

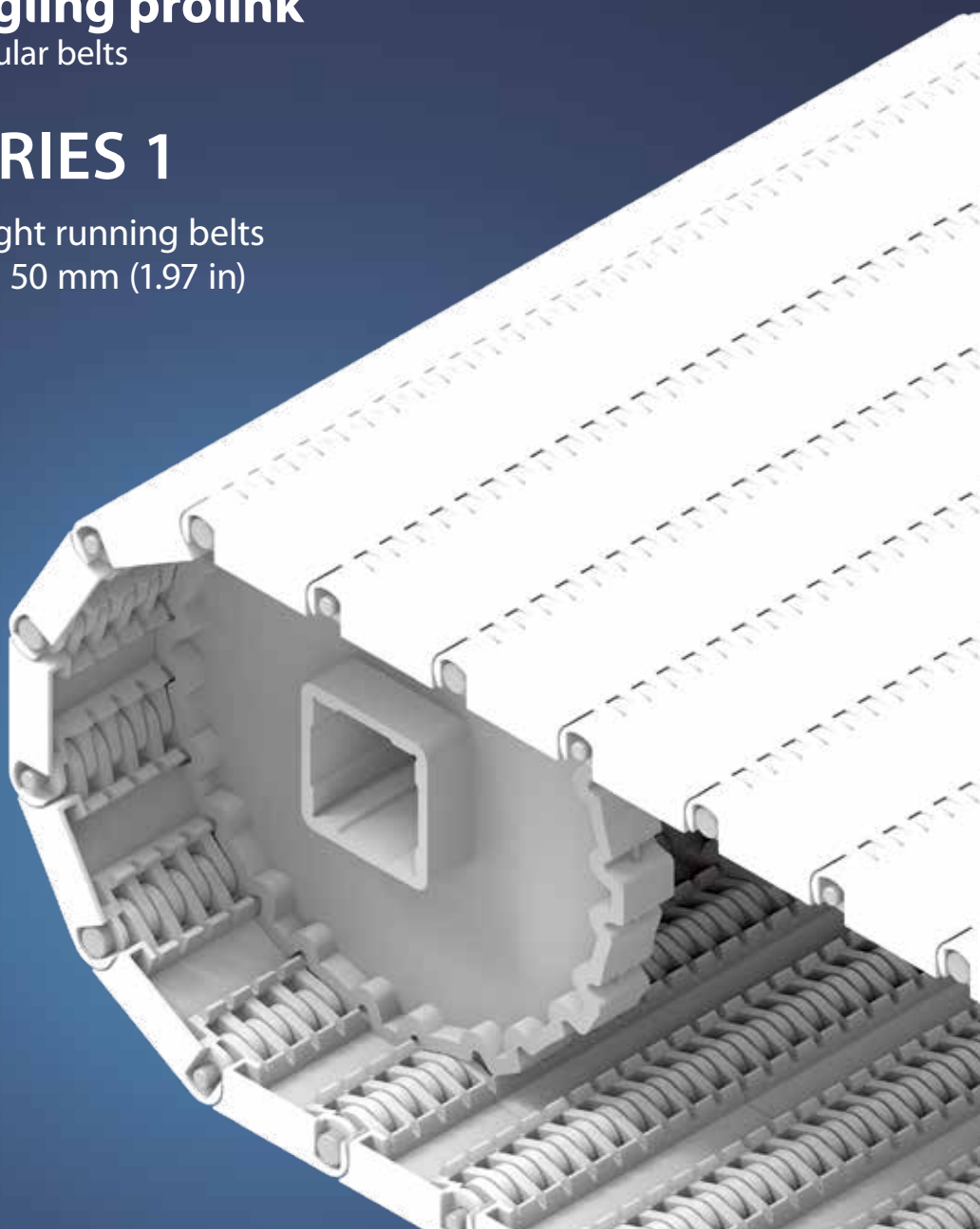
EXCERPT FROM PROLINK ENGINEERING MANUAL

08/25 (Ref-No. 888)

siegling prolink
modular belts

SERIES 1

Straight running belts
Pitch 50 mm (1.97 in)



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Ref. no. 888-1_1.2_S1

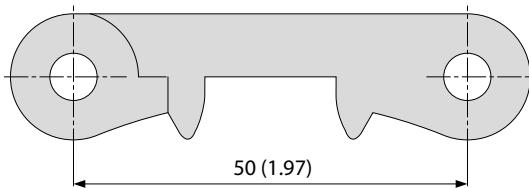
SERIES 1 | OVERVIEW

siebling prolink
modular belts

Straight running belts | Pitch 50 mm (1.97 in)

