

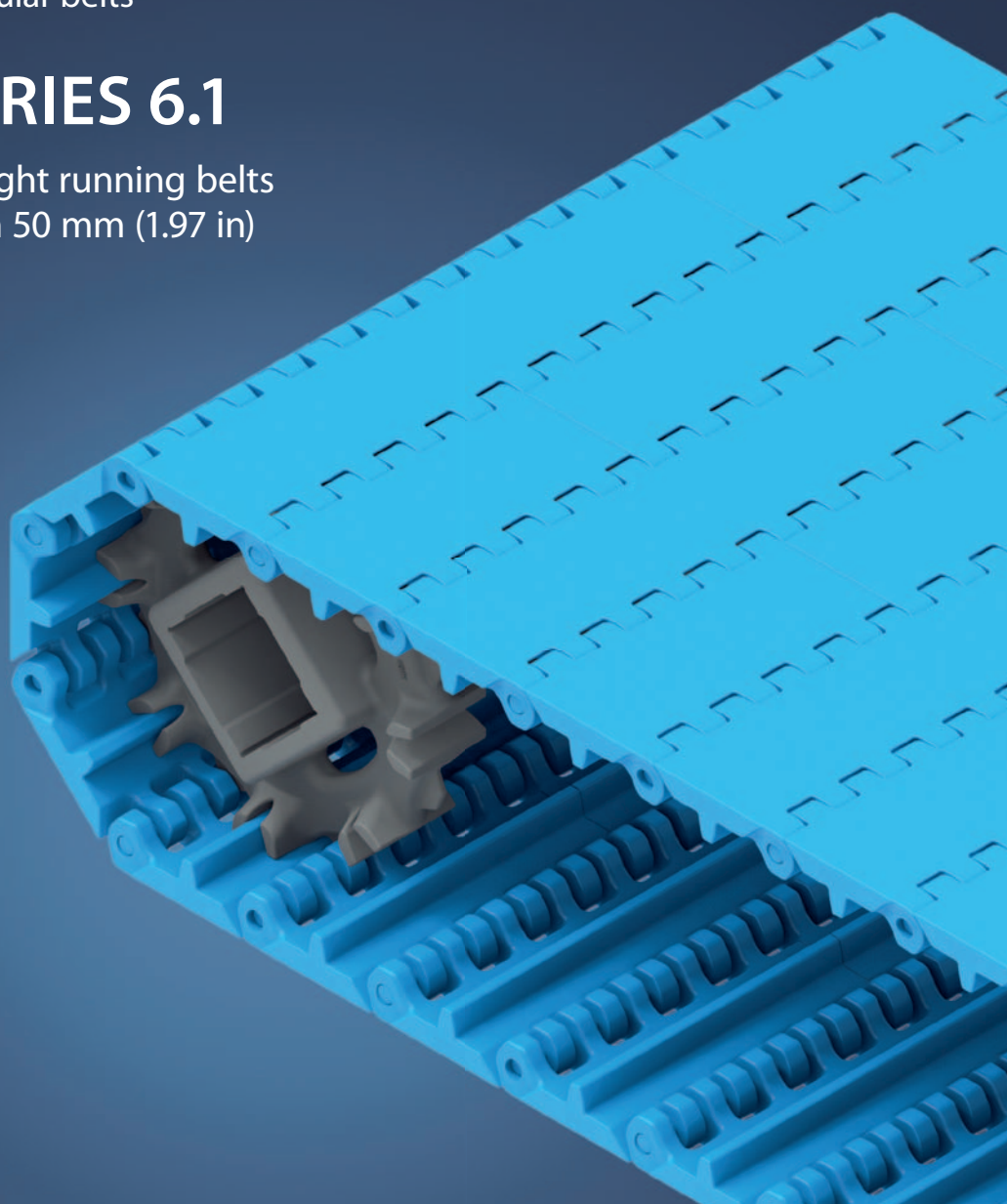
EXCERPT FROM PROLINK ENGINEERING MANUAL

11/22 (Ref-No. 888)

siegling prolink
modular belts

SERIES 6.1

Straight running belts
Pitch 50 mm (1.97 in)



Forbo Siegling GmbH
Lilienthalstraße 6/8, D-30179 Hannover
Phone +49 511 6704 0
www.forbo-siegling.com, siegling@forbo.com

Ref. no. 888-2_1.2_S6.1

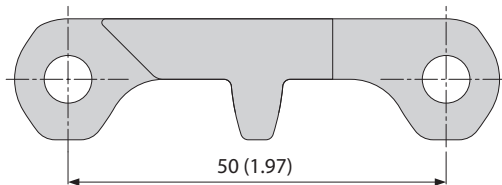
SERIES 6.1 | OVERVIEW

siegling prolink
modular belts

Straight running belts | Pitch 50 mm (1.97 in)

Belts for medium to heavy-duty, hygiene-critical applications

Side view scale 1:1



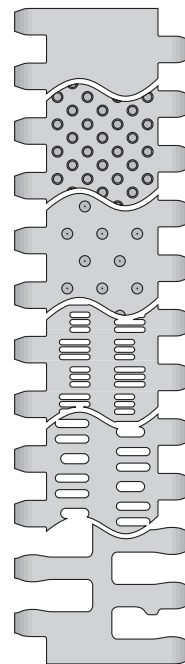
Design characteristics

- Wide modules and eyelets for less soiling
- Hinges that open wide, wide channels on the underside and a continuous drive bar for an easy-to-clean design
- Robust design and smooth, cut-resistant surface (depending on material)
- Special sprocket design with enhanced tooth engagement for excellent force transmission

Basic data

Pitch	50 mm (1.97 in)
Belt width min.	40 mm (1.57 in)
Width increments	20 mm (0.8 in)
Hinge pins	6 mm (0.24 in), made of plastic (PBT, PP, PE, POM-MD, PP-MD). One-piece up to a belt width of 1200 mm (47 in).

