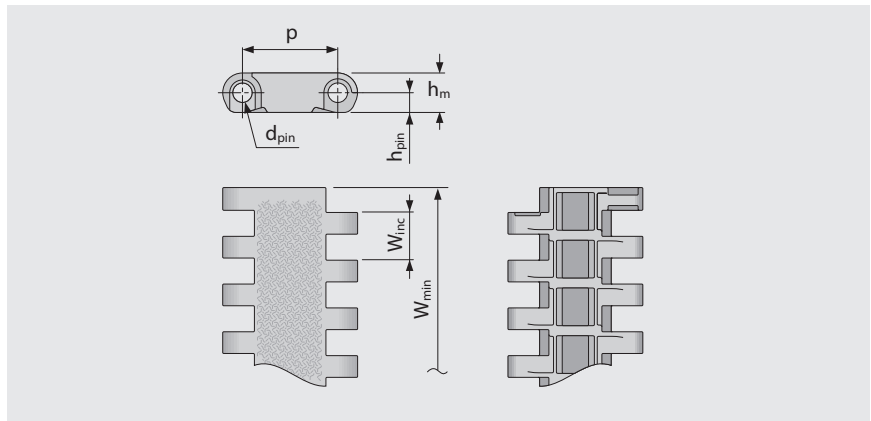
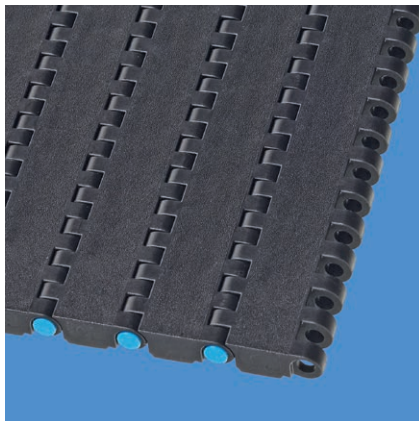
SERIES 8 | BELT TYPES

siebling prolink
modular belts

Straight running belt | Pitch 25.4 mm (1 in)

S8.1-0 SRS | 0% Opening | Slip-resistant surface

Closed surface | Slip-resistant surface, pleasant to walk and kneel on



Belt dimensions

	p	d _{pin}	h _m	h _{pin}	h _s	W _{min}	W _{inc}	W _{tol}	Minimum flex radii ¹⁾				
	Pitch	Pin Ø	Thickness	Pin position	Height	Width min.	Width Increment	Width tolerance [%]	r1 C _c x W _B	r2	r3	r4	r5
mm	25.4	5.0	10.5	5.3	0.0	38.1	12.7	±0.2	–	25.4	50.8	76.2	25.4
inch	1.0	0.2	0.41	0.21	0.0	1.5	0.5	±0.2	–	1.0	2.0	3.0	1.0

Available standard materials ³⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates ²⁾
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	Flame retardant
POM-CR	AT	PBT	BL	40	2741	11.0	2.25	-0.31	-45/90	-49/194	–
POM-HC	AT	PBT	BL	40	2741	11.0	2.25	-0.31	-45/90	-49/194	–
PXX-HC	BK	PBT	BL	20	1370	7.9	1.62	0.0	5/100	41/212	●

Mold to width available in: 51 mm (2.0 in), 76 mm (3.0 in), 152 mm (6.0 in), 229 mm (9.0 in)

■ AT (Anthracite), ■ BK (Black), ■ 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.

¹⁾ 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

²⁾ Complies with DIN EN 13501-1 Cfl-s1 (and DIN 4102 B1)

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³⁾ More materials and colors on request



MOVEMENT SYSTEMS

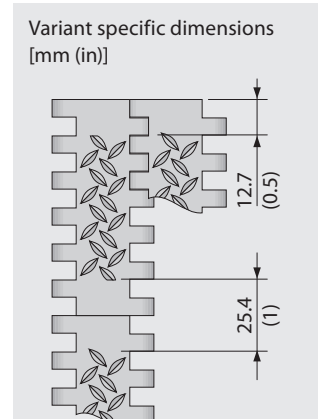
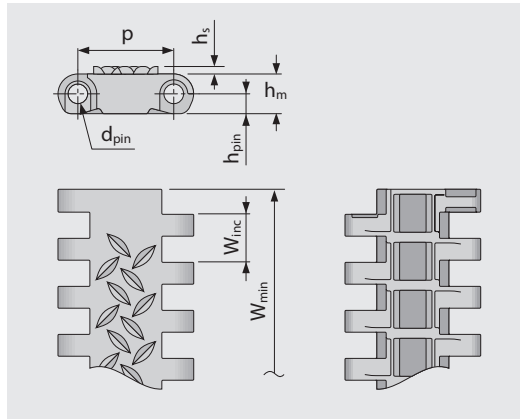
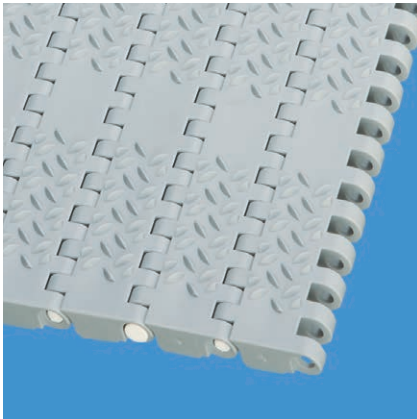
SERIES 8 | BELT TYPES

siebling prolink
modular belts

Straight running belt | Pitch 25.4 mm (1 in)

S8.1-0 NSK | 0 % Opening | Non skid

Closed surface | Non skid surface for increased safety when walking on belt | Flat top sections across the belt width for supporting the belt on the return



Belt dimensions

	p	d _{pin}	h _m	h _{pin}	h _s	W _{min}	W _{inc}	W _{tol}	Minimum flex radii ¹⁾				
	Pitch	Pin Ø	Thickness	Pin position	Height	Width min.	Width Increment	Width tolerance [%]	r1 C _c x W _B	r2	r3	r4	r5
mm	25.4	5.0	10.5	5.3	2.0	38.1	12.7	±0.2	–	25.4	50.8	76.2	25.4
inch	1.0	0.2	0.41	0.21	0.08	1.5	0.5	±0.2	–	1.0	2.0	3.0	1.0

Available standard materials ³⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates ²⁾	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA	EU
POM	BL	PBT	BL	40	2741	11.0	2.25	-0.31	-45/90	-49/194	●	●
PP	LG	PP	WT	20	1370	7.1	1.45	0.0	5/100	41/212	●	●
PXX-HC	BK	PBT	BL	20	1370	7.9	1.62	0.0	5/100	41/212	–	–

Mold to width available in: 229 mm (9.0 in)

■ BK (Black), ■ BL (Blue), ■ LG (Light gray), □ 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.