Belts for medium to heavy-duty industrial conveying applications

Side view scale 1:1



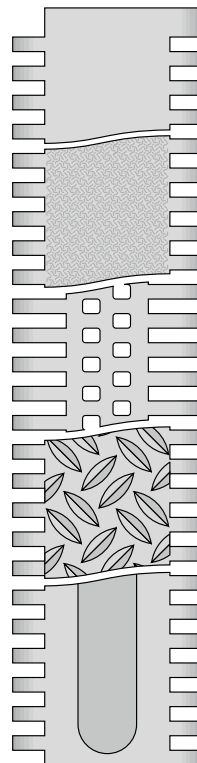
Design characteristics

- Narrow, closed hinge design provides high belt pull capacity
- Rigid module design makes belt suitable for long conveyors
- Closed solid edge design

Basic data

Pitch	50 mm (1.97 in)
Belt width min.	80 mm (3.15 in) 250 mm (9.8 in) for belts with FRT-pattern (side modules only available without FRT-pattern)
Width increments	10 mm (0.4 in)
Hinge pins	6 mm (0.24 in) made of plastic (PBT, PP, PE). One-piece up to a belt width of 1200 mm (47 in).

Available surface pattern and opening area



S1-0 FLT

Closed, smooth surface

S1-0 SRS

Closed, slip-resistant surface

S1-18 FLT

Open (18%), smooth surface

S1-0 NSK

Closed surface and non skid pattern

S1-0 FRT1

Closed surface with friction top

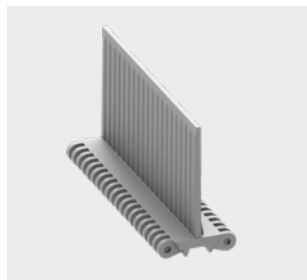
Sprockets

in different sizes with round or square bore



Profiles

in different heights and designs for inclines



Side guards

in different heights for retention of bulk products



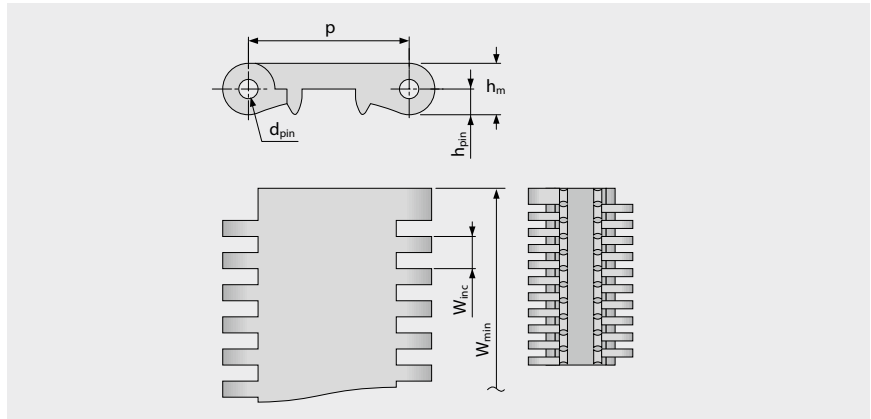
SERIES 1 | BELT TYPES

siebling prolink
modular belts

Straight running belt | Pitch 50 mm (1.97 in)

S1-0 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	50.0	6.0	16.0	8.0	0.0	80.0	10.0	±0.2	–	50.0	100.0	150.0	50.0
inch	1.97	0.24	0.63	0.31	0.0	3.15	0.39	±0.2	–	1.97	3.94	5.91	1.97

Available standard materials³⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates ²⁾		
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m ²]	[lb/ft ²]	[%]	[°C]	[°F]	FDA	EU	MHLW
PE	WT	PE	UC	18	1233	10.1	2.07	-0.35	-70/65	-94/149	●	●	●
POM	WT	PBT	UC	40	2741	14.4	2.95	-0.75	-45/90	-49/194	●	●	●
POM	AT	PBT	UC	40	2741	14.4	2.95	-0.75	-45/90	-49/194			
PP	WT	PP	WT	30	2056	9.4	1.93	0.0	5/100	41/212	●	●	●
PP	AT	PP	WT	30	2056	9.4	1.93	0.0	5/100	41/212			

