

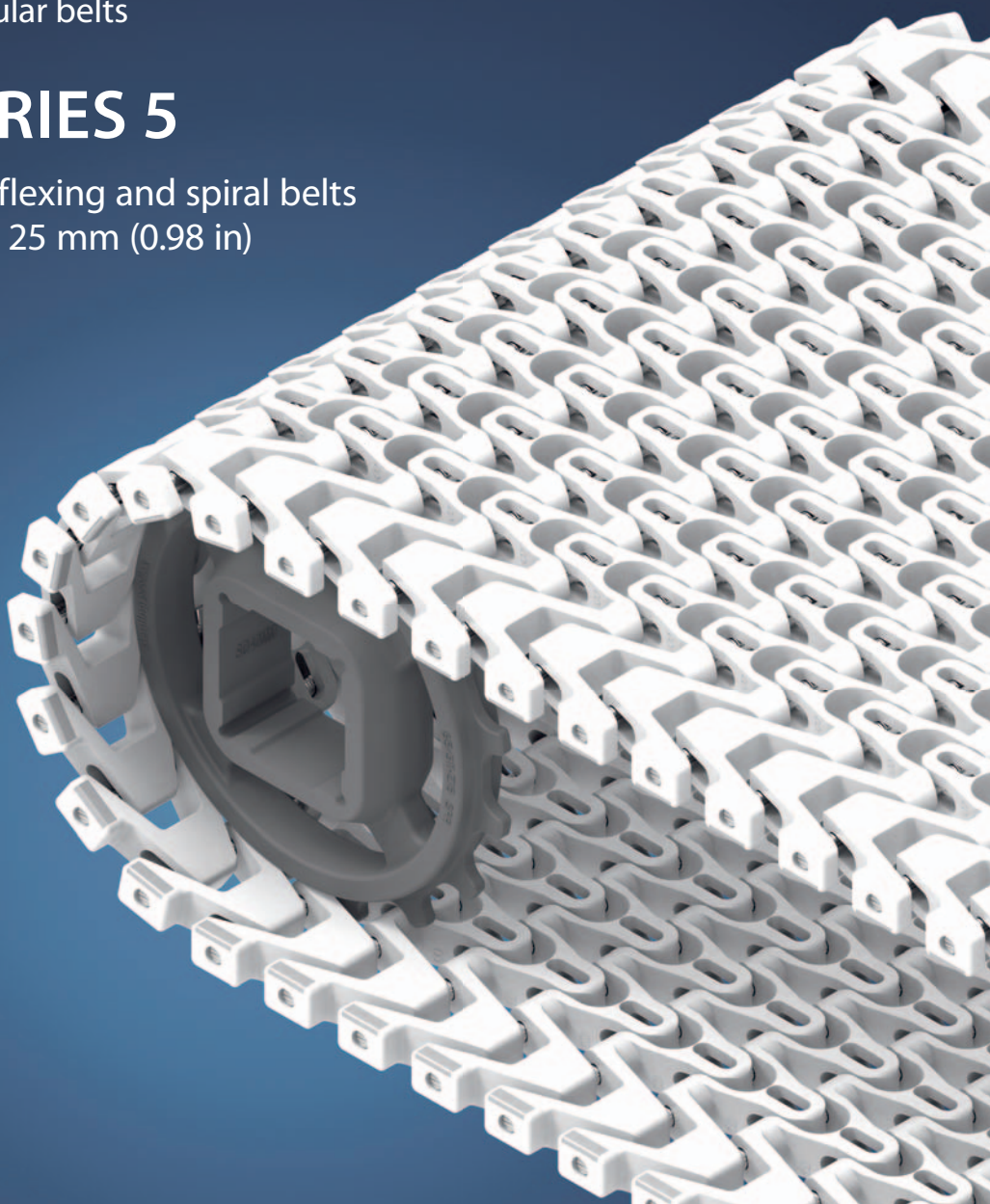
EXCERPT FROM PROLINK ENGINEERING MANUAL

11/22 (Ref-No. 888)

siegling prolink
modular belts

SERIES 5

Side flexing and spiral belts
Pitch 25 mm (0.98 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_S5

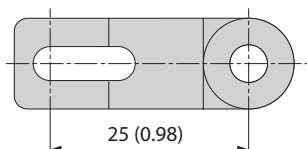
SERIES 5 | OVERVIEW

siegling prolink
modular belts

Side flexing and spiral belts | Pitch 25 mm (0.98 in)