¹⁾ 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

²⁾ 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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³⁾ More materials and colors on request



MOVEMENT SYSTEMS

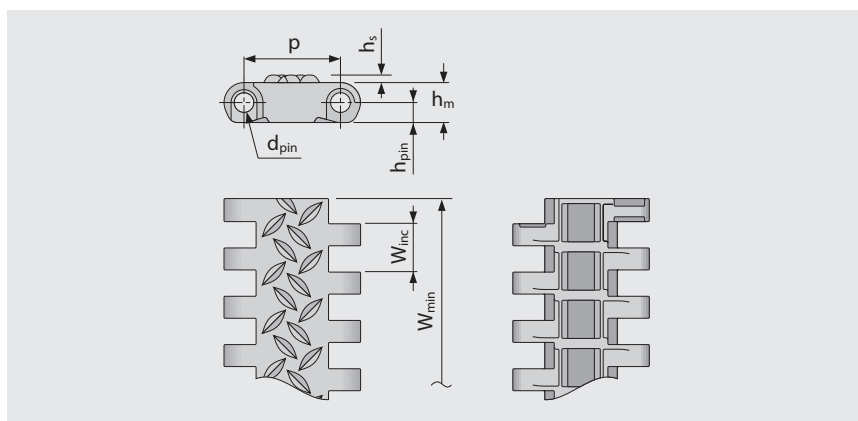
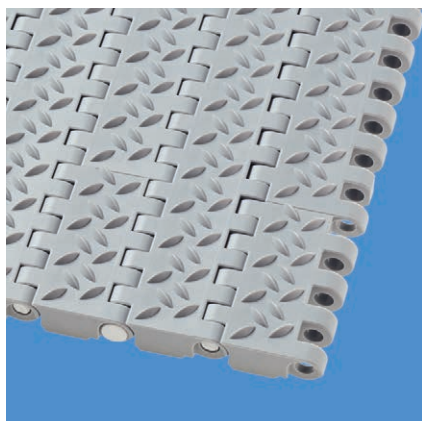
SERIES 8 | BELT TYPES

siebling prolink
modular belts

Straight running belt | Pitch 25.4 mm (1 in)

S8.1-0 NSK2 | 0% Opening | Non skid (Design 2)

Closed surface | Non skid surface for increased safety when walking on belt | Uninterrupted NSK-structure across the full belt width



Belt dimensions

	p	d _{pin}	h _m	h _{pin}	h _s	W _{min}	W _{inc}	W _{tol}	Minimum flex radii ¹⁾				
	Pitch	Pin Ø	Thickness	Pin position	Height	Width min.	Width Increment	Width tolerance [%]	r1 C _c x W _B	r2	r3	r4	r5
mm	25.4	5.0	10.5	5.3	2.0	38.1	12.7	±0.2	–	25.4	50.8	76.2	25.4
inch	1.0	0.2	0.41	0.21	0.08	1.5	0.5	±0.2	–	1.0	2.0	3.0	1.0

Available standard materials³⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates ²⁾	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA	EU
PP	LG	PP	WT	20	1370	7.1	1.45	0.0	5/100	41/212	●	●

Mold to width available in: 229 mm (9.0 in)

■ LG (Light gray), □ 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.

¹⁾ 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

²⁾ 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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MOVEMENT SYSTEMS

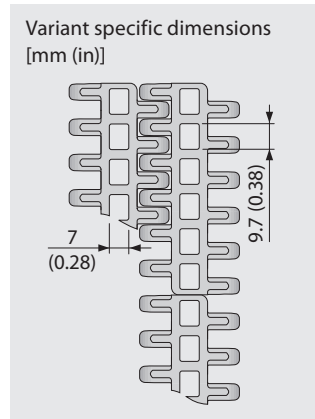
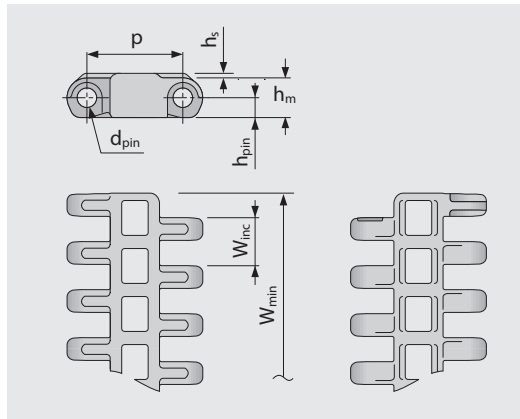
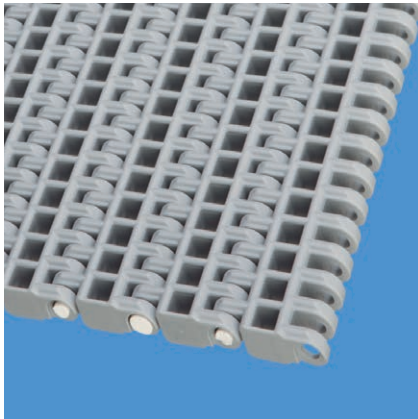
SERIES 8 | BELT TYPES

siebling prolink
modular belts

Straight running belt | Pitch 25.4 mm (1 in)

S8.1-25 RAT | 25 % Opening | Radius top

Open area (25 %) with rounded contact surfaces | 24% contact area (Largest opening: 9.7 x 7 mm/0.38 x 0.28 in) | Radius top belt surface ensures minimum product contact and good release characteristics



Belt dimensions

	p	d _{pin}	h _m	h _{pin}	h _s	W _{min}	W _{inc}	W _{tol}	Minimum flex radii ¹⁾				
	Pitch	Pin Ø	Thickness	Pin position	Height	Width min.	Width Increment	Width tolerance [%]	r1 C _c x W _B	r2	r3	r4	r5
mm	25.4	5.0	10.5	5.3	2.0	38.1	12.7	±0.2	–	25.4	50.8	76.2	25.4
inch	1.0	0.2	0.41	0.21	0.08	1.5	0.5	±0.2	–	1.0	2.0	3.0	1.0