Available surface pattern and opening area



S6.1-0 FLT

Closed, smooth surface

S6.1-0 NTP

Closed surface and round studs

S6.1-0 CTP

Closed surface and pointed studs

S6.1-21 FLT

Open (21 %), smooth surface

S6.1-23 FLT

Open (23 %), smooth surface

S6.1-36 FLT

Open (36 %), smooth surface



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

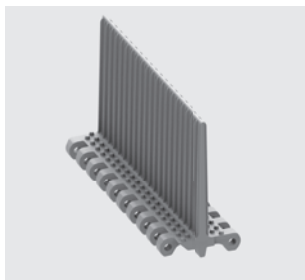
Sprockets

in different sizes with round or square sprocket bore



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



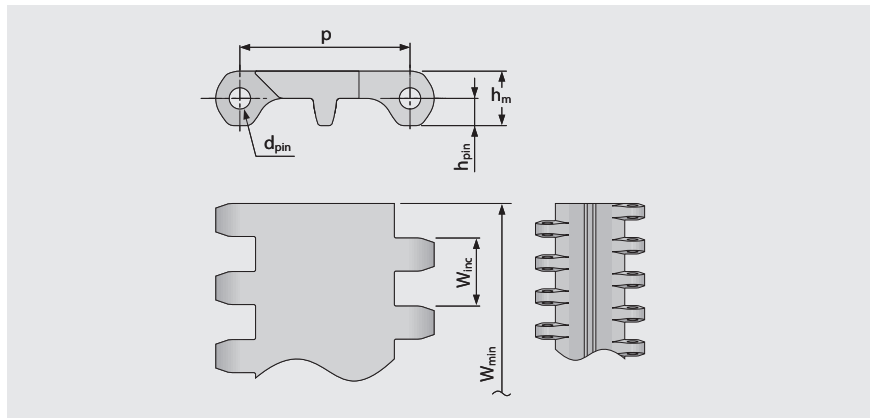
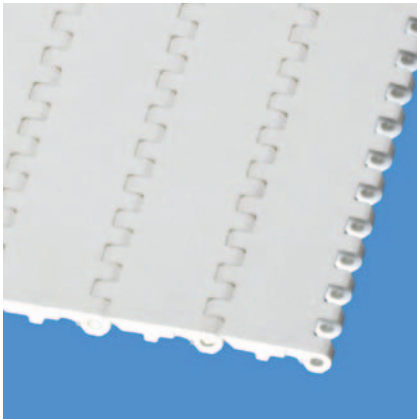
SERIES 6.1 | BELT TYPES

siegling prolink
modular belts

Straight running belt | Pitch 50 mm (1.97 in)

S6.1-0 FLT | 0 % Opening | Flat top

Closed, smooth surface | Flat top surface | Easy-to-clean



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 [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1 C _c x W _B	r2	r3	r4	r5
mm	50.0	6.0	16.0	8.0	0.0	40.0	20.0	±0.2	–	50.0	100.0	150.0	50.0
inch	1.97	0.24	0.63	0.31	0.0	1.57	0.79	±0.2	–	1.97	3.94	5.91	1.97

Available standard materials⁴⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
PE	WT/LB	PE	WT/LB	13	891	9.4	1.93	-0.65	-70/65	-94/149	●	●
POM	WT/LB	PBT	UC/LB	30	2056	13.4	2.74	-0.65	-45/90	-49/194	●	●
POM-CR	WT/LB	PBT	UC/LB	30	2056	13.4	2.74	-0.65	-45/90	-49/194	●	●
PP	WT/LB	PP	WT/LB	18	1233	8.3	1.7	-0.0	5/100	41/212	●	●
PE-MD	BL	POM-MD	BL	13	891	9.8	2.01	-0.65	-70/65	-94/149	●	●
POM-MD	BL	POM-MD	BL	30	2056	13.7	2.81	-0.65	-45/90	-49/194	●	●
PP-MD	BL	PP-MD	BL	18	1233	9.0	1.84	-0.0	5/100	41/212	●	●

Mold to order belts

PA*	BL	PBT	UC	30	2056	12.9	2.64	-0.0	-40/120	-40/248	●	●
TPC1	LB	PBT	UC	13	891	11.6	2.38	-0.65	-25/80	-13/176	●	●

Mold to width available in: 100 mm (3.94 in), 140 mm (5.51 in), 200 mm (7.87 in), 220 mm (8.66 in), 400 mm (15.75 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), ■ LB (Light 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

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

⁴⁾ More materials and colors on request



MOVEMENT SYSTEMS

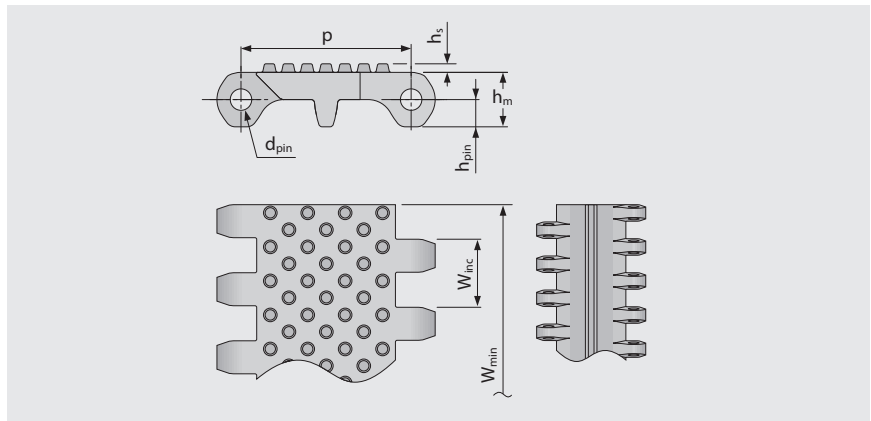
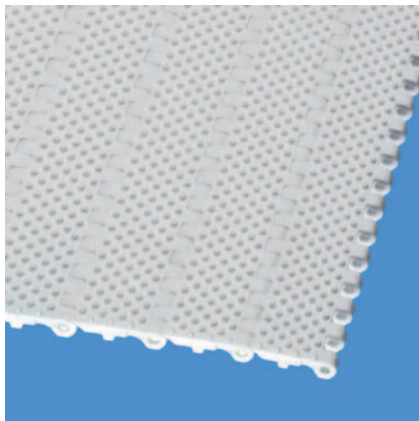
SERIES 6.1 | BELT TYPES

siebling prolink
modular belts

Straight running belt | Pitch 50 mm (1.97 in)

S6.1-0 NTP | 0% Opening | Nub top (round studs)

Closed surface and round studs | 6% contact area | Nub top surface for good release of wet and sticky products | Easy-to-clean



Belt dimensions

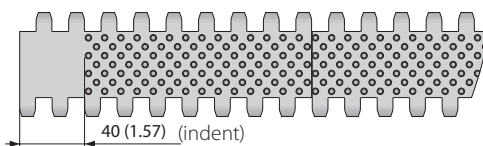
	p	d _{pin}	h _m	h _{pin}	h _s	W _{min}	W _{inc}	W _{tol}	Minimum flex radii ¹⁾				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1 C _c x W _B	r2	r3	r4	r5
mm	50.0	6.0	16.0	8.0	2.5	40.0	20.0	±0.2	–	50.0	100.0	150.0	50.0
inch	1.97	0.24	0.63	0.31	0.1	1.57	0.79	±0.2	–	1.97	3.94	5.91	1.97

Available standard materials⁴⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
PE	WT	PE	WT	13	891	9.6	1.97	-0.65	-70/65	-94/149	●	●
PE	LB	PE	LB	13	891	9.6	1.97	-0.65	-70/65	-94/149	●	●
POM	LB	PBT	LB	30	2056	13.7	2.81	-0.65	-45/90	-49/194	●	●

Mold to order belts

PP		PP		18	1233	8.4	1.72	0.0	5/100	41/212	–	–
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Also available with
molded indent
40 mm (1.57 in)

Mold to width available in: 100 mm (3.94 in),
200 mm (7.87 in), 400 mm (15.75 in)

■ 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.