■ AT (Anthracite), ■ BK (Black), □ 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

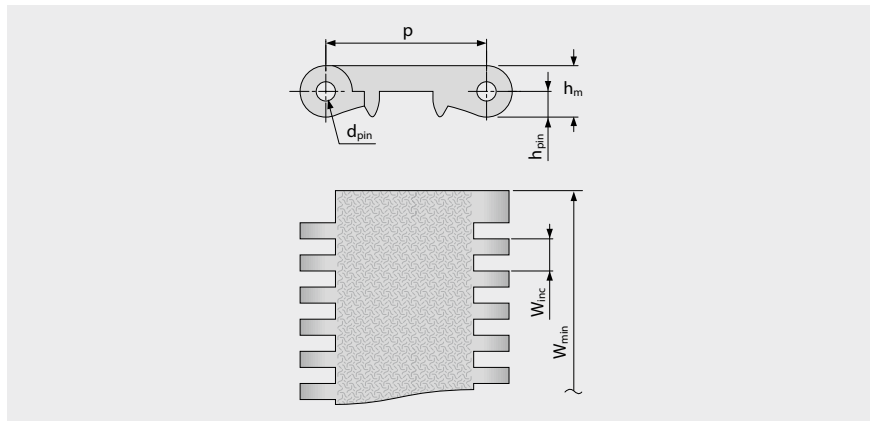
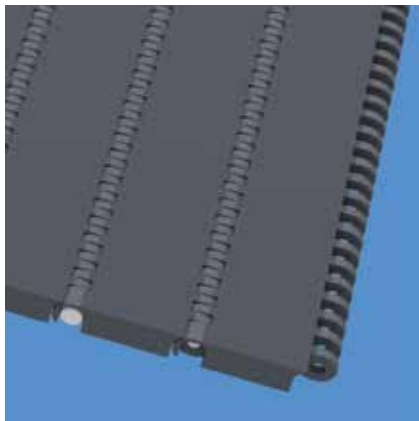
SERIES 1 | BELT TYPES

siebling prolink
modular belts

Straight running belt | Pitch 50 mm (1.97 in)

S1-0 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	50.0	6.0	16.0	8.0	0.0	80.0	10.0	±0.2	–	50.0	100.0	150.0	50.0
inch	1.97	0.24	0.63	0.31	0.0	3.15	0.39	±0.2	–	1.97	3.94	5.91	1.97

Mold to order belts³⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates ²⁾		
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m ²]	[lb/ft ²]	[%]	[°C]	[°F]	FDA	EU	MHLW
POM	AT	PBT	UC	40	2741	14.4	2.95	-0.75	-45/90	-49/194			
POM-HC	AT	PBT	UC	40	2741	14.8	3.03	-0.75	-45/90	-49/194	–	–	
PXX-HC	BK	PBT	UC	20	1370	10.3	2.11	0.0	5/100	41/212	–	–	

■ AT (Anthracite), ■ BK (Black), □ UC (Uncolored)

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

All imperial dimensions (inches) are rounded off.

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

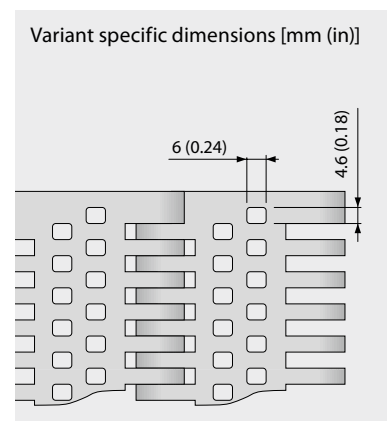
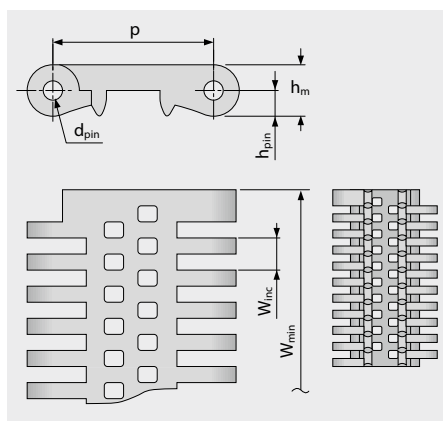
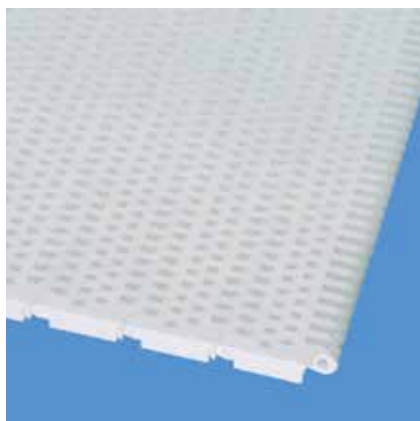
SERIES 1 | BELT TYPES