Available standard materials ³⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates ²⁾	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA	EU
POM	BL	PBT	BL	40	2741	9.7	1.99	-0.61	-45/90	-49/194	●	●
PP	LG	PP	WT	20	1370	6.4	1.31	0.0	5/100	41/212	●	●
PP	BL	PP	BL	20	1370	6.4	1.31	0.0	5/100	41/212	●	●
PA-HT	BK	PA-HT	BK	30	2056	9.8	2.01	1.53	-30/155	-22/311	–	–

Mold to order belts												
PE		PE		15	1028	6.7	1.37	-0.31	-70/65	-94/149		

Mold to width available in: 76 mm (3.0 in), 152 mm (6.0 in), 229 mm (9.0 in)

■ BK (Black), ■ BL (Blue), ■ LG (Light gray), □ 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.

¹⁾ 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

²⁾ 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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³⁾ More materials and colors on request



MOVEMENT SYSTEMS

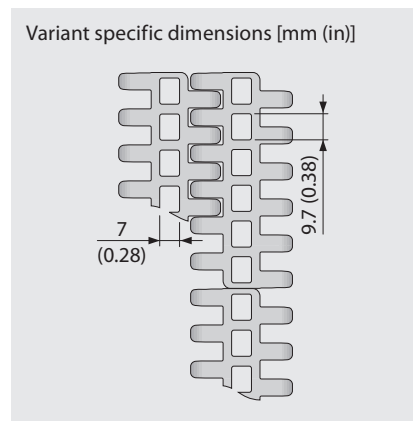
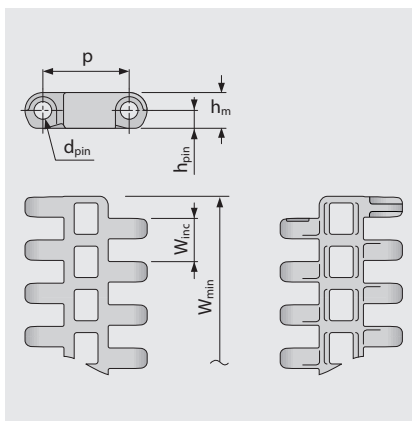
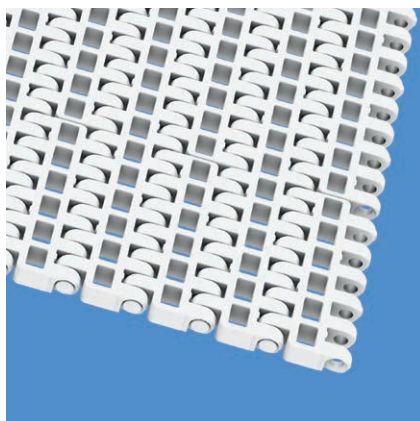
SERIES 8 | BELT TYPES

siebling prolink
modular belts

Straight running belt | Pitch 25.4 mm (1 in)

S8.1-30 FLT | 30% Opening | Flat top

Open version (30%) | Flat top surface | 53% contact area (Largest opening: 9.7 x 7 mm/0.38 x 0.28 in) | Smooth surface



Belt dimensions

	p	d _{pin}	h _m	h _{pin}	h _s	W _{min}	W _{inc}	W _{tol}	Minimum flex radii ¹⁾				
	Pitch	Pin Ø	Thickness	Pin position	Height	Width min.	Width Increment	Width tolerance [%]	r1 C _c x W _B	r2	r3	r4	r5
mm	25.4	5.0	10.5	5.3	0.0	76.2	12.7	±0.2	–	25.4	50.8	76.2	25.4
inch	1.0	0.2	0.41	0.21	0.0	3.0	0.5	±0.2	–	1.0	2.0	3.0	1.0

Available standard materials³⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates ²⁾	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA	EU
POM	BL	PBT	BL	40	2741	9.0	1.84	-0.58	-45/90	-49/194	●	●
PP	BL	PP	BL	20	1370	5.8	1.19	0.0	5/100	41/212	●	●
PP	WT	PP	WT	20	1370	5.8	1.19	0.0	5/100	41/212	●	●
Mold to order belts												
PE	BL	PE	UC	15	1028	6.1	1.25	-0.31	-70/65	-94/149	●	●

Mold to width available in: 76 mm (3.0 in), 191 mm (7.5 in)

■ 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.

¹⁾ 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

²⁾ 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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³⁾ More materials and colors on request



MOVEMENT SYSTEMS

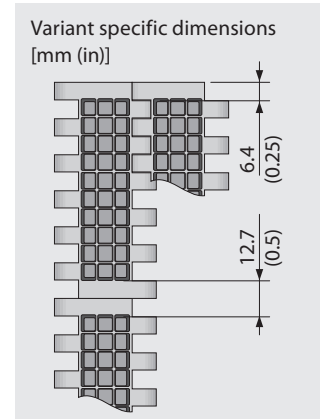
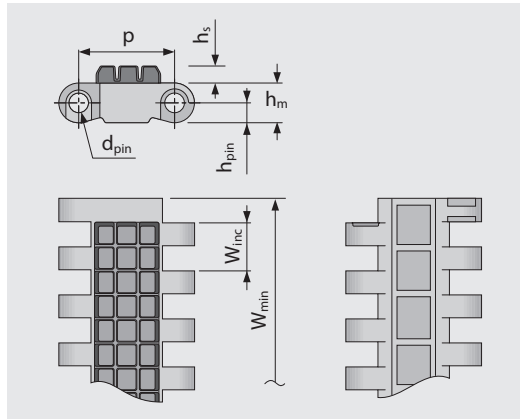
SERIES 8 | BELT TYPES

siebling prolink
modular belts

Straight running belt | Pitch 25.4 mm (1 in)

S8-0 FRT1 | 0% Opening | Friction top (Design 1)

Closed surface | Friction top with cube-shaped High Grip pads | Grooves inbetween to improve flexibility and to channel dirt away from the friction surface