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

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

⁴⁾ More materials and colors on request



MOVEMENT SYSTEMS

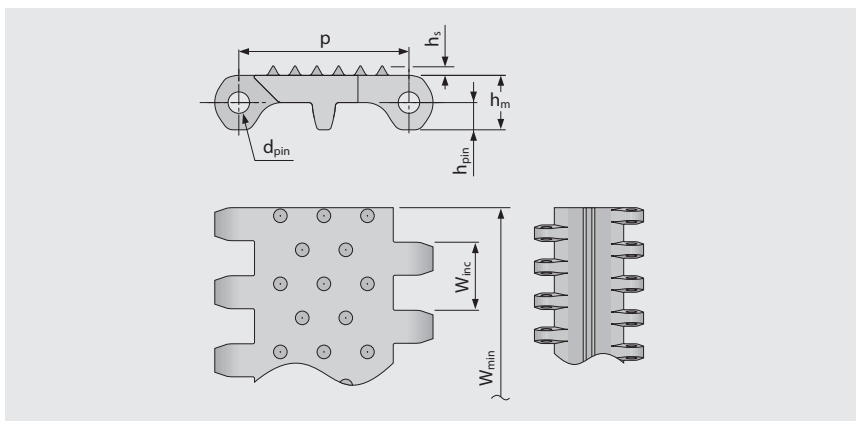
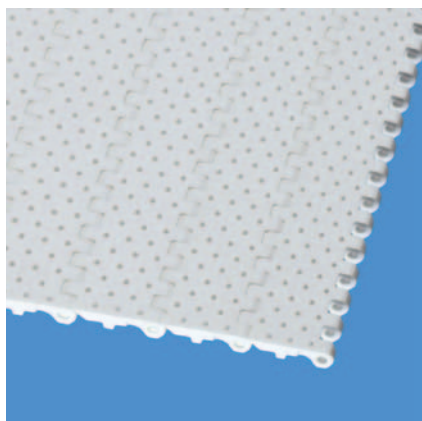
SERIES 6.1 | BELT TYPES

siebling prolink
modular belts

Straight running belt | Pitch 50 mm (1.97 in)

S6.1-0 CTP | 0% Opening | Cone top (pointed studs)

Closed surface and pointed studs | Cone top surface pattern for superior grip | Easy-to-clean



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 [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1 C _c x W _B	r2	r3	r4	r5
mm	50.0	6.0	16.0	8.0	2.8	40.0	20.0	±0.2	–	50.0	100.0	150.0	50.0
inch	1.97	0.24	0.63	0.31	0.11	1.57	0.79	±0.2	–	1.97	3.94	5.91	1.97

Available standard materials⁴⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
POM	WT	PBT	UC	30	2056	13.5	2.77	-0.65	-45/90	-49/194	●	●
Mold to order belts												
PE		PE		13	891	9.5	1.95	-0.65	-70/65	-94/149	–	–

Mold to width available in: 400 mm (15.75 in)

□ 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

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

⁴⁾ More materials and colors on request



MOVEMENT SYSTEMS

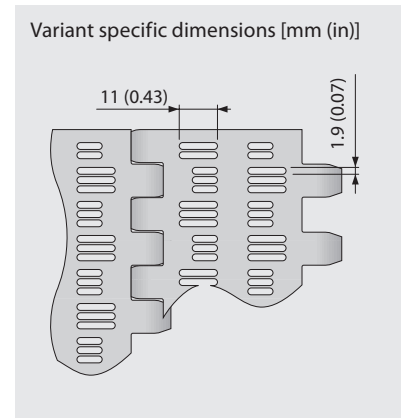
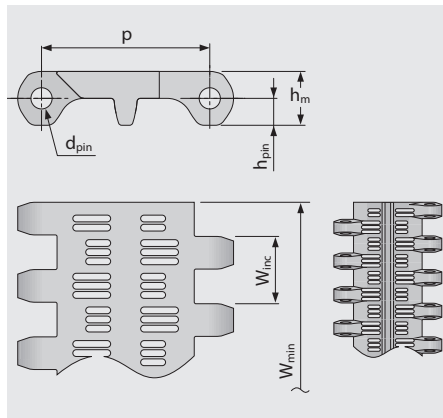
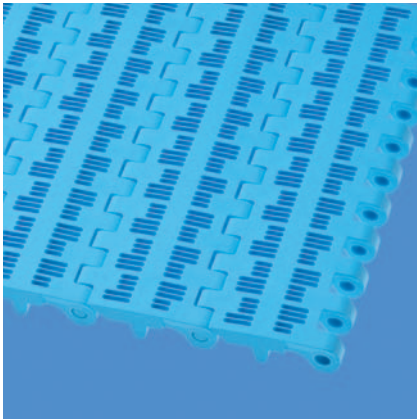
SERIES 6.1 | BELT TYPES

siebling prolink
modular belts

Straight running belt | Pitch 50 mm (1.97 in)

S6.1-21 FLT | 21 % Opening | Flat top

Open area (21 %) for excellent air circulation and drainage | 72% contact area (Largest opening: 1.9 x 11 mm/0.07 x 0.43 in) |
Smooth surface | Easy-to-clean



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 [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1 C _c x W _B	r2	r3	r4	r5
mm	50.0	6.0	16.0	8.0	0.0	40.0	20.0	±0.2	–	50.0	100.0	150.0	50.0
inch	1.97	0.24	0.63	0.31	0.0	1.57	0.79	±0.2	–	1.97	3.94	5.91	1.97

Available standard materials⁴⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
PE	WT	PE	WT	13	891	7.8	1.6	-0.5	-70/65	-94/149	●	●
PE	LB	PE	LB	13	891	7.8	1.6	-0.5	-70/65	-94/149	●	●
POM	WT	PBT	UC	30	2056	10.8	2.21	-0.5	-45/90	-49/194	●	●
POM	LB	PBT	LB	30	2056	10.8	2.21	-0.5	-45/90	-49/194	●	●
PP	WT	PP	WT	18	1233	6.7	1.37	0.0	5/100	41/212	●	●
PP	LB	PP	LB	18	1233	6.7	1.37	0.0	5/100	41/212	●	●

Mold to width available in: 100 mm (3.94 in), 200 mm (7.87 in)

■ LB (Light 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

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⁴⁾ More materials and colors on request



