

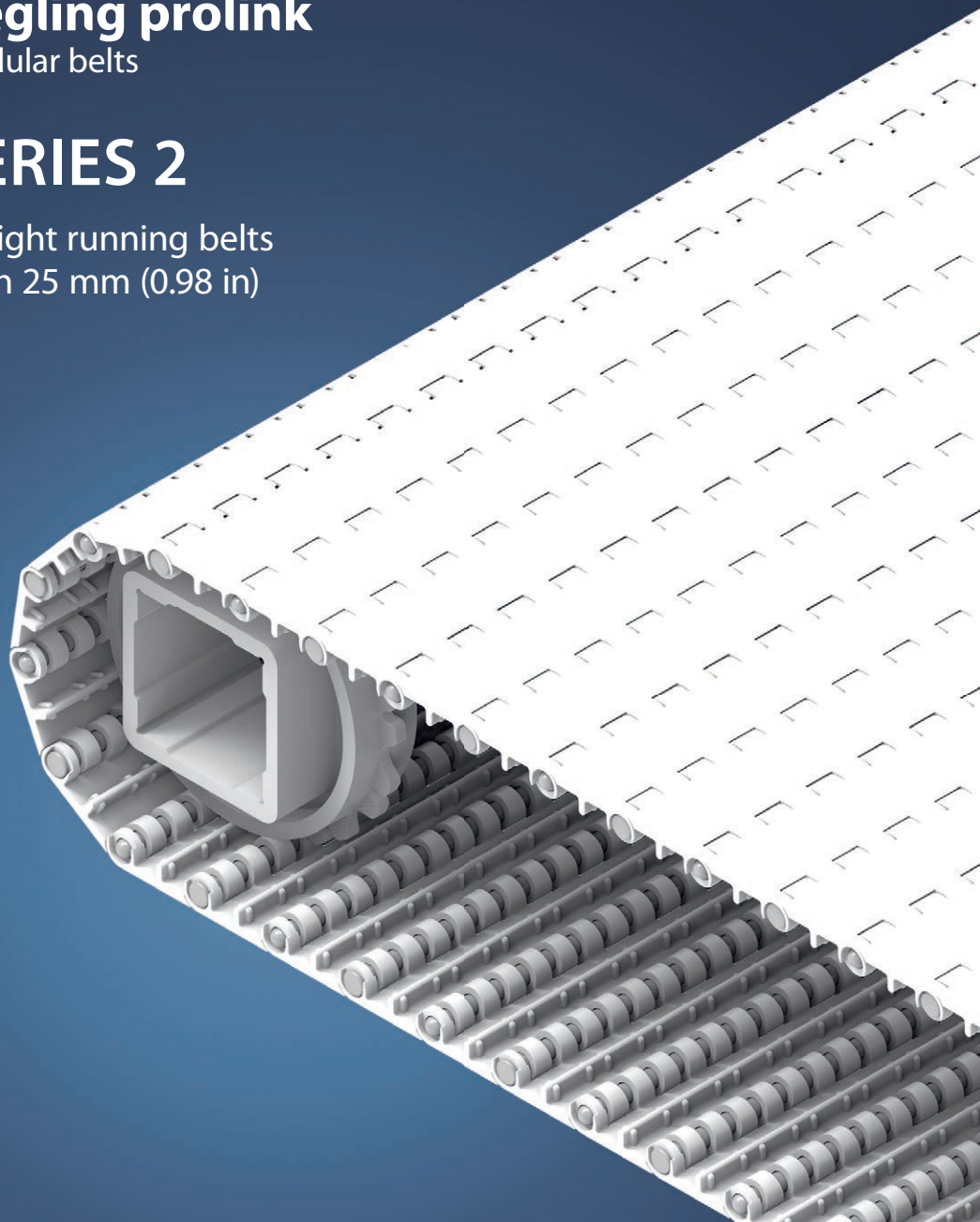
EXCERPT FROM PROLINK ENGINEERING MANUAL

01/24 (Ref-No. 888)

siegling prolink
modular belts

SERIES 2

Straight running belts
Pitch 25 mm (0.98 in)