Belt dimensions

	p	d _{pin}	h _m	h _{pin}	h _s	W _{min}	W _{inc}	W _{tol}	Minimum flex radii ¹⁾				
	Pitch	Pin Ø	Thickness	Pin position	Height	Width min.	Width Increment	Width tolerance [%]	r1 C _c x W _B	r2	r3	r4	r5
mm	25.4	5.0	10.5	5.3	4.5	76.2	76.2	±0.2	–	25.4	50.8	76.2	25.4
inch	1.0	0.2	0.41	0.21	0.18	3.0	3.0	±0.2	–	1.0	2.0	3.0	1.0

Available standard materials ³⁾

Belt		Pin		Rubber		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates ²⁾	
Material	Color	Material	Color	material	color	[N/mm]	[lb/ft]	[kg/m ²]	[lb/ft ²]	[%]	[°C]	[°F]	FDA	EU
POM	BL	PBT	BL	R6	BK	40	2741	17.7	3.63	-0.31	-45/60	-49/140	–	–
POM	AT	PBT	BL	R6	BK	40	2741	17.7	3.63	-0.31	-45/60	-49/140	–	–
PP	LG	PP	WT	R7	BK	20	1370	12.6	2.58	0.0	5/100	41/212	●	●
PP	BL	PP	BL	R4	BG	20	1370	12.6	2.58	0.0	5/100	41/212	●	●

Mold to order belts														
PP	BL	PP	BL	R7	BG	20	1370	12.6	2.58	0.0	5/100	41/212	●	●

Mold to width available in: 229 mm (9.0 in)

■ AT (Anthracite), ■ BG (Beige), ■ BK (Black), ■ BL (Blue), ■ LG (Light gray), □ 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.

¹⁾ 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

²⁾ 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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MOVEMENT SYSTEMS

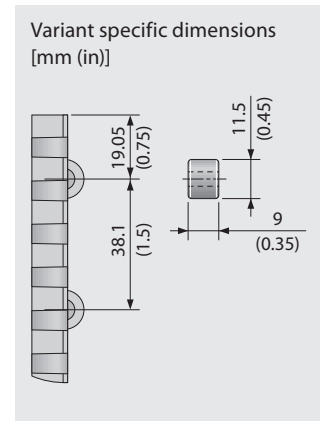
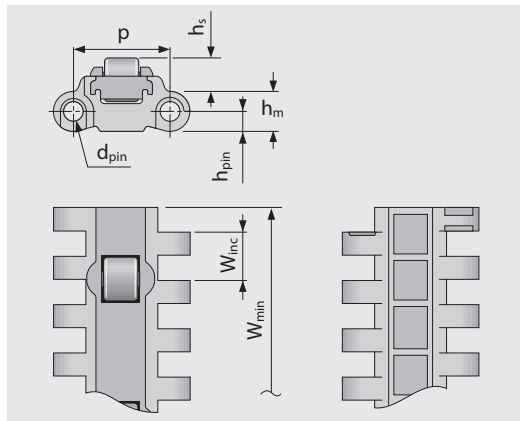
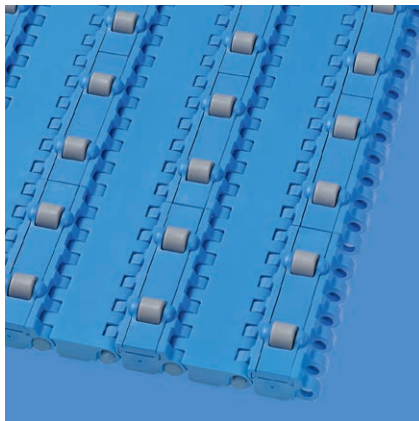
SERIES 8 | BELT TYPES

siegling prolink
modular belts

Straight running belt | Pitch 25.4 mm (1 in)

S8-0 RTP A90 | 0% Opening | Roller top · A90

Closed surface with roller top at 90° to the direction of travel | version for low-friction merging of products lateral

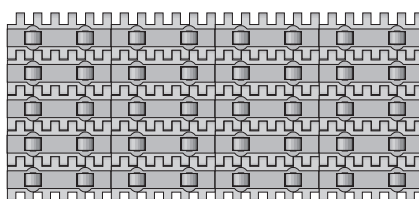


Belt dimensions

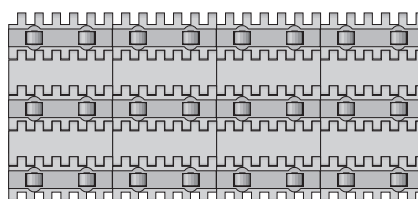
	p	d _{pin}	h _m	h _{pin}	h _s	W _{min}	W _{inc}	W _{tol}	Minimum flex radii ¹⁾				
	Pitch	Pin Ø	Thickness	Pin position	Height	Width min.	Width Increment	Width tolerance [%]	r1 C _c x W _B	r2	r3	r4	r5
mm	25.4	5.0	10.5	5.3	8.8	228.6	76.2	±0.2	–	25.4	50.8	76.2	25.4
inch	1.0	0.2	0.41	0.21	0.35	9.0	3.0	±0.2	–	1.0	2.0	3.0	1.0

Available standard materials³⁾

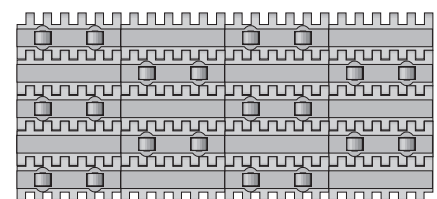
Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates ²⁾	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA	EU
POM	BL	PBT	BL	20	1370	14.3	2.93	-0.31	-45/90	-49/194	●	●



Standard configuration



Configuration 1



Configuration 2

■ 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.