siebling prolink
modular belts

Straight running belt | Pitch 50 mm (1.97 in)

S1-18 FLT | 18% Opening | Flat top

Open version (18%) for excellent air circulation and drainage | 66% contact area (Largest opening: 4.6 x 6 mm/0.18 x 0.24 in) | Flat top surface | 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	50.0	6.0	16.0	8.0	0.0	80.0	10.0	±0.2	–	50.0	100.0	150.0	50.0
inch	1.97	0.24	0.63	0.31	0.0	3.15	0.39	±0.2	–	1.97	3.94	5.91	1.97

Available standard materials³⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates ²⁾		
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m ²]	[lb/ft ²]	[%]	[°C]	[°F]	FDA	EU	MHLW
PE	UC	PE	UC	18	1233	8.8	1.80	0.15	-70/65	-94/149	●	●	●
POM	WT	PBT	UC	40	2741	12.7	2.60	-0.7	-45/90	-49/194	●	●	●
PP	WT	PP	WT	30	2056	8.2	1.68	0.0	5/100	41/212	●	●	●

□ 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

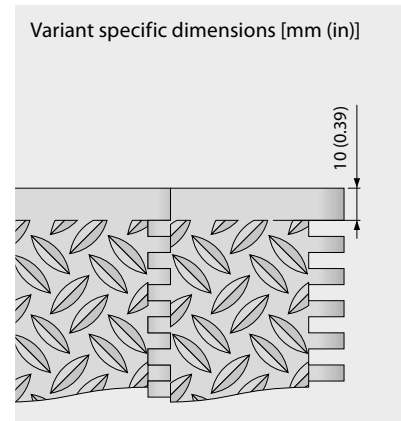
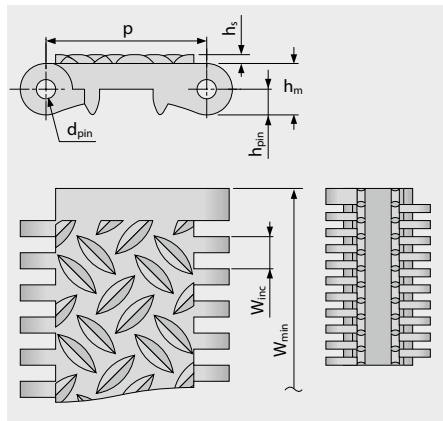
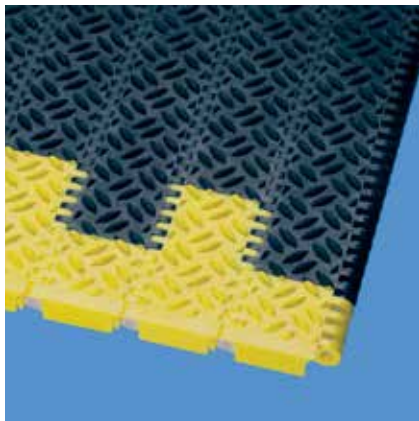
SERIES 1 | BELT TYPES

siegling prolink
modular belts

Straight running belt | Pitch 50 mm (1.97 in)

S1-0 NSK | 0 % Opening | Non skid

Closed surface | Non skid surface for increased safety when walking on belt



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	50.0	6.0	16.0	8.0	2.8	80.0	10.0	±0.2	–	50.0	100.0	150.0	50.0
inch	1.97	0.24	0.63	0.31	0.11	3.15	0.39	±0.2	–	1.97	3.94	5.91	1.97

Available standard materials³⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates ²⁾		
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m ²]	[lb/ft ²]	[%]	[°C]	[°F]	FDA	EU	MHLW
POM	AT	PBT	UC	40	2741	16.0	3.28	-0.75	-45/90	-49/194			
POM-HC	AT	PBT	UC	40	2741	16.0	3.28	-0.75	-45/90	-49/194	–	–	
POM	YL	PBT	UC	40	2741	16.0	3.28	-0.75	-45/90	-49/194			