Belts for light to medium-duty food and non-food applications

Side view scale 1:1



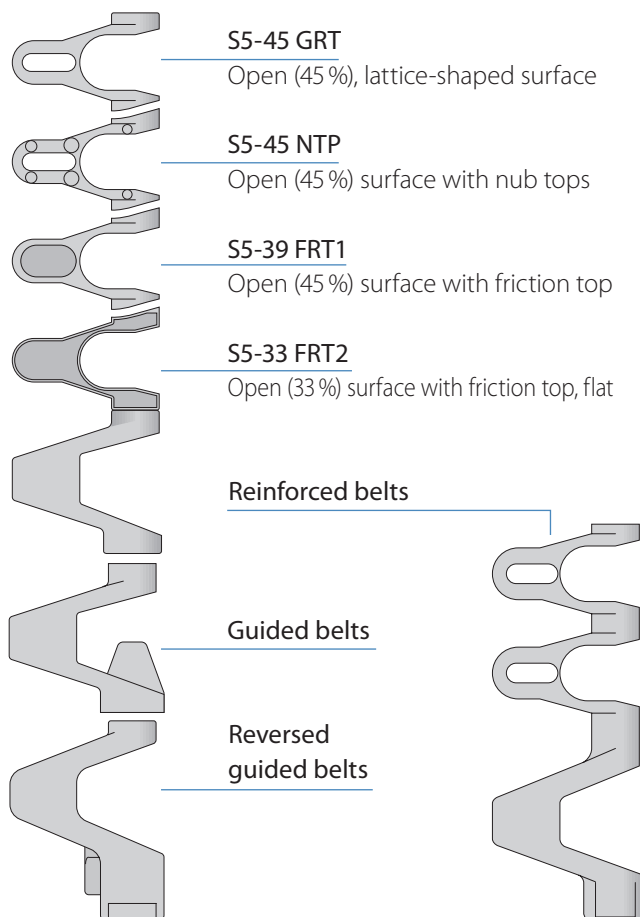
Design characteristics

- Suitable for both straight and radius conveying
- Up to 45 % open area for excellent air circulation and drainage
- Stainless steel hinge pins for high load capacity, lateral stiffness, fewer belt supports and minimum belt lifting in curves
- No potential belt edge catch points due to safe fixing of hinge pins

Basic data

Pitch	25 mm (0.98)
Belt width min.	100 mm (3.9 in), 175 mm (6.9 in) for S5 ST
Width increments	25 mm (0.98)
Hinge pins	5 mm (0.2 in) made of stainless steel

Available surface pattern and opening area



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



Ball-bearing modules

to minimize friction forces at the belt edge



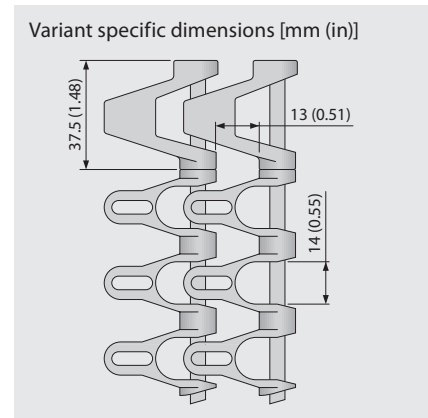
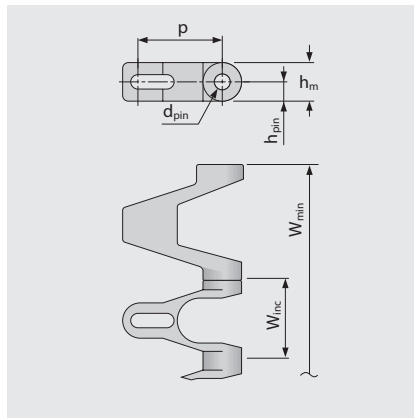
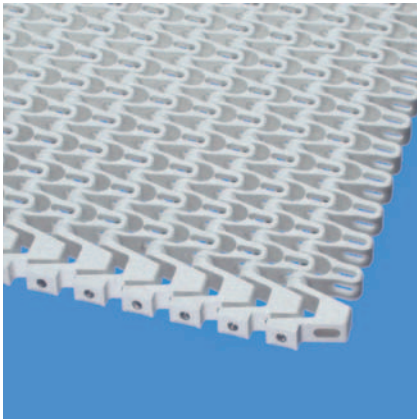
SERIES 5 | BELT TYPES

siebling prolink
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in) | $C_c = 2.0$