¹⁾ 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

²⁾ 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

³⁾ More materials and colors on request



MOVEMENT SYSTEMS

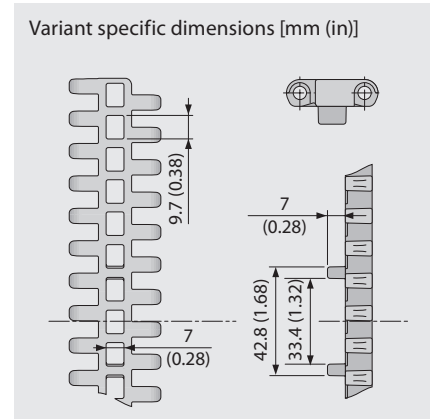
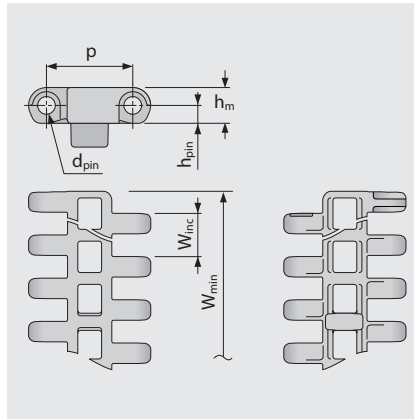
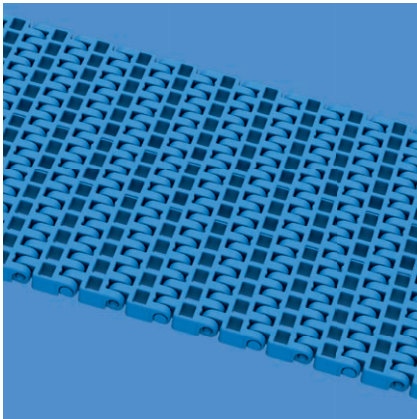
SERIES 8 | BELT TYPES

siebling prolink
modular belts

Straight running belt | Pitch 25.4 mm (1 in)

S8.1-30 FLT GT | 30 % Opening | Flat top · Guiding Tabs

Open version (30 %) | Flat top surface | 53 % contact area (Largest opening: 9.7 x 7 mm/0.38 x 0.28 in) | Smooth surface | with guiding tabs for tracking of chain on long hygiene critical conveyors



Belt dimensions

	p	d _{pin}	h _m	h _{pin}	h _s	W _{min}	W _{inc}	W _{tol}	Minimum flex radii ¹⁾				
	Pitch	Pin Ø	Thickness	Pin position	Height	Width min.	Width Increment	Width tolerance [%]	r1 C _c x W _B	r2	r3	r4	r5
mm	25.4	5.0	10.5	5.3	0.0	191.0	0.0	±0.2	–	25.4	50.8	76.2	25.4
inch	1.0	0.2	0.41	0.21	0.0	7.52	0.0	±0.2	–	1.0	2.0	3.0	1.0

Available standard materials³⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates ²⁾	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA	EU
POM	BL	PBT	BL	40	2741	9.1	1.86	-0.58	-45/90	-49/194	●	●
PP	BL	PP	BL	20	1370	5.9	1.21	0.0	5/100	41/212	●	●
PP	WT	PP	WT	20	1370	5.9	1.21	0.0	5/100	41/212	●	●

Mold to order belts

PE	BL	PE	UC	15	1028	6.1	1.25	-0.31	-70/65	-94/149	●	●
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Standard belt configuration (bottom side)
GT on every row

Mold to width available in: 191 mm (7.5 in)

■ 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.

¹⁾ 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

²⁾ 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

³⁾ More materials and colors on request



MOVEMENT SYSTEMS

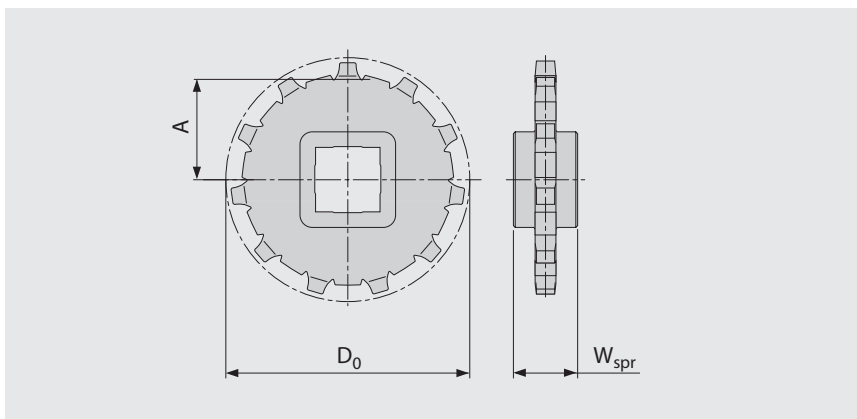
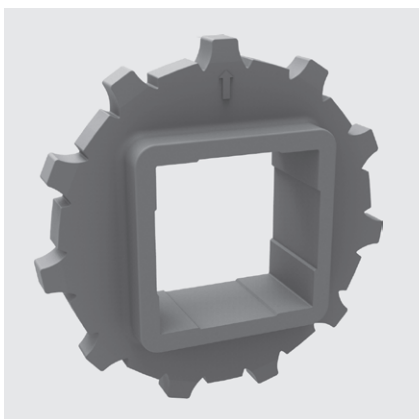
SERIES 8 | SPROCKETS

Straight running belt | Pitch 25.4 mm (1 in)

siegling prolink
modular belts

S8 SPR | Sprockets

Deep tooth engagement for heavy loads



Main dimensions

Sprocket size (Number of teeth)		Z11	Z12	Z15	Z18	Z19
W _{spr}	mm	25.0	25.0	25.0	25.0	25.0
	inch	0.98	0.98	0.98	0.98	0.98
D ₀	mm	90.2	99.5	122.7	148.5	155.7
	inch	3.55	3.92	4.83	5.85	6.13
A _{max}	mm	39.9	44.5	56.1	69.0	72.6
	inch	1.57	1.75	2.21	2.72	2.86
A _{min}	mm	38.3	43.0	54.9	68.0	71.6
	inch	1.51	1.69	2.16	2.68	2.82

Shaft bores (● = Round, ■ = Square)

30	mm	●	●	●	●	
40	mm	■	■	●/■		■
60	mm			■		■
80	mm					■
1	inch		●			●
1.25	inch		●			●
1.5	inch	●/■	■	■		■
2	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