MOVEMENT SYSTEMS

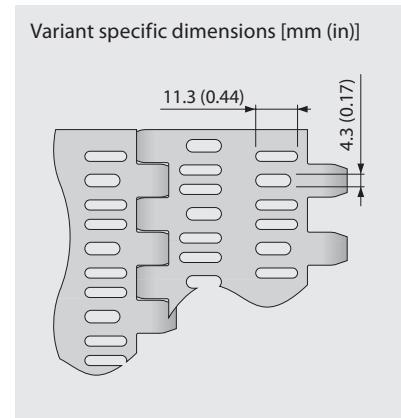
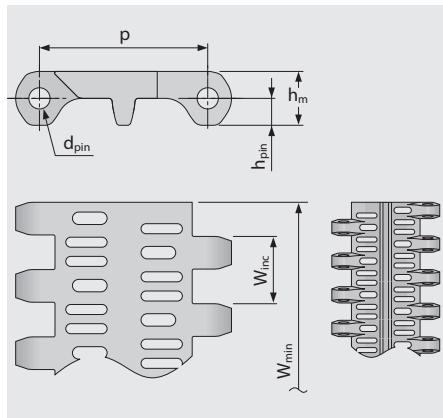
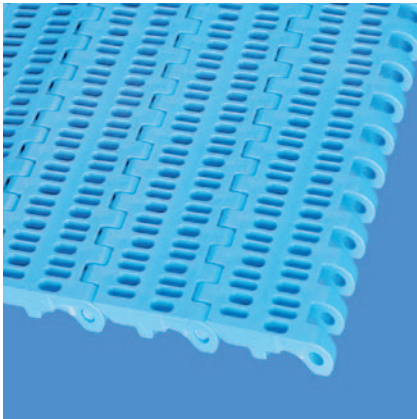
SERIES 6.1 | BELT TYPES

siegling prolink
modular belts

Straight running belt | Pitch 50 mm (1.97 in)

S6.1-23 FLT | 23 % Opening | Flat top

Open area (23 %) for excellent air circulation and drainage | 71 % contact area (Largest opening: 4.3 x 9.3 mm/0.17 x 0.37 in)
Smooth surface | Easy-to-clean



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 [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1 C _c x W _B	r2	r3	r4	r5
mm	50.0	6.0	16.0	8.0	0.0	40.0	20.0	±0.2	–	50.0	100.0	150.0	50.0
inch	1.97	0.24	0.63	0.31	0.0	1.57	0.79	±0.2	–	1.97	3.94	5.91	1.97

Available standard materials⁴⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
PE	WT	PE	WT	13	891	8.2	1.68	-0.5	-70/65	-94/149	●	●
PE	LB	PE	LB	13	891	8.2	1.68	-0.5	-70/65	-94/149	●	●
POM	WT	PBT	UC	30	2056	11.3	2.31	-0.5	-45/90	-49/194	●	●
POM	LB	PBT	LB	30	2056	11.3	2.31	-0.5	-45/90	-49/194	●	●
PP	WT	PP	WT	18	1233	7.0	1.43	0.0	5/100	41/212	●	●
PP	LB	PP	LB	18	1233	7.0	1.43	0.0	5/100	41/212	●	●

Mold to order belts

PE-MD	BL	POM-MD	BL	13	891	8.9	1.82	-0.5	-70/65	-94/149	●	●
POM-CR		PBT		30	2056	11.3	2.31	-0.5	-45/90	-49/194	–	–
PE-I	UC	PE	WT	13	891	8.2	1.68	-0.5	-70/65	-94/149	●	●

Mold to width available in: 100 mm (3.94 in), 200 mm (7.87 in), 400 mm (15.75 in)

■ BL (Blue), ■ LB (Light 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

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⁴⁾ More materials and colors on request



MOVEMENT SYSTEMS

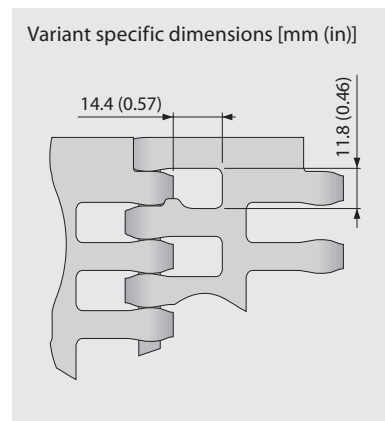
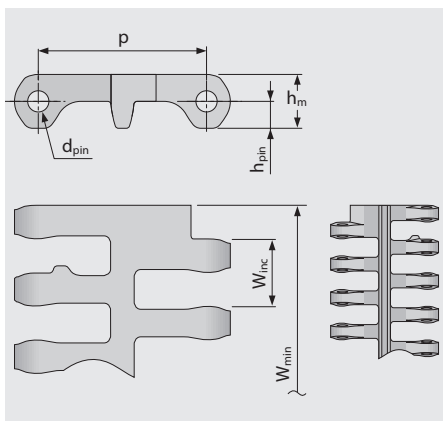
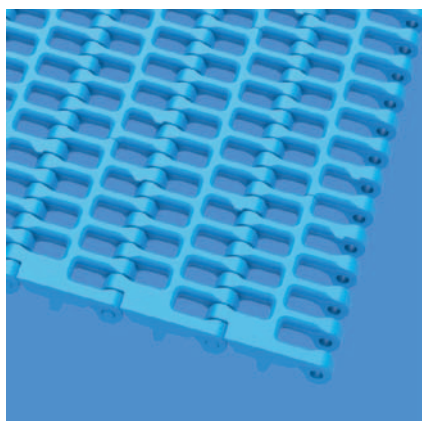
SERIES 6.1 | BELT TYPES

siebling prolink
modular belts

Straight running belt | Pitch 50 mm (1.97 in)

S6.1-36 FLT | 36 % Opening | Flat top

Open area (36 %) for excellent air circulation and drainage | 35 % contact area (Largest opening: 11.8 x 15.2 mm/0.46 x 0.6 in)
Smooth surface | Easy-to-clean



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 [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1 C _c x W _B	r2	r3	r4	r5
mm	50.0	6.0	16.0	8.0	0.0	100.0	20.0	±0.2	–	50.0	100.0	150.0	50.0
inch	1.97	0.24	0.63	0.31	0.0	3.94	0.79	±0.2	–	1.97	3.94	5.91	1.97

Available standard materials⁴⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m ²]	[lb/ft ²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
PE	WT	PE	WT	13	891	6.2	1.27	-0.5	-70/65	-94/149	●	●
PE	LB	PE	LB	13	891	6.2	1.27	-0.5	-70/65	-94/149	●	●
POM	WT	PBT	UC	30	2056	9.0	1.84	-0.5	-45/90	-49/194	●	●
POM	LB	PBT	LB	30	2056	9.0	1.84	-0.5	-45/90	-49/194	●	●
PP	WT	PP	WT	18	1233	5.9	1.21	0.0	5/100	41/212	●	●
PP	LB	PP	LB	18	1233	5.9	1.21	0.0	5/100	41/212	●	●

Mold to order belts

PP-MD	BL	PP-MD	BL	18	1233	6.4	1.31	0.0	5/100	41/212	●	●
PE-MD	BL	POM-MD	BL	13	891	6.7	1.37	-0.5	-70/65	-94/149	●	●
POM-MD	BL	POM-MD	BL	30	2056	9.2	1.88	-0.5	-45/90	-49/194	●	●

Attention! Due to the very large surface openings, personnel must be instructed not to place their fingers in or on this belt.