S5-45 GRT | 45 % Opening | Grid top

Open area (45 %) for excellent air circulation and drainage | Contact area 42 % (Largest opening: 14 x 13 mm/0.55 x 0.51 in) | Lattice shaped surface | Collapse factor (C_c) = 2.0



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	25.0	5.0	12.0	6.0	0.0	100.0	25.0	±0.3	2 x W _B	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.0	3.94	0.98	±0.3	2 x W _B	0.98	1.97	2.95	0.98

W_B = Belt width, further information regarding r1 see page III-20

Available standard materials⁴⁾

Belt		Pin		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
PE	WT/DB	SS		10	685	NR	NR	11.0	2.25	0.0	-70/65	-94/149	●	●
PP	WT/DB/BL	SS		18	1233	1000	225	10.0	2.05	0.0	5/100	41/212	●	●
POM-CR	WT/DB/BL	SS		25	1713	1800	405	13.0	2.66	0.0	-45/90	-49/194	●	●

Mold to order belts

PA*	BL	SS		20	1370	1440	324	12.8	2.62	0.0	-40/120	-40/248	●	●
-----	----	----	--	----	------	------	-----	------	------	-----	---------	---------	---	---

NR = not recommended

* 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), ■ DB (Dark 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

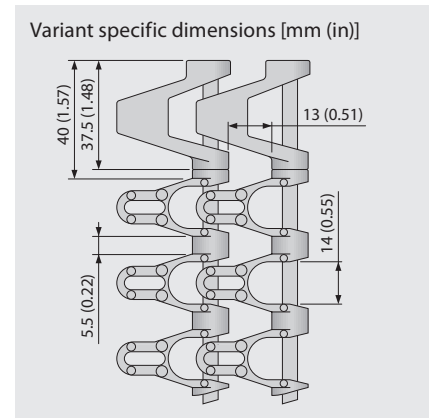
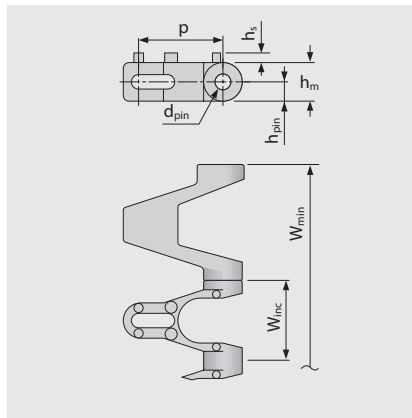
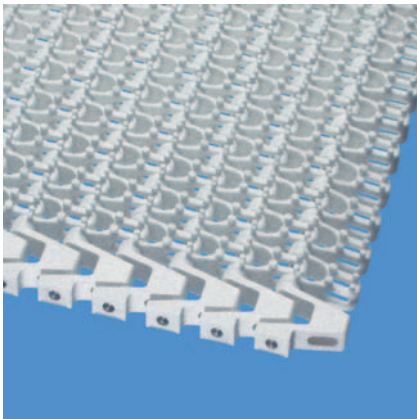
SERIES 5 | BELT TYPES

siebling prolink
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in) | $C_c = 2.0$

S5-45 NTP | 45 % Opening | Nub top (round studs)

Open area (45 %) for excellent air circulation and drainage | Lattice shaped surface with 3.0 mm (0.12 in) high round studs and 8 % contact area | Side modules without NTP-surface | Collapse factor (C_c) = 2.0



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	25.0	5.0	12.0	6.0	3.0	100.0	25.0	±0.3	2 x W _B	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.12	3.94	0.98	±0.3	2 x W _B	0.98	1.97	2.95	0.98

W_B = Belt width, further information regarding r1 see page III-20

Available standard materials⁴⁾

Belt		Pin		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
PP	WT	SS		18	1233	1000	225	10.1	2.07	0.0	5/100	41/212	●	●
POM-CR	WT	SS		25	1713	1800	405	13.1	2.68	0.0	-45/90	-49/194	●	●