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Ref. no. 888-2_1.2_S2

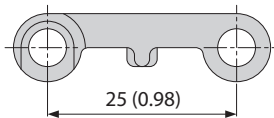
SERIES 2 | OVERVIEW

siebling prolink
modular belts

Straight running belts | Pitch 25 mm (0.98 in)

Belts for light-duty food and container handling applications

Side view scale 1:1



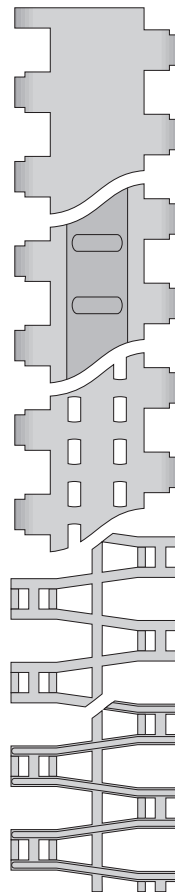
Design characteristics

- Hinges that open wide provides an easy-to-clean belt design
- Low belt weight reduces energy consumption
- Open edge design on flat top versions for unhindered drainage and closed edge design on grid top and raised rib versions

Basic data

Pitch	25 mm (0.98)
Belt width min.	50 mm (1.97 in) 100 mm (3.9 in) for belts with FRT-pattern
Width increments	16.66 mm (0.7 in)
Hinge pins	5 mm (0.2 in) Made of plastic (PBT, PP, PE)

Available surface pattern and opening area



S2-0 FLT

Closed, smooth surface

S2-0 FRT1

Closed surface with friction top

S2-12 FLT

Open (12 %), smooth surface

S2-57 GRT

Open (57 %), grid top surface

S2-57 RRB

Open (57 %), raised rib surface

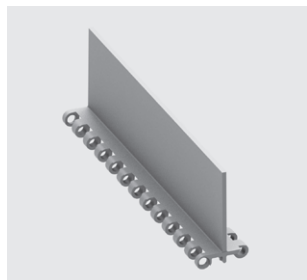
Sprockets

in different sizes with round or square bore



Profiles

in different heights and designs for inclines



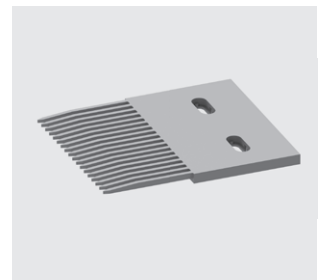
Side guards

in different heights for retention of bulk products



Finger plates

For raised rib types



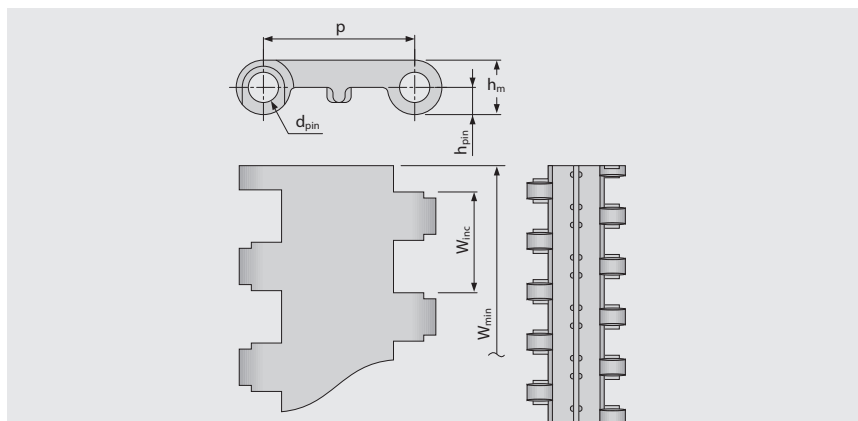
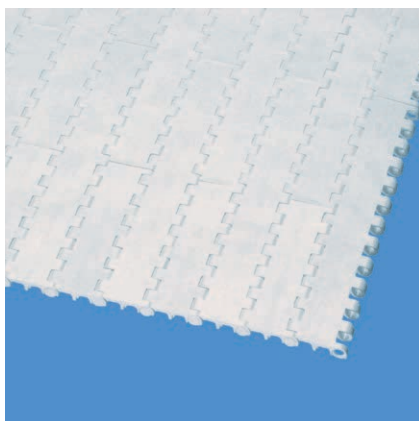
SERIES 2 | BELT TYPES

siebling prolink
modular belts

Straight running belt | Pitch 25 mm (0.98 in)