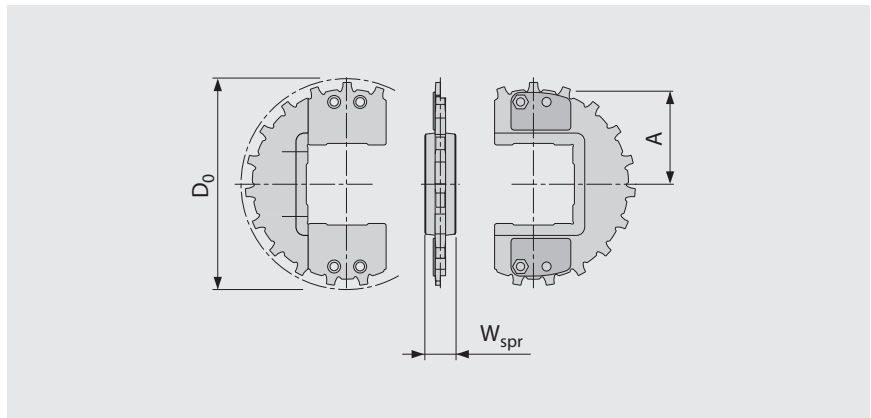
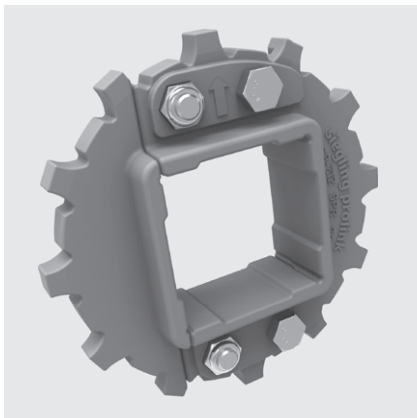
SERIES 8 | SPLIT SPROCKETS

siegling prolink
modular belts

Straight running belt | Pitch 25.4 mm (1 in)

S8 SPR-SP | Split Sprockets

Easy assembly without dismounting shaft | Deep tooth engagement for heavy loads



Main dimensions

Sprocket size (Number of teeth)		Z12	Z16	Z19	Z22
W_{spr}	mm	25.0	25.0	25.0	25.0
	inch	0.98	0.98	0.98	0.98
D_0	mm	99.5	132.2	155.7	181.2
	inch	3.92	5.20	6.13	7.13
A_{max}	mm	44.5	60.8	72.6	85.4
	inch	1.75	2.39	2.86	3.36
A_{min}	mm	43.0	59.7	71.6	84.5
	inch	1.69	2.35	2.82	3.33

Shaft bores (● = Round, ■ = Square)

40	mm	■	●/■	●/■	
60	mm		●/■	●/■	
90	mm				■
1	inch	●			
1.5	inch		●/■	●/■	
2.5	inch		●/■	●/■	

Material: PA, Color: LG

Mold to order: Material: PP, Color: WT

■ LG (Light gray), □ 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.

For detailed sprocket and shaft dimensions see appendix 6.3

Number of sprockets (sprocket spacing distance) see chapter 3.2



MOVEMENT SYSTEMS

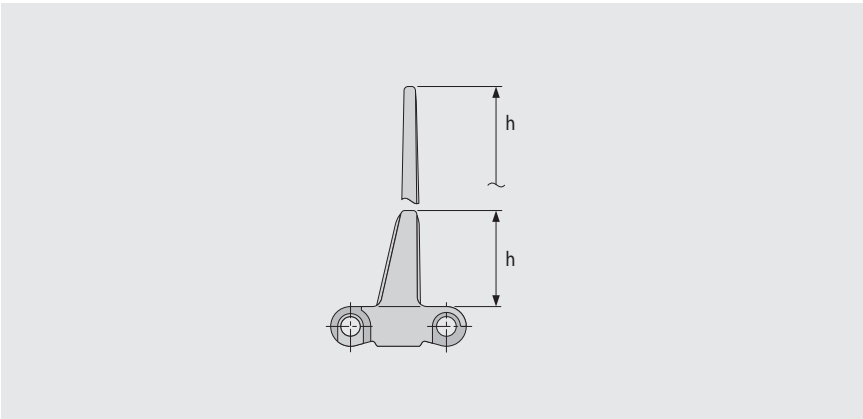
SERIES 8 | PROFILES

Straight running belt | Pitch 25.4 mm (1 in)

siegling prolink
modular belts

S8-0 FLT PMU

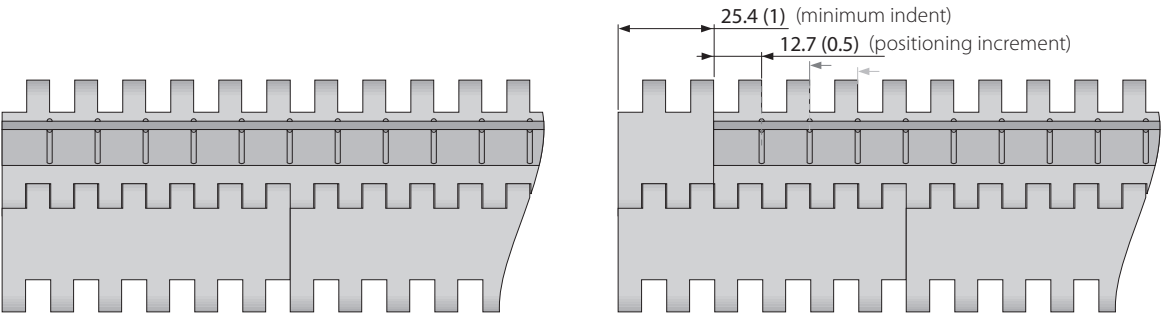
Profiles with reinforced base to handle high loads



Basic data

Material	Color	Height (h)	
		25.4 mm 1 inch	76 mm 3 inch
POM	BL	●	●
POM-CR	AT	●	●
PP	BL	●	●
PP	LG	●	●
PP	WT	●	●

Molded width: 152 mm (6.0 in)



Standard configuration S8-0 FLT PMU

Indent configuration S8-0 FLT PMU

■ AT (Anthracite), ■ BL (Blue), ■ LG (Light gray), □ 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.