Mold to order belts

PE	WT	SS		10	685	NR	NR	11.2	2.29	0.0	-70/65	-94/149	●	●
----	----	----	--	----	-----	----	----	------	------	-----	--------	---------	---	---

NR = not recommended

☐ 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

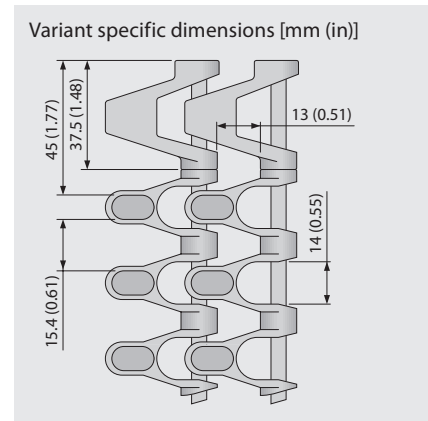
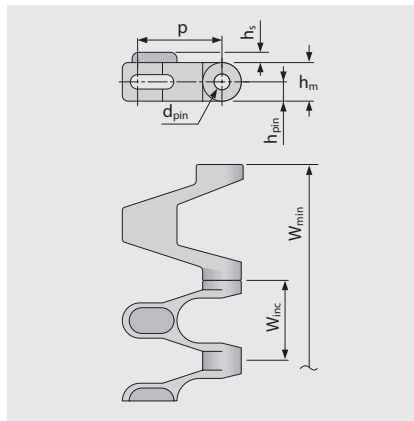
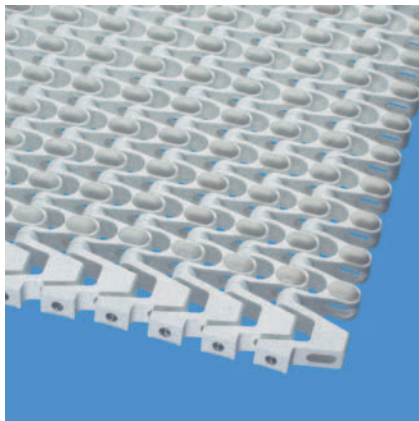
SERIES 5 | BELT TYPES

siebling prolink
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in) | $C_c = 2.0$

S5-39 FRT1 | 39% Opening | Friction top (Design 1)

Excellent air circulation and drainage | Integrated friction pads (raised) increase surface friction and provide gentle grip | Contact area 8% | Side modules without FRT-surface | Collapse factor (C_c) = 2.0



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	25.0	5.0	12.0	6.0	3.2	100.0	25.0	±0.3	2 x W _B	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.13	3.94	0.98	±0.3	2 x W _B	0.98	1.97	2.95	0.98

W_B = Belt width, further information regarding r1 see page III-20

Available standard materials⁴⁾

Belt		Pin		Rubber		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m ²]	[lb/ft ²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
PP	WT	SS		R4	BG	18	1233	1000	225	10.2	2.09	0.0	5/100	41/212	●	●

■ BG (Beige), □ 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

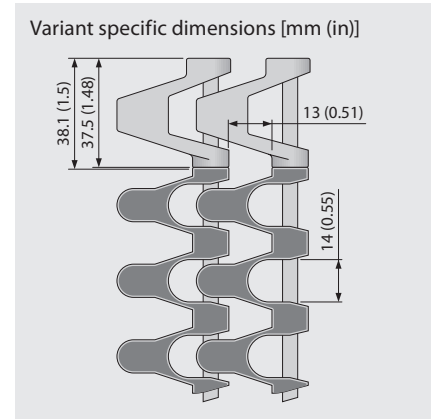
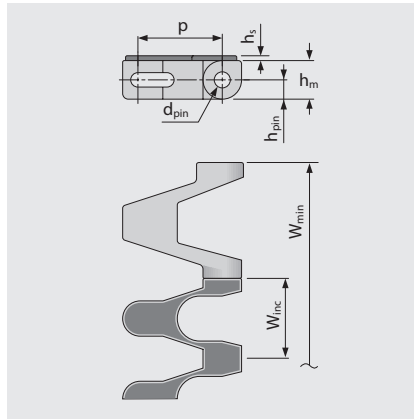
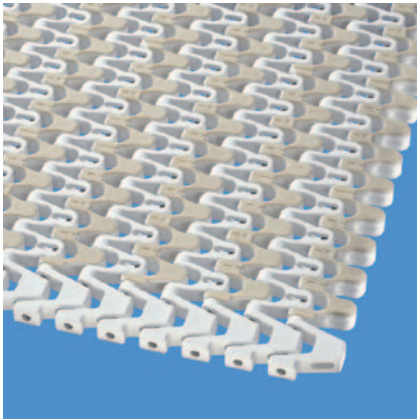
SERIES 5 | BELT TYPES

siebling prolink
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in) | $C_c = 2.0$