■ AT (Anthracite), □ UC (Uncolored), ■ YL (Yellow)

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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³⁾ More materials and colors on request



MOVEMENT SYSTEMS

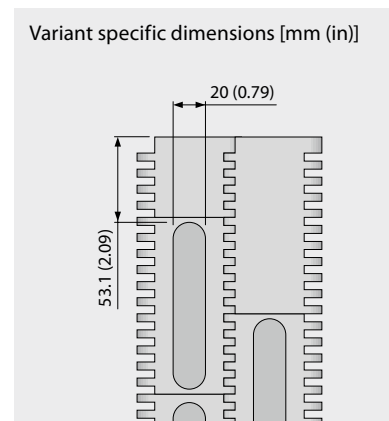
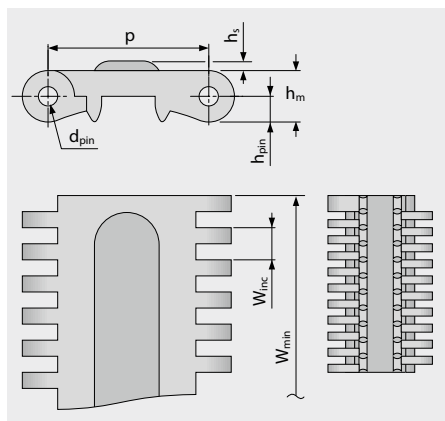
SERIES 1 | BELT TYPES

siegling prolink
modular belts

Straight running belt | Pitch 50 mm (1.97 in)

S1-0 FRT1 | 0% Opening | Friction top (Design 1)

Closed surface | Friction top with replaceable rubber pads for increased grip



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	50.0	6.0	16.0	8.0	3.0	250.0	10.0	±0.2	–	50.0	100.0	150.0	50.0
inch	1.97	0.24	0.63	0.31	0.12	9.84	0.39	±0.2	–	1.97	3.94	5.91	1.97

Available standard materials³⁾

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	MHLW
POM	WT	PBT	UC	R2	BK	40	2741	15.0	3.07	-0.75	-45/90	-49/194	–	–	

■ BK (Black), □ 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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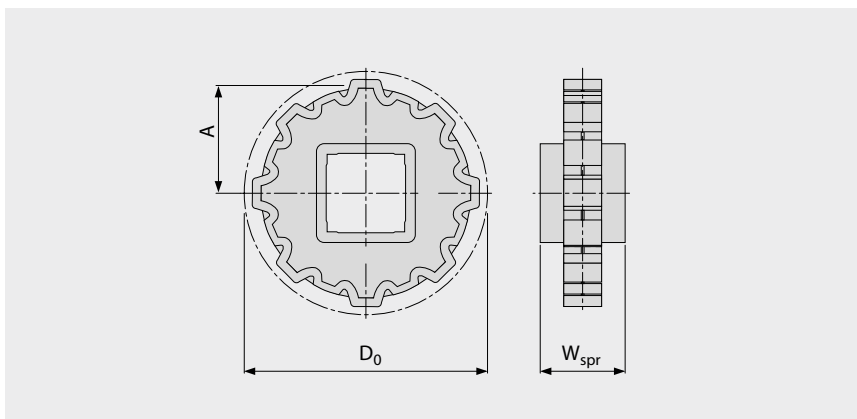
MOVEMENT SYSTEMS

SERIES 1 | SPROCKETS

Straight running belt | Pitch 50 mm (1.97 in)

siebling prolink
modular belts

S1 SPR | Sprockets



Main dimensions

Sprocket size (Number of teeth)		Z6	Z8	Z10	Z12	Z16
W _{spr}	mm	40.0	40.0	40.0	40.0	40.0
	inch	1.57	1.57	1.57	1.57	1.57
D ₀	mm	100.0	130.8	161.8	193.2	256.3
	inch	3.94	5.15	6.37	7.61	10.09
A _{max}	mm	42.0	57.4	72.9	88.6	120.1
	inch	1.65	2.26	2.87	3.49	4.73
A _{min}	mm	36.4	53.0	69.3	85.6	117.8
	inch	1.43	2.09	2.73	3.37	4.64

Shaft bores (● = Round, ■ = Square; ○ or □ = mold to order)

25	mm			○		
30	mm	●	●	●		
40	mm	■	■	■	■	■
60	mm		■	■	■	■
80	mm				■	■
1	inch	●	○	○		
1.5	inch	■	■	■	□	
2.5	inch				□	■

Material: POM, Color: UC

□ UC (Uncolored)

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

All imperial dimensions (inches) are rounded off.