S2-0 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	25.0	5.0	9.0	4.5	0.0	50.0	16.7	±0.2	–	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.35	0.18	0.0	1.97	0.66	±0.2	–	0.98	1.97	2.95	0.98

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
PE	WT	PE	UC	3	206	3.9	0.8	-0.2	-70/65	-94/149	●	●
POM	WT	PBT	UC	7	480	5.7	1.17	-0.3	-45/90	-49/194	●	●
POM	BL	PBT	BL	7	480	5.7	1.17	-0.3	-45/90	-49/194	●	●
PP	WT	PP	WT	5	343	3.7	0.76	0.25	5/100	41/212	●	●
PP	BL	PP	BL	5	343	3.7	0.76	0.25	5/100	41/212	●	●

Mold to width available in: 50 mm (1.97 in), 100 mm (3.94 in), 200 mm (7.87 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

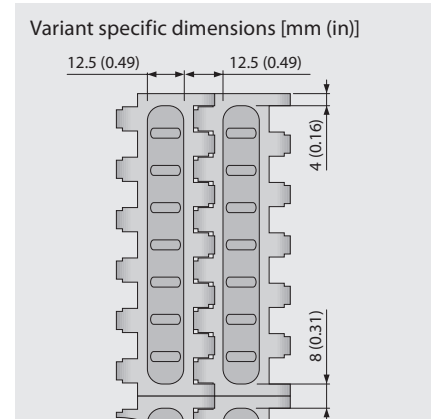
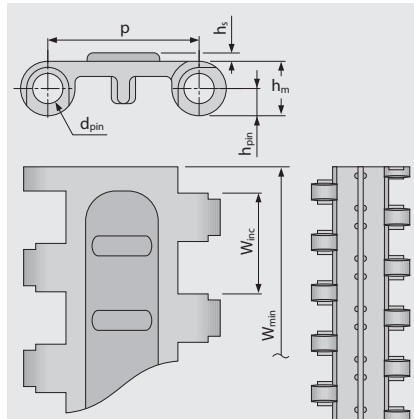
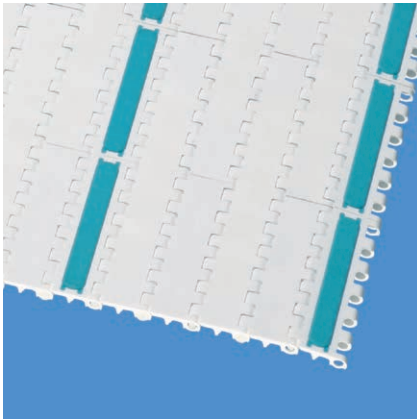
SERIES 2 | BELT TYPES

siegling prolink
modular belts

Straight running belt | Pitch 25 mm (0.98 in)

S2-0 FRT1 | 0% Opening | Friction top (Design 1)

Closed surface | Friction top provides 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	25.0	5.0	9.0	4.5	1.4	100.0	16.7	±0.2	–	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.35	0.18	0.06	3.94	0.66	±0.2	–	0.98	1.97	2.95	0.98

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	WT	PBT	UC	R3	TQ	7	480	5.7	1.17	-0.3	-45/65	-49/149		

Mold to width available in: 100 mm (3.94 in)