S5-33 FRT2 | 33 % Opening | Friction top (Design 2)

Open area (33 % for full FRT2 surface area) for excellent air circulation and drainage | Integrated friction pads (flat) provide gentle grip | Contact area 47 % | Side modules without FRT-surface | Collapse factor (C_c) = 2.0



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	25.0	5.0	12.0	6.0	1.5	100.0	25.0	±0.3	2 x W _B	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.06	3.94	0.98	±0.3	2 x W _B	0.98	1.97	2.95	0.98

W_B = Belt width, further information regarding r1 see page III-20

Available standard materials⁴⁾

Belt		Pin		Rubber		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m ²]	[lb/ft ²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
PP	WT	SS		R7	BG	18	1233	1000	225	11.4	2.33	0.0	5/100	41/212	●	●
PP	BL	SS		R7	BG	18	1233	1000	225	11.4	2.33	0.0	5/100	41/212	●	●
PP	BL	SS		R7	BK	18	1233	1000	225	11.4	2.33	0.0	5/100	41/212	●	●

■ BG (Beige), ■ BK (Black), ■ BL (Blue), ■ WT (White)

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

All imperial dimensions (inches) are rounded off.

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

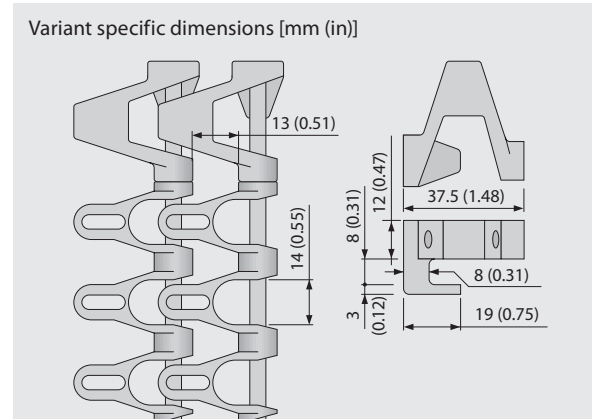
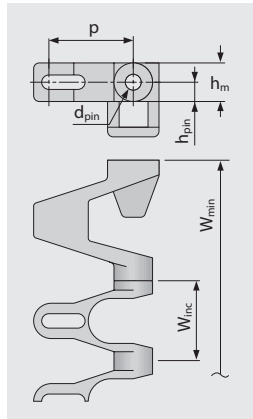
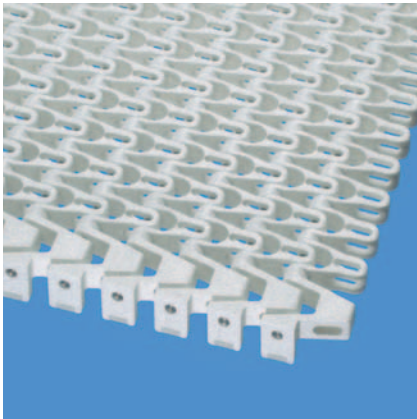
SERIES 5 | BELT TYPES

siebling prolink
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in) | $C_c = 2.0$

S5-45 GRT G | 45 % Opening | Grid top · guided

Excellent air circulation and drainage | Contact area 42 % (Largest opening: 14 x 13 mm/0.55 x 0.51 in) | Lattice shaped surface and Hold Down Tabs | Allows utilization of the entire belt width | Collapse factor (C_c) = 2.0



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	25.0	5.0	12.0	6.0	0.0	100.0	25.0	±0.3	2 x W _B	50.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.0	3.94	0.98	±0.3	2 x W _B	1.97	1.97	2.95	0.98