■ BL (Blue), ■ LB (Light 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

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⁴⁾ More materials and colors on request



MOVEMENT SYSTEMS

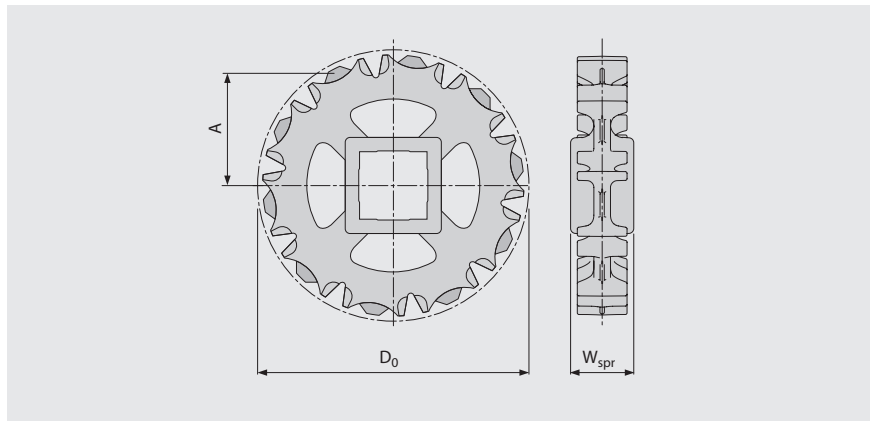
SERIES 6.1 | SPROCKETS

siebling prolink
modular belts

Straight running belt | Pitch 50 mm (1.97 in)

S6.1 SPR | Sprockets

Special easy-to-clean sprocket with enhanced tooth engagement for excellent force transmission



Main dimensions

Sprocket size (Number of teeth)		Z6	Z8	Z10	Z12	Z16
W _{spr}	mm	38.0	38.0	38.0	38.0	38.0
	inch	1.5	1.5	1.5	1.5	1.5
D ₀	mm	101.6	132.9	163.5	195.3	257.8
	inch	4.00	5.23	6.44	7.69	10.15
A _{max}	mm	41.6	57.8	73.3	89.3	120.7
	inch	1.64	2.28	2.89	3.52	4.75
A _{min}	mm	36.0	53.4	69.7	86.3	118.4
	inch	1.42	2.10	2.74	3.40	4.66

Shaft bores (● = Round, ■ = Square)

30	mm	●	●	●		
40	mm	■	■	■	■	■
60	mm			■	■	■
1	inch	●	●	●		
1.25	inch		●	●		
1.44	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

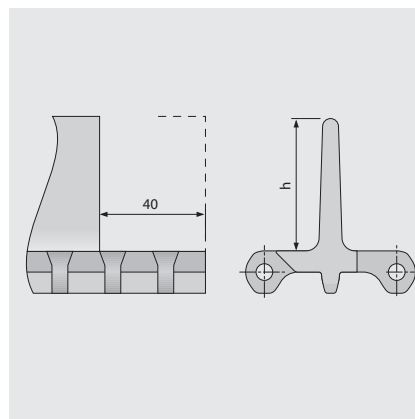
SERIES 6.1 | PROFILES

Straight running belt | Pitch 50 mm (1.97 in)

siegling prolink
modular belts

S6.1-0 FLT PMU/S6.1-0 FLT PMU I40

Flat top surface for dry products

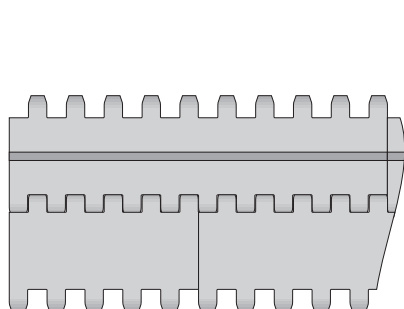


Basic data

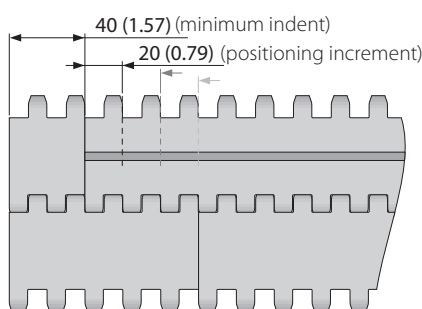
Material	Color	Height (h)		
		50 mm 2 inch	100 mm 4 inch	150 mm 6 inch
PE	LB/WT	●/▲	●/▲	●
POM-CR	LB		●	
POM	LB/WT	●/▲	●/▲	●
POM-MD	BL	●	●	●
PP	LB/WT	●/▲	●/▲	●
PP-MD	BL		●	

● = no indent, ▲ = with indent 40 mm

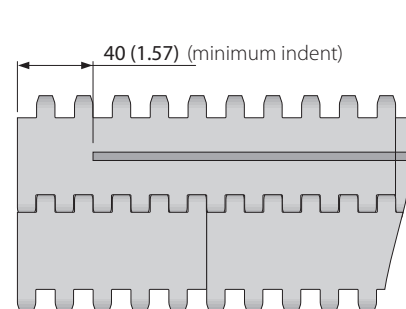
Molded width: 200 mm (7.9 in)



Standard configuration S6.1-0 FLT PMU



Indent configuration S6.1-0 FLT PMU



Standard configuration S6.1-0 FLT PMU I40

■ 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.



MOVEMENT SYSTEMS

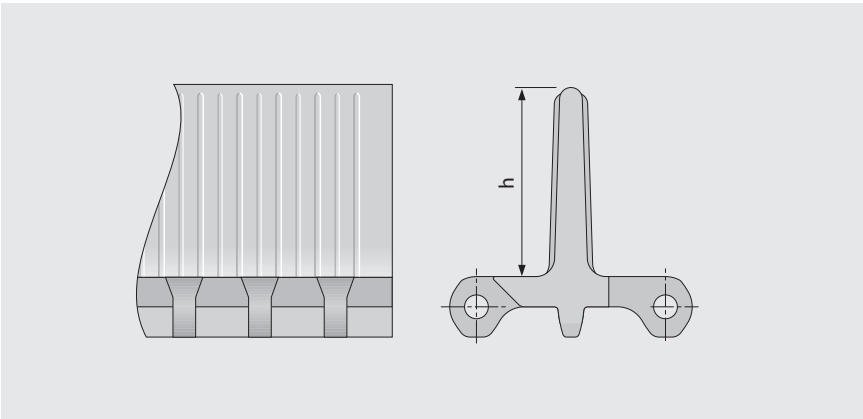
SERIES 6.1 | PROFILES

Straight running belt | Pitch 50 mm (1.97 in)

siegling prolink
modular belts

S6.1-0 NCL PMU

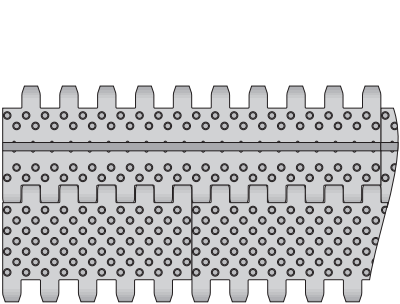
No cling surface with nub top base to improve release of wet and sticky products