For detailed sprocket and shaft dimensions see appendix 6.3

Number of sprockets (sprocket spacing distance) see chapter 3.2



MOVEMENT SYSTEMS

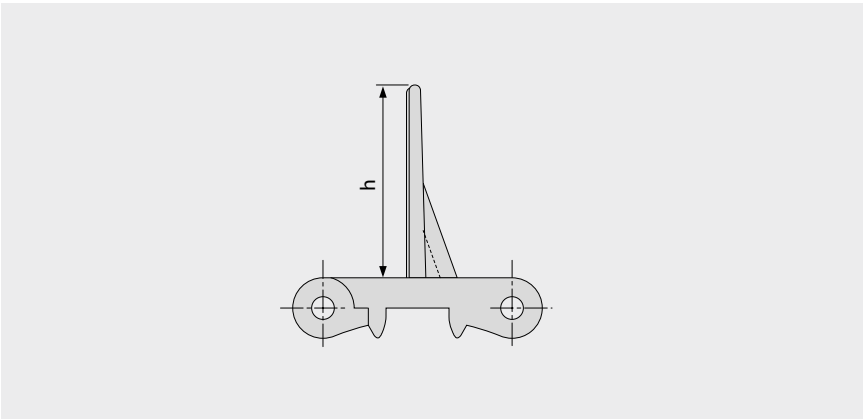
SERIES 1 | PROFILES

Straight running belt | Pitch 50 mm (1.97 in)

siegling prolink
modular belts

S1-0 FLT PMC

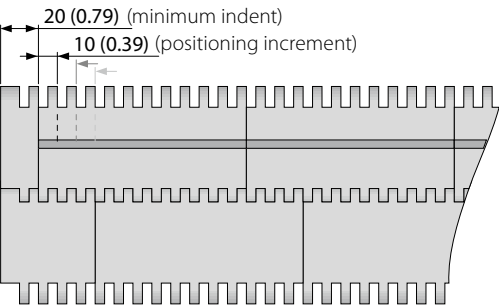
Flat top surface for dry products | No cling surface to improve release of wet and sticky products



Basic data

Material	Color	Height (h)	
		50 mm 2 inch	100 mm 4 inch
PE	WT	●	●
POM	AT	●	
POM	WT	●	●
PP	WT	●	●

Molded width: 200 mm (7.9 in)



Standard configuration S1-0 FLT PMC

■ AT (Anthracite), □ 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.

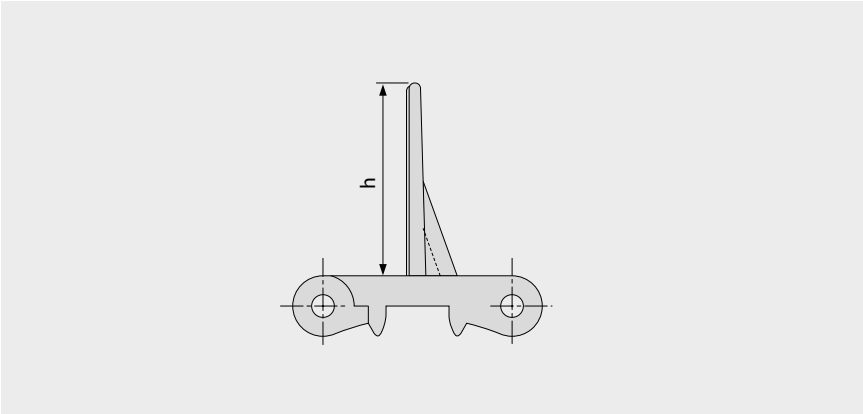
SERIES 1 | PROFILES

Straight running belt | Pitch 50 mm (1.97 in)

siegling prolink
modular belts

S1-18 FLT PMC

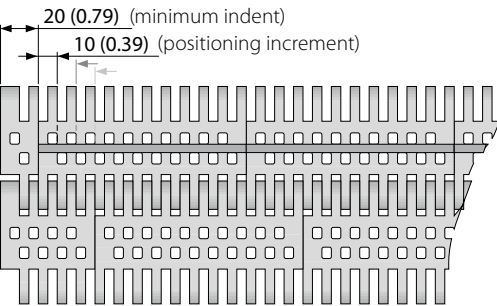
Open version (18 %) base module for drainage | No cling surface to improve release of wet and sticky products