W_B = Belt width, further information regarding r1 see page III-20

Available standard materials⁴⁾

Belt		Pin		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
POM-CR	WT	SS		25	1713	1800	405	13.0	2.66	0.0	-45/90	-49/194	●	●
POM-CR	BL	SS		25	1713	1800	405	13.0	2.66	0.0	-45/90	-49/194	●	●
POM-CR	DB	SS		25	1713	1800	405	13.0	2.66	0.0	-45/90	-49/194	●	●
PP	WT	SS		18	1233	1000	225	10.0	2.05	0.0	5/100	41/212	●	●

Mold to order belts

PE	WT	SS		10	685	NR	NR	11.0	2.25	0.0	-70/65	-94/149	●	●
PA*	BL	SS		20	1370	1440	324	12.8	2.62	0.0	-40/120	-40/248	●	●

NR = not recommended

* 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), ■ DB (Dark 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

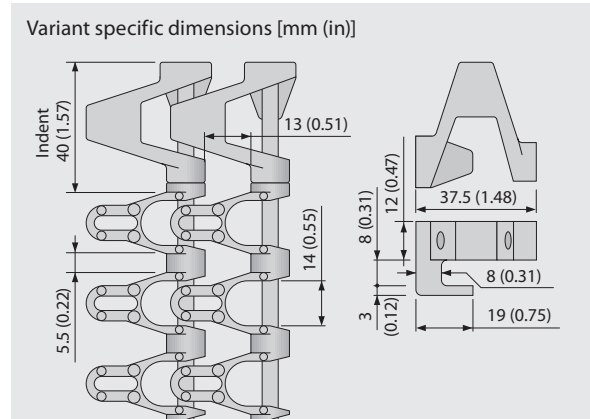
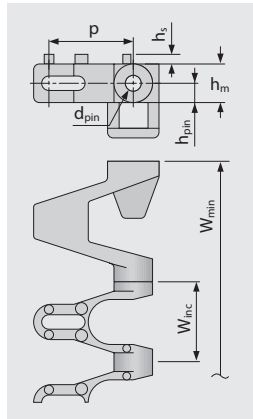
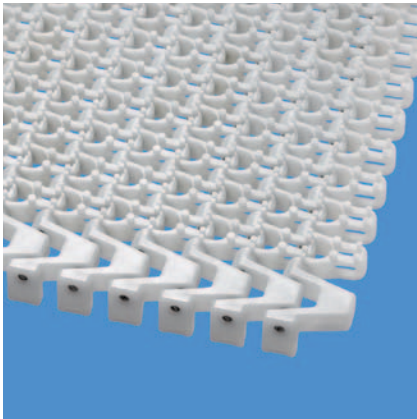
SERIES 5 | BELT TYPES

siebling prolink
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in) | $C_c = 2.0$

S5-45 NTP G | 45 % Opening | Nub top (round studs) · guided

Open area (45 %) for excellent air circulation and drainage | Lattice shaped surface with 3.0 mm (0.12 in) high round studs and 8 % contact area | Side modules without NTP-surface | Allows utilization of the entire belt width | Collapse factor (C_c) = 2.0



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	25.0	5.0	12.0	6.0	3.0	100.0	25.0	±0.3	2 x W _B	50.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.12	3.94	0.98	±0.3	2 x W _B	1.97	1.97	2.95	0.98

W_B = Belt width, further information regarding r1 see page III-20

Available standard materials⁴⁾

Belt		Pin		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
POM-CR	WT	SS		25	1713	1800	405	13.2	2.70	0.0	-45/90	-49/194	●	●
PP	WT	SS		18	1233	1000	225	10.2	2.09	0.0	5/100	41/212	●	●

□ 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

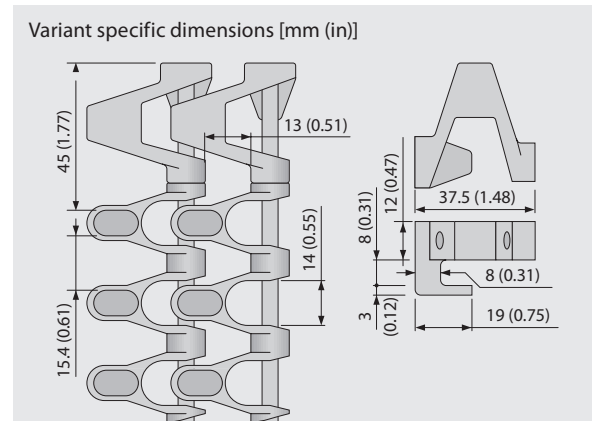