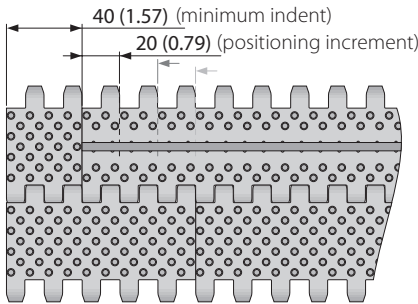
Basic data

Material	Color	Height (h)
		100 mm 4 inch
PE	LB	●
PE	WT	●

Molded width: 200 mm (7.9 in)



Standard configuration S6.1-0 NCL PMU



Indent configuration S6.1-0 NCL PMU

■ 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.

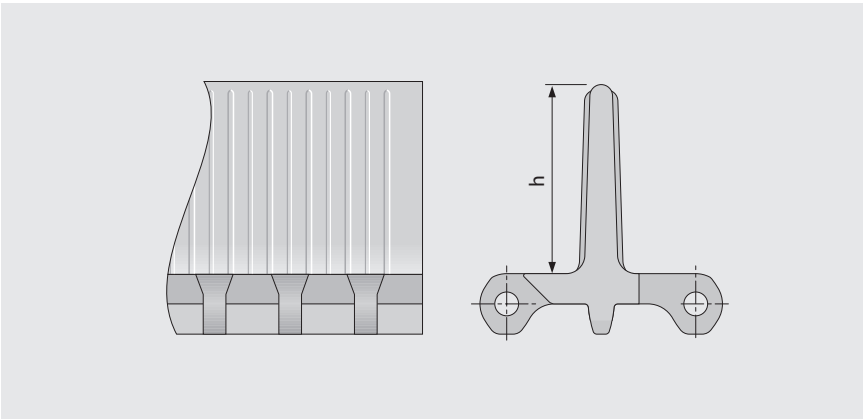
SERIES 6.1 | PROFILES

Straight running belt | Pitch 50 mm (1.97 in)

siebling prolink
modular belts

S6.1-23 NCL PMU

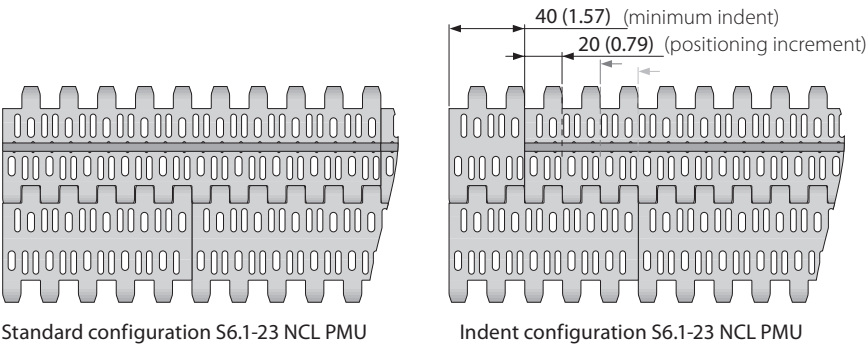
No cling surface with open area base (23 %) to improve release of wet and sticky products



Basic data

Material	Color	Height (h)
		100 mm 4 inch
PE	LB	●
PE	WT	●
PP	LB	●
PP	WT	●

Molded width: 200 mm (7.9 in)



■ 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.

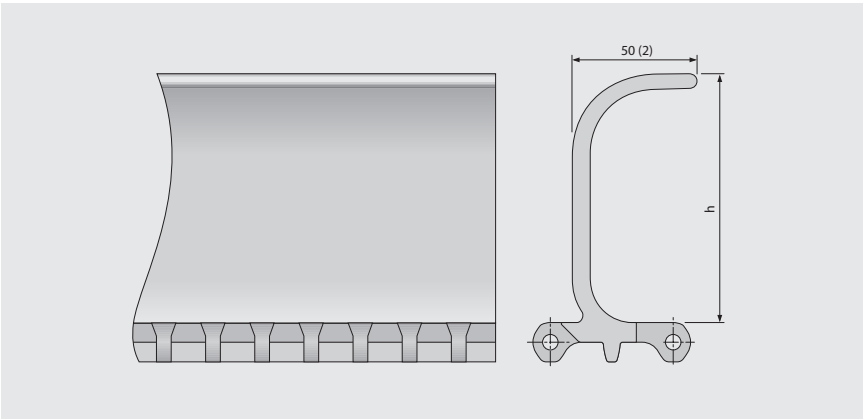
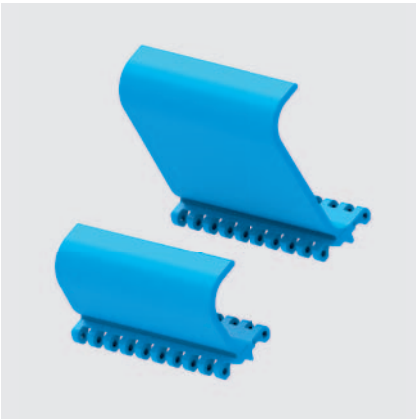
SERIES 6.1 | PROFILES

Straight running belt | Pitch 50 mm (1.97 in)

siegling prolink
modular belts

S6.1-0 FLT PSU-0

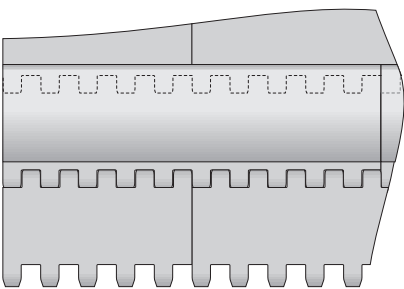
Scooped profiles with a closed, flat top surface for steep incline conveyors



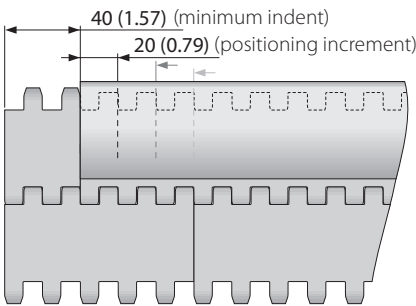
Basic data

Material	Color	Height (h)		
		76 mm 3 inch	102 mm 4 inch	152 mm 6 inch
PE	LB	●	●	●
PE	WT	●	●	●
POM	LB	●	●	●
POM	WT	●	●	●
PP	LB	●	●	●
PP	WT	●	●	●
PP-MD	BL		●	●

Molded width: 200 mm (7.9 in)



Standard configuration S6.1-0 FLT PSU-0



Indent configuration S6.1-0 FLT PSU-0

■ 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.