■ TQ (Turquoise), ■ 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

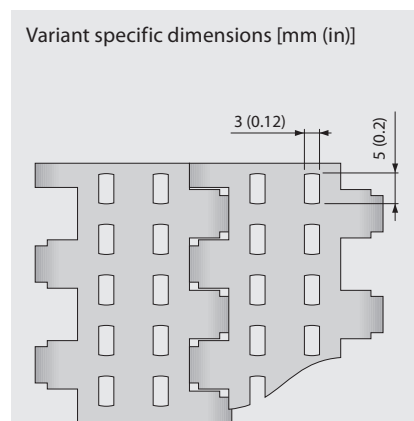
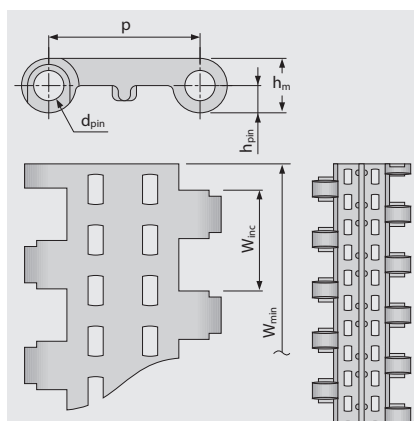
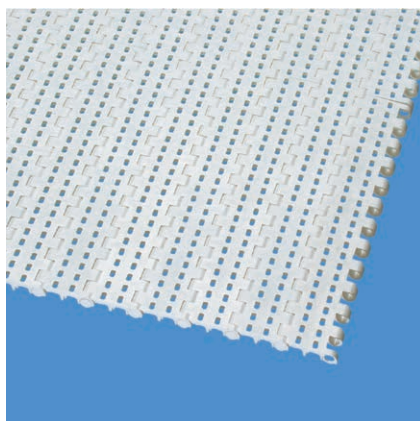
SERIES 2 | BELT TYPES

siebling prolink
modular belts

Straight running belt | Pitch 25 mm (0.98 in)

S2-12 FLT | 12% Opening | Flat top

Open version (12%) for excellent air circulation and drainage | 83% contact area (Largest opening: 5 x 3 mm/0.2 x 0.12 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	25.0	5.0	9.0	4.5	0.0	50.0	16.7	±0.2	–	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.35	0.18	0.0	1.97	0.66	±0.2	–	0.98	1.97	2.95	0.98

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
PE	WT	PE	UC	3	206	3.7	0.76	0.0	-70/65	-94/149	●	●
POM	WT	PBT	UC	7	480	5.4	1.11	-0.1	-45/90	-49/194	●	●
PP	WT	PP	WT	5	343	3.5	0.72	0.2	5/100	41/212	●	●

Mold to width available in: 50 mm (1.97 in), 100 mm (3.94 in), 200 mm (7.87 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 | 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

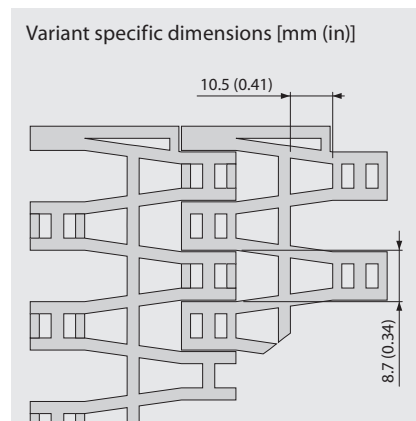
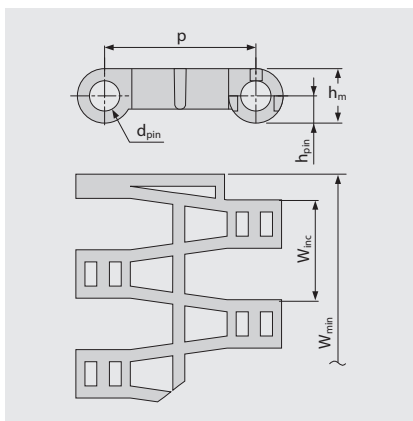
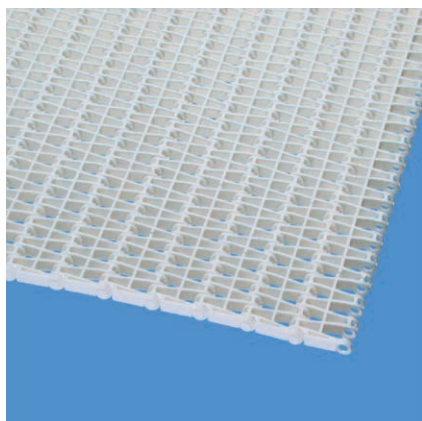
SERIES 2 | BELT TYPES