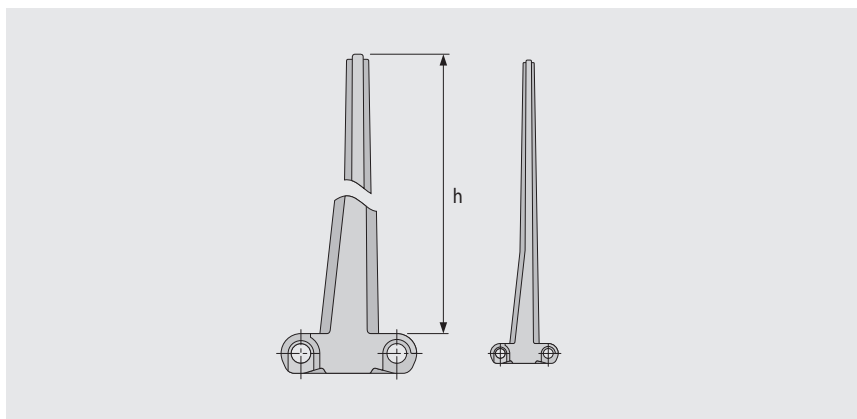
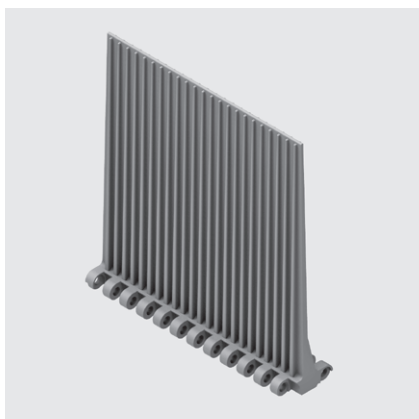
SERIES 8 | PROFILES

siebling prolink
modular belts

Straight running belt | Pitch 25.4 mm (1 in)

S8.1-0 NCL PMU

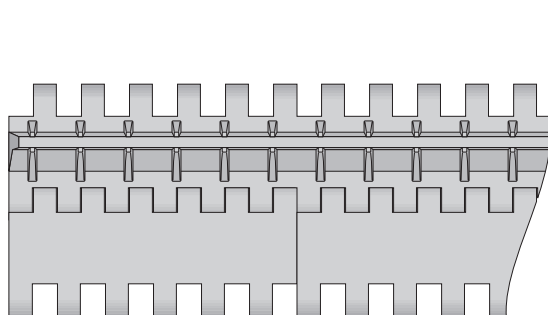
Highest available Profile for 1 in pitch belts. Extreme impact resistant with reinforced base and ribs in TPC1.



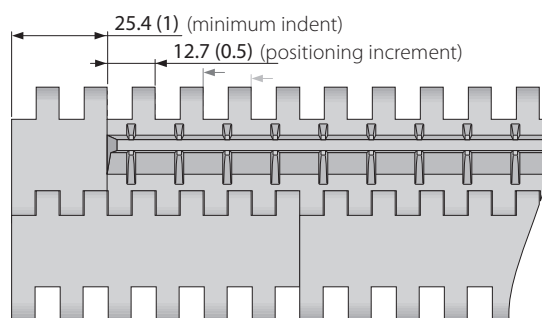
Basic data

Material	Color	Height (h)
		152.4 mm 6 inch
TPC1	LG	●

Molded width: 152 mm (6.0 in)



Standard configuration S8.1-0 NCL PMU



Indent configuration S8.1-0 NCL PMU

■ 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.

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



MOVEMENT SYSTEMS

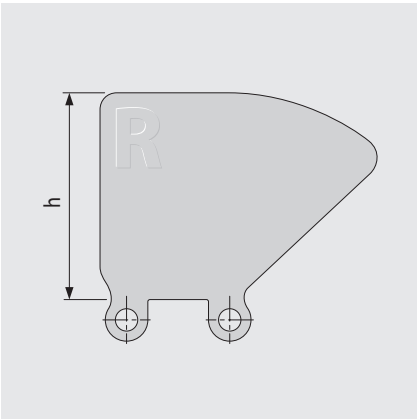
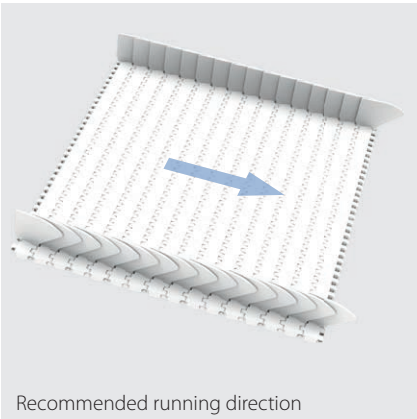
SERIES 8 | SIDE GUARDS

Straight running belt | Pitch 25.4 mm (1 in)

siebling prolink
modular belts

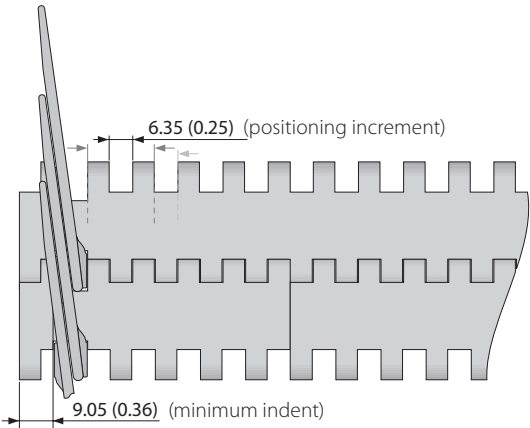
S8 SG | Side guards

For retention of bulk products (for S8-0 FLT and S8.1-30 FLT only)



Basic data

Material	Color	Height (h)			
		25 mm 1 inch	50 mm 2 inch	75 mm 3 inch	100 mm 4 inch
PE	LB	●	●	●	●
PE	WT	●	●	●	●
PE-MD	BL	●	●		
PP	LB	●	●	●	●
PP	WT	●	●	●	●



■ BL (Blue), ■ LB (Light 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.

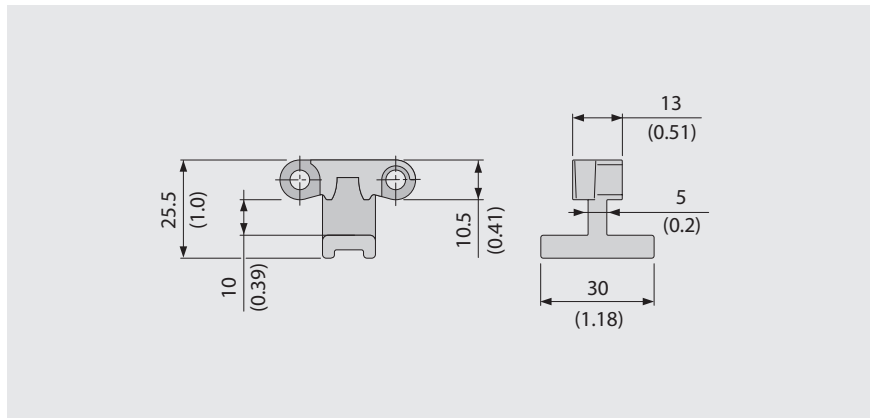
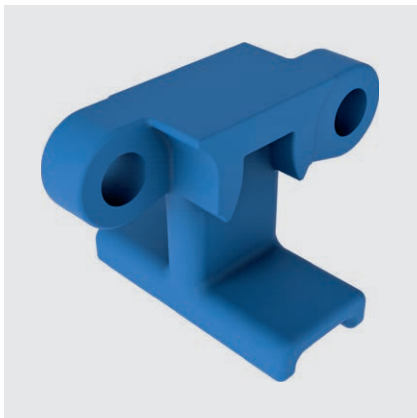
SERIES 8 | HOLD DOWN TABS

siegling prolink
modular belts

Straight running belt | Pitch 25.4 mm (1 in)