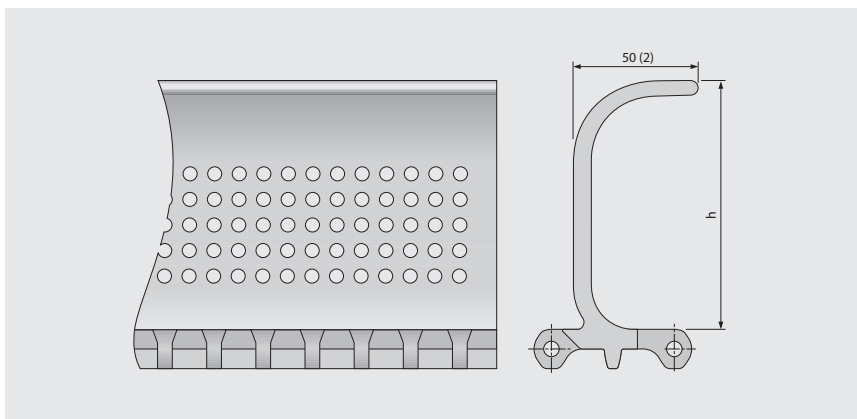
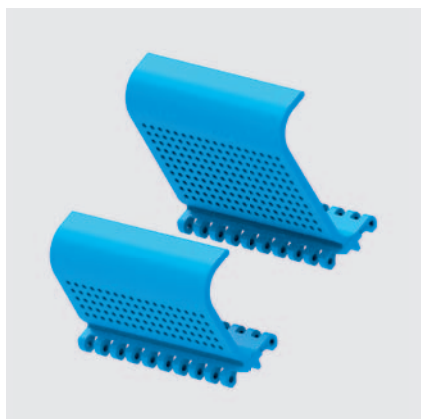
SERIES 6.1 | PROFILES

Straight running belt | Pitch 50 mm (1.97 in)

siebling prolink
modular belts

S6.1-0 FLT PSU-16

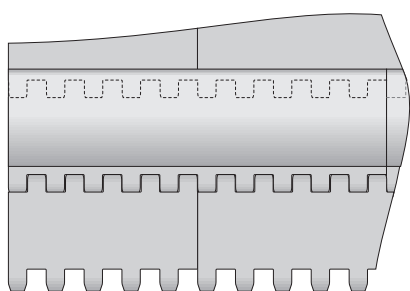
Scooped profiles with 16 % open area and a flat top surface allowing product drainage when conveying up steep inclines



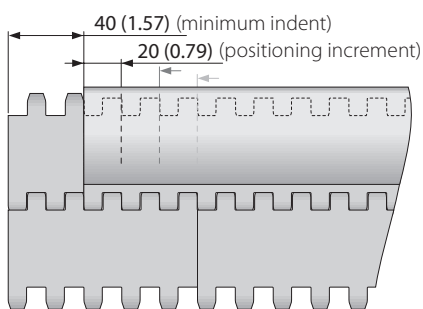
Basic data

Material	Color	Height (h)	
		102 mm 4 inch	152 mm 6 inch
PE	LB	●	●
PE	WT	●	●
POM	LB	●	●
POM	WT	●	●
PP	LB	●	●
PP	WT	●	●

Molded width: 200 mm (7.9 in)



Standard configuration S6.1-0 FLT PSU-16



Indent configuration S6.1-0 FLT PSU-16

■ 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.



MOVEMENT SYSTEMS

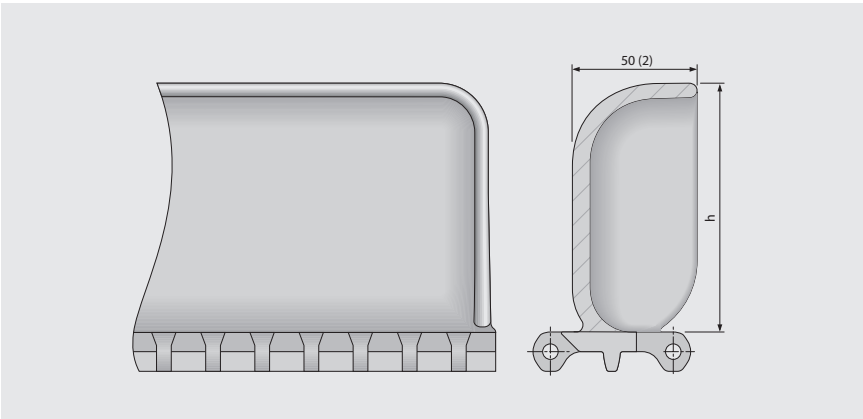
SERIES 6.1 | PROFILES

Straight running belt | Pitch 50 mm (1.97 in)

siegling prolink
modular belts

S6.1-0 FLT BPU

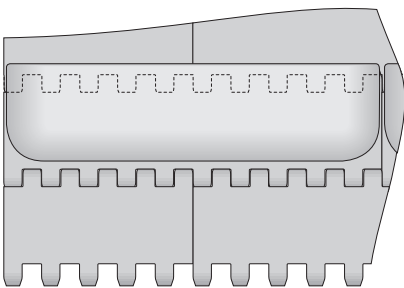
Bucket Profiles for contained conveying of bulk products up steep inclines



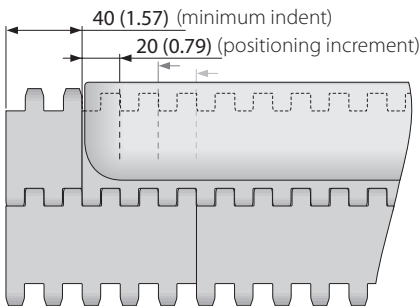
Basic data

Material	Color	Height (h)	
		102 mm 4 inch	152 mm 6 inch
PE	LB	●	●
PE	WT	●	●
POM	LB	●	●
POM	WT	●	●
PP	LB	●	●
PP	WT	●	●

Molded width: 200 mm (7.9 in)



Standard configuration S6.1-0 FLT BPU



Indent configuration S6.1-0 FLT BPU

■ 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.