siebling prolink
modular belts

Straight running belt | Pitch 25 mm (0.98 in)

S2-57 GRT | 57 % Opening | Grid top

Large open area (57 %) allows minimal product contact | 37 % contact area | For excellent air circulation and drainage | Grid 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	25.0	5.0	9.0	4.5	0.0	50.0	16.7	±0.2	–	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.35	0.18	0.0	1.97	0.66	±0.2	–	0.98	1.97	2.95	0.98

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
PE	UC	PE	UC	3	206	3.4	0.7	-0.2	-70/65	-94/149	●	●
PE	DB	PE	DB	3	206	3.4	0.7	-0.2	-70/65	-94/149	●	●
POM	UC	PBT	UC	7	480	4.8	0.98	-0.2	-45/90	-49/194	●	●
POM	BL	PBT	BL	7	480	4.8	0.98	-0.2	-45/90	-49/194	●	●
PP	WT	PP	WT	5	343	3.3	0.68	0.2	5/100	41/212	●	●
PP	BL	PP	BL	5	343	3.3	0.68	0.2	5/100	41/212	●	●

Mold to order belts												
PA-HT	BK	PA-HT	BK	5	343	4.0	0.82	1.3	-30/155	-22/311	–	–

■ BK (Black), ■ BL (Blue), ■ DB (Dark 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

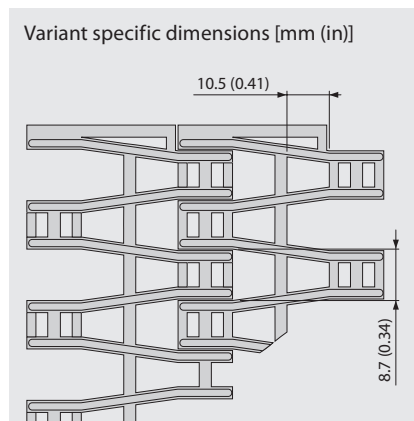
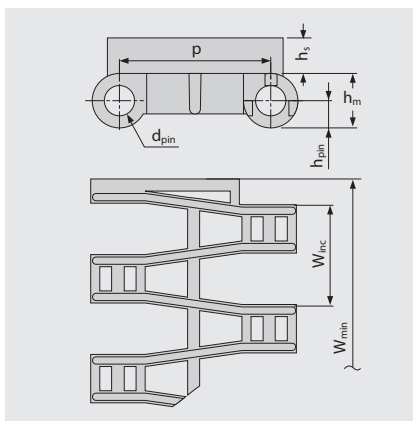
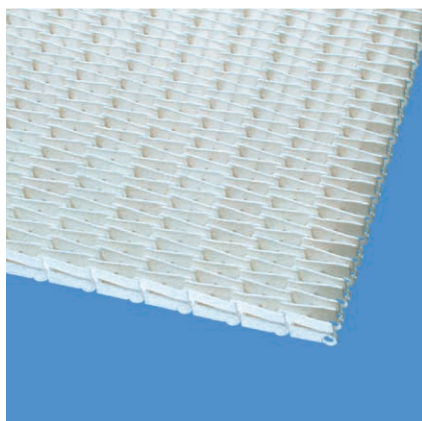
SERIES 2 | BELT TYPES

siebling prolink
modular belts

Straight running belt | Pitch 25 mm (0.98 in)

S2-57 RRB | 57 % Opening | Raised rib

Large open area (57%) for excellent air circulation and drainage | Raised ribs for minimal product contact (28% contact area) and smooth product transfer using finger transfer plates