Basic data

Material	Color	Height (h)	
		50 mm 2 inch	100 mm 4 inch
PE	UC	●	●
POM	WT	●	●
PP	WT	●	●

Molded width: 200 mm (7.9 in)



Standard configuration S1-18 FLT PMC

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

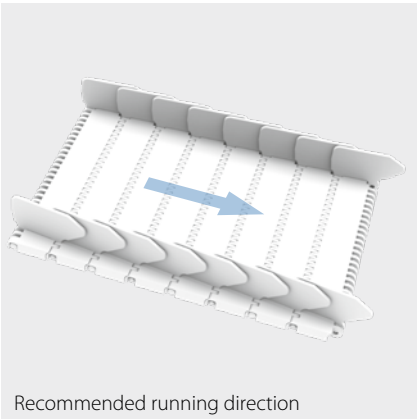
SERIES 1 | SIDE GUARDS

siegling prolink
modular belts

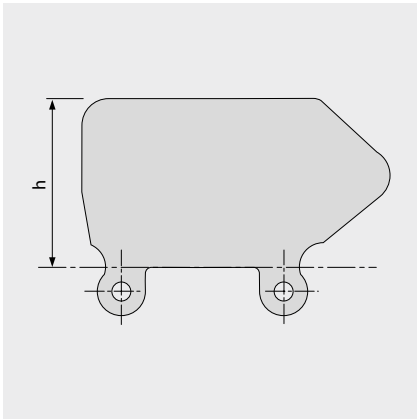
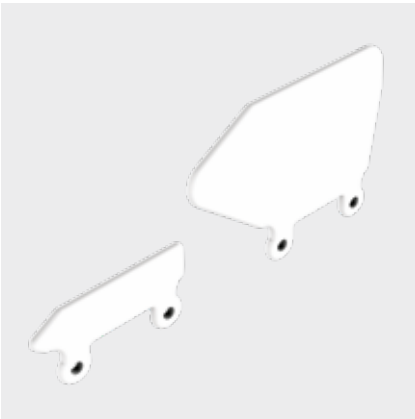
Straight running belt | Pitch 50 mm (1.97 in)

S1 SG | Side guards

For retention of bulk products

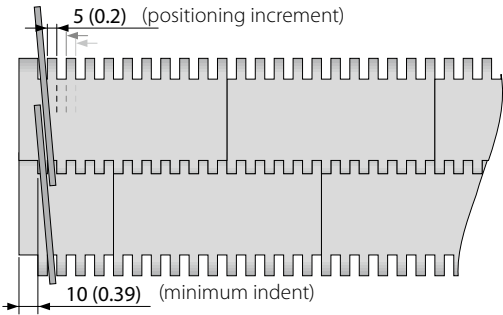


Recommended running direction



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.

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

PSU-0	Prof. scoop uni. closed
PSU-X	Prof. scoop uni. x% open
RI	High Grip insert
ROL	Rollers
RTR	Retaining ring
SG	Module with sideguard
SGL	Side guard, left
SGR	Side guard, right
SLI	Slider
SMA	Side module, A side
SMB	Side module, B side
SML	Side module, left
SMR	Side module, right
SMT	Side module, tight radius
SMU	Side module, universal/both sides
SPR	Sprocket
SPR-SP	Split sprocket, 2-part
SSL	Self stacker side module, left
SSR	Self stacker side module, right
TPL	Turning panel, left
TPR	Turning panel, right
UM	Universal module
WSC	Wheel Stopper Center
WSS	Wheel Stopper Side

⑤ Style	
1.6	1.6 collapse factor
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
HR	Hard removable pin
Ixx	xx = indent in mm
RG	Reversed guided
SG	Side guard
SP	Split sprocket
ST	Strong
V2	Version 2 indicates a design update

⑥ Material	
PA	Polyamide
PA-HT	Polyamide high temperature
PBT	Polybutylenterephthalate
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
SSS	Stainless steel acid resistant
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.