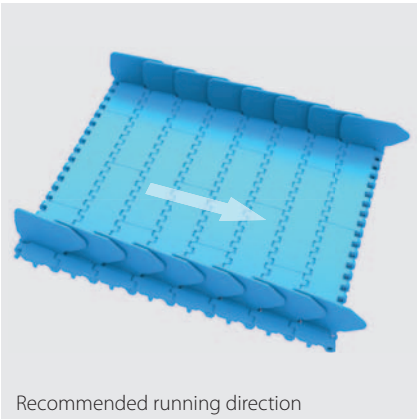
SERIES 6.1 | SIDE GUARDS

siegling prolink
modular belts

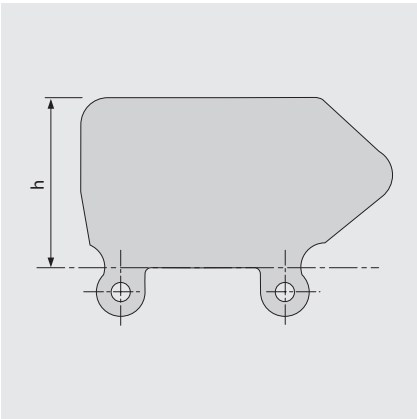
Straight running belt | Pitch 50 mm (1.97 in)

S6.1 SG | Side guards

For retention of bulk products

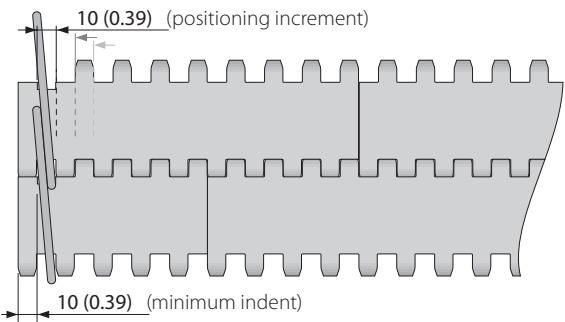


Recommended running direction



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.

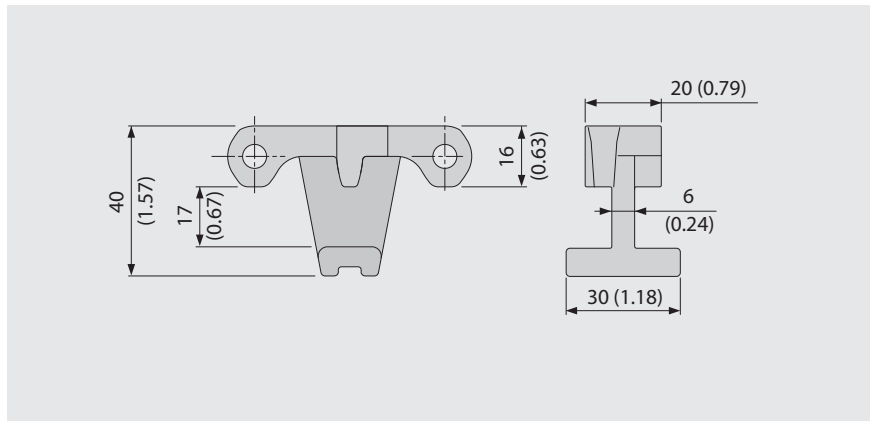
SERIES 6.1 | HOLD DOWN TABS

siegling prolink
modular belts

Straight running belt | Pitch 50 mm (1.97 in)

S6.1 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

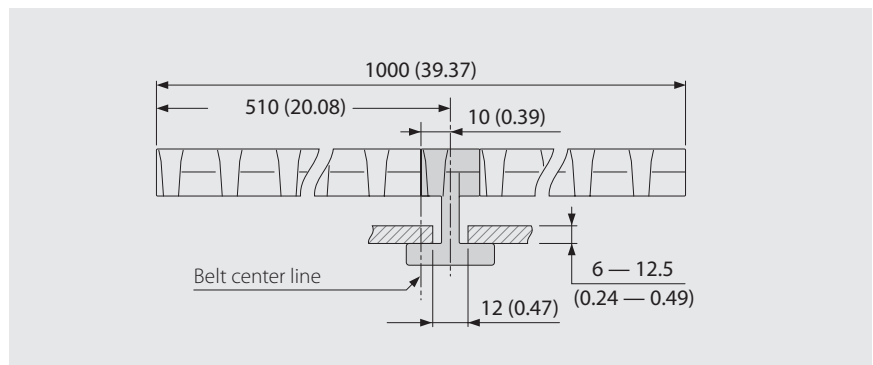


Basic data

Material	Color
POM	LB
	WT

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]
Z6	20	0.75	15	0.5
Z8	50	1.75	40	1.5
Z10	80	3.0	60	2.5
Z12	110	4.25	85	3.25
Z16	170	6.5	130	5.25

■ 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.



MOVEMENT SYSTEMS

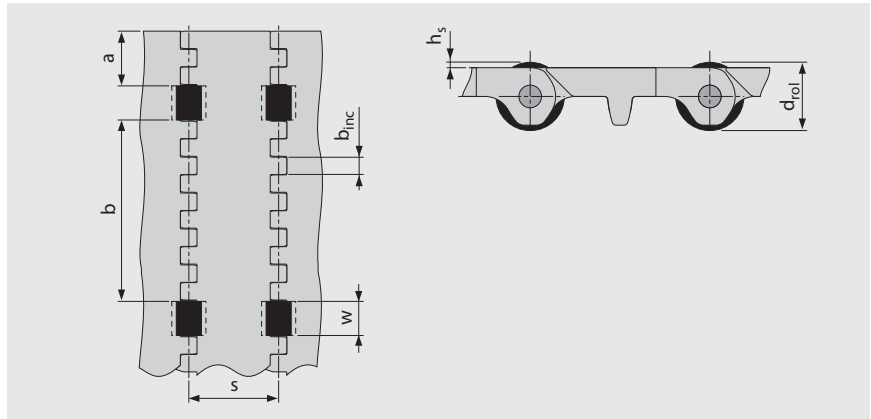
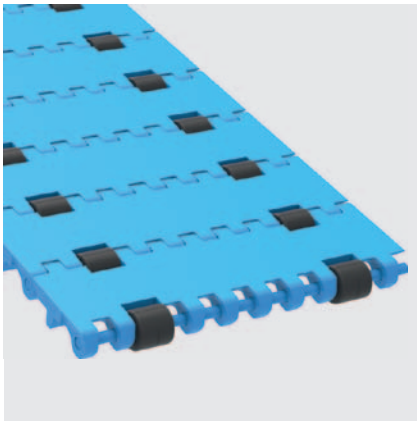
SERIES 6.1 | PRR

siebling prolink
modular belts

Straight running belt | Pitch 50 mm (1.97 in)

S6.1 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

Dimensions

w	20 (0.79)	Roller cut out width (roller width 19 mm (0.75 in))
h _s	2 (0.08)	Height of rollers above surface
d _{rol}	20 (0.79)	Roller diameter
a	30 (1.2)	Minimum indent
b	100 (3.9)	Standard distance between rollers across belt width
b _{inc}	10 (0.39)	Roller distance increment
s	50 (2.0)	Standard roller spacing in travel direction (every pitch)
n _{rol}	Number of rollers across belt width	
W _B	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: $W_B = 200 \text{ mm (7.87 in)}$; $A = 20 \text{ mm (0.79 in)}$; $l = 2$

$$W_{B,ef} = 200 - (2 \times 20) = 160 \text{ mm}$$

$$W_{B,ef} = 7.87 - (2 \times 0.79) = 6.29 \text{ in}$$

Note sprocket must not be placed inline with rollers.

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-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
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.