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	25.0	5.0	9.0	4.5	5.5	50.0	16.7	±0.2	–	25.0	50.0	75.0	50.0
inch	0.98	0.2	0.35	0.18	0.22	1.97	0.66	±0.2	–	0.98	1.97	2.95	1.97

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	7	480	6.2	1.27	-0.2	-45/90	-49/194	●	●
PP	WT	PP	WT	5	343	4.2	0.86	0.2	5/100	41/212	●	●

Mold to order belts												
PE		PE		3	206	4.3	0.88	-0.2	-70/65	-94/149		

■ BL (Blue), □ WT (White)

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

All imperial dimensions (inches) are rounded off.

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



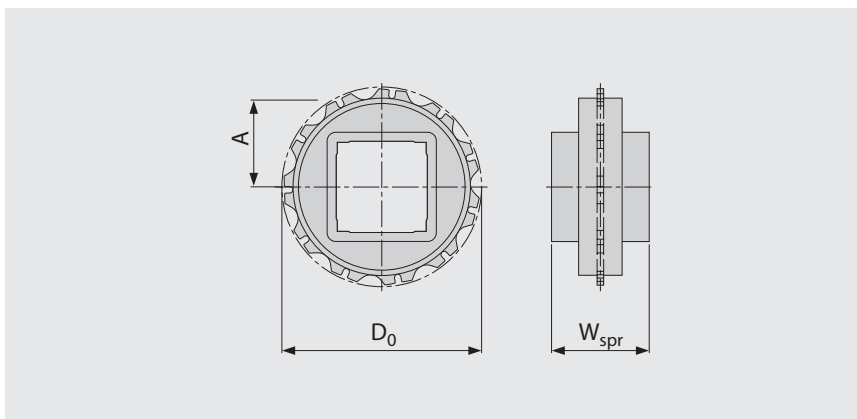
MOVEMENT SYSTEMS

SERIES 2 | SPROCKETS

Straight running belt | Pitch 25 mm (0.98 in)

siegling prolink
modular belts

S2 SPR | Sprockets



Main dimensions

Sprocket size (Number of teeth)		Z6	Z11	Z19	Z20
W_{spr}	mm	25.0	40.0	40.0	40.0
	inch	0.98	1.57	1.57	1.57
D_0	mm	50.4	89.5	153.1	161.1
	inch	1.98	3.52	6.03	6.34
A_{max}	mm	20.7	40.2	72.1	76.0
	inch	0.81	1.58	2.84	2.99
A_{min}	mm	17.9	38.6	71.1	75.1
	inch	0.71	1.52	2.80	2.96

Shaft bores (● = Round, ■ = Square)

25	mm	●/■	●		
30	mm		●		
40	mm		■	■	■
60	mm			■	
80	mm			■	
0.75	inch	●			
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

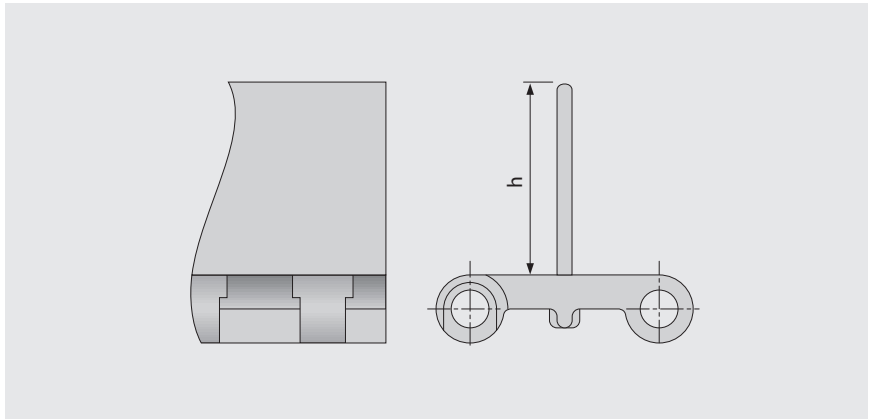
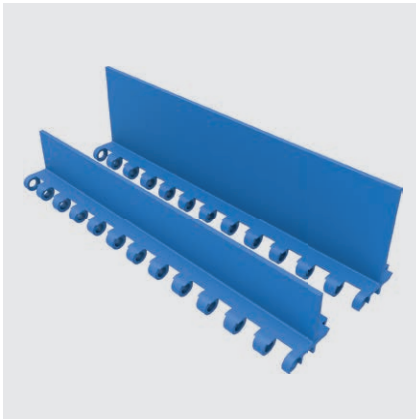
SERIES 2 | PROFILES