S8 HDT | Hold Down Tabs

Used on wider belts to prevent lift an swan neck conveyors | To improve strength, stability and cleanability they are moulded on a narrow module

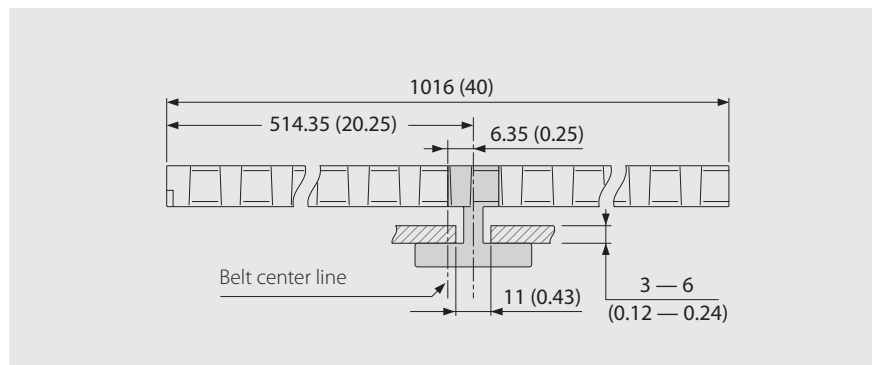


Basic data

Material	Color
POM	BL

Using Hold Down Tabs results in constraints with regards to sprocket and shaft size to ensure sufficient clearance to the shaft (see also chapter 3.3 hold down tabs).

Example



Sprocket options using HDT

Sprocket size (Number of teeth)	Maximum bore round		Maximum bore square	
	[mm]	[inch]	[mm]	[inch]
Z11	40	1.5	30	1.25
Z12	45	1.75	35	1.5
Z15	70	2.75	55	2.0
Z18	95	3.5	70	2.75
Z19	100	3.75	75	3.0

■ 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.

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



MOVEMENT SYSTEMS

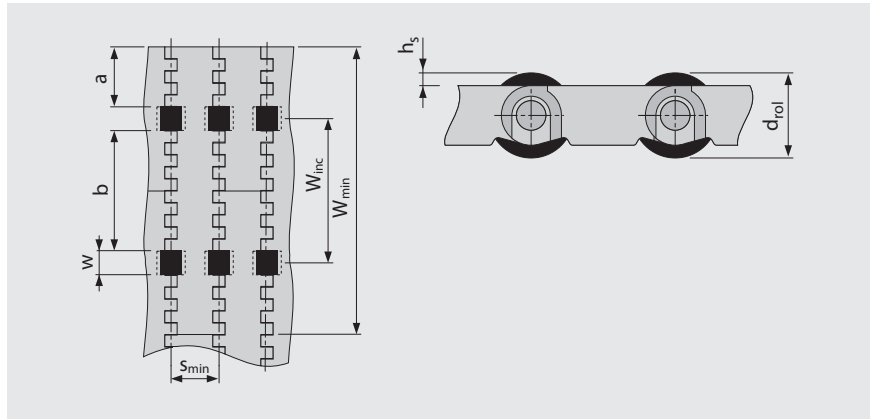
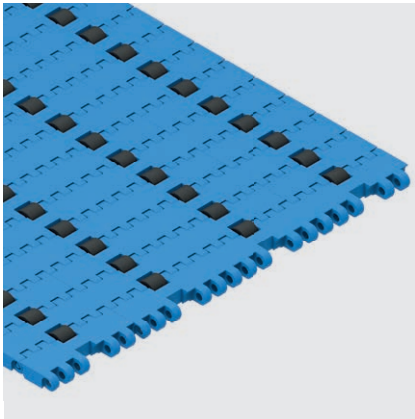
SERIES 8 | PRR

Straight running belt | Pitch 25.4 mm (1 in)

siebling prolink
modular belts

S8.1 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 and TPE LG (R10)

Dimensions

w	12.7 mm (0.5 in)	Roller cut out width (roller width 12 mm (0.47 in))
h _s	2.25 mm (0.09 in)	Height of rollers above surface
d _{rol}	15 mm (0.59 in)	Roller diameter
a	31.75 mm (1.25 in)	Minimum indent
b	63.5 mm (2.5 in)	Standard distance between rollers across belt width
s	n × s _{min}	Roller spacing in travel direction (standard: n = 1)
s _{min}	25.4 mm (1.0 in)	Min. roller spacing in travel direction
W _{inc}	76.2 mm (3.0 in)	Width increment
W _{min}	152.4 mm (6.0 in)	Min. belt width
W _B		Belt width
n _{rol}		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:

$$W_B = 228.6 \text{ mm (9.0 in); } w = 12.7 \text{ mm (0.5 in); } n_{rol} = 3$$

$$W_{B,ef} = 228.6 - (12.7 \times 3) = 190.5 \text{ mm}$$

$$W_{B,ef} = 9.0 - (0.5 \times 3) = 7.5 \text{ in}$$

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

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

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

⑤ Style
1.7 1.7 collapse factor
2.2 2.2 collapse factor
2.2 G 2.2 collapse factor, guided
A90 Angle 90° to conveying direction
BT Bearing tab
DR Double row sprocket
F1, F2, F3 ... Collapse factor modules
G Guided
GT Guiding tabs
HD Hold Down
Ixx xx = indent in mm
RG Reversed guided
SG Side guard
SP Split sprocket
ST Strong

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

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