Straight running belt | Pitch 25 mm (0.98 in)

siegling prolink
modular belts

S2-0 FLT PMU

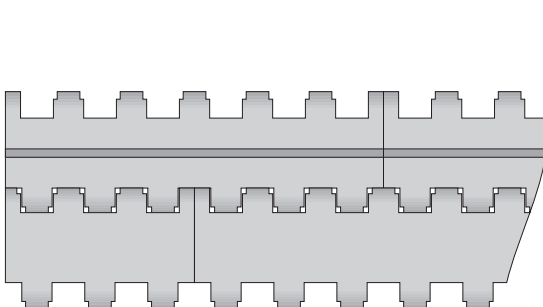
Flat top surface for dry products



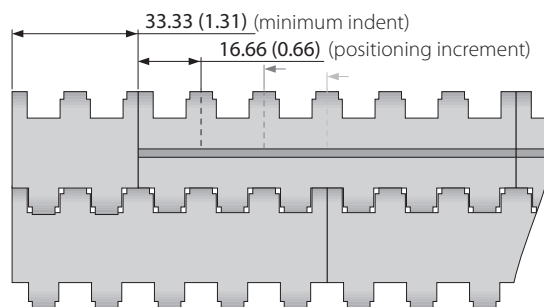
Basic data

Material	Color	Height (h)	
		25 mm 1 inch	50 mm 2 inch
PE	WT	●	●
POM	BL	●	●
POM	WT	●	●
PP	BL	●	●
PP	GN	●	●
PP	WT	●	●

Molded width: 200 mm (7.9 in)



Standard configuration S2-0 FLT PMU



Indent configuration S2-0 FLT PMU

■ BL (Blue), ■ GN (Green), □ 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

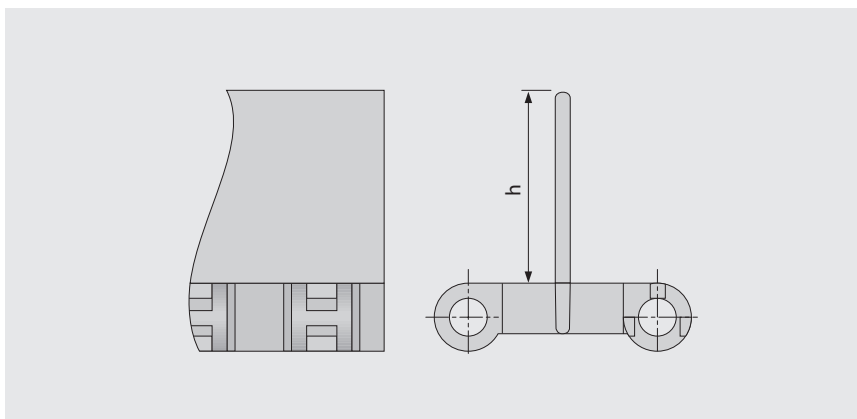
SERIES 2 | PROFILES

Straight running belt | Pitch 25 mm (0.98 in)

siegling prolink
modular belts

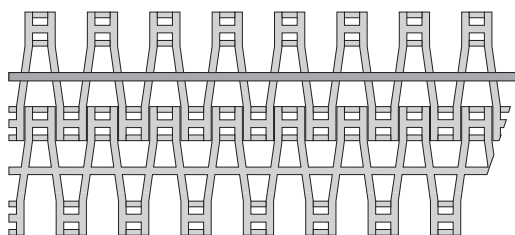
S2-57 GRT PMC

Open version (57%) base module for good drainage

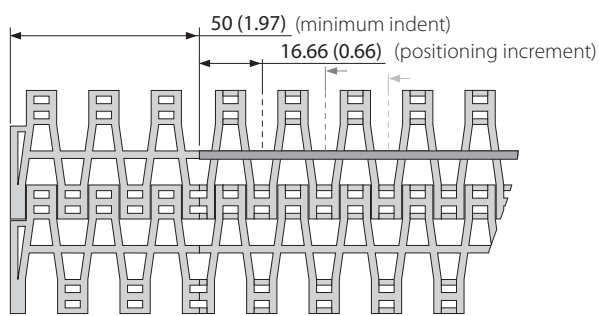


Basic data

Material	Color	Height (h)	
		25 mm 1 inch	50 mm 2 inch
PE	UC	●	●
POM	BL	●	●
POM	UC	●	●
PP	BL	●	●
PP	WT	●	●



Standard configuration S2-57 GRT PMC



Indent configuration S2-57 GRT PMC

■ 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.

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



MOVEMENT SYSTEMS

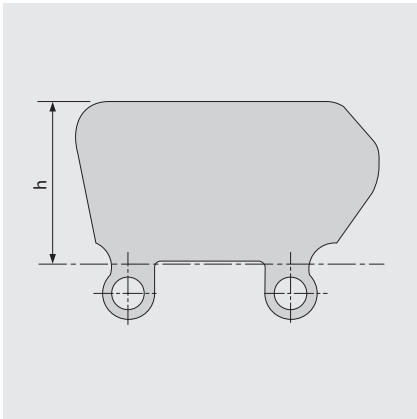
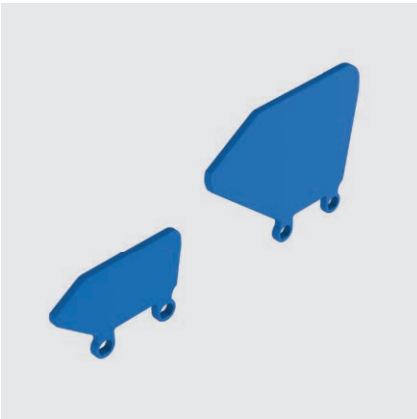
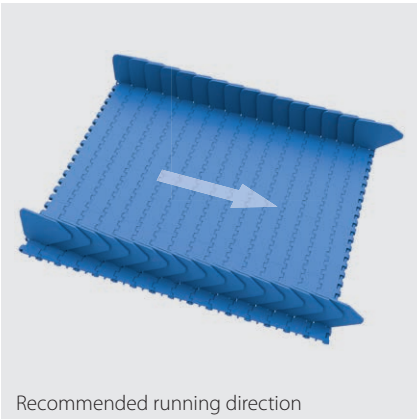
SERIES 2 | SIDE GUARDS

Straight running belt | Pitch 25 mm (0.98 in)

siegling prolink
modular belts

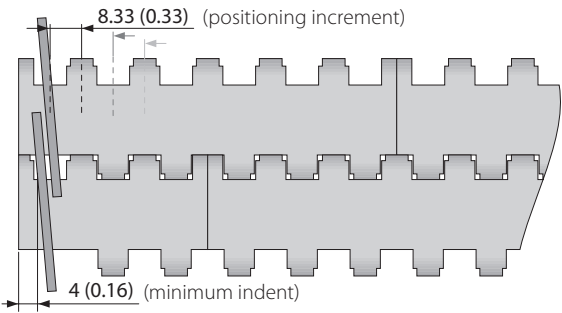
S2 SG | Side guards

For retention of bulk products



Basic data

Material	Color	Height (h)	
		25 mm 1 inch	50 mm 2 inch
PE	BL	●	●
PE	WT	●	●
PP	BL	●	●
PP	WT	●	●



■ BL (Blue), □ WT (White)

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

All imperial dimensions (inches) are rounded off.

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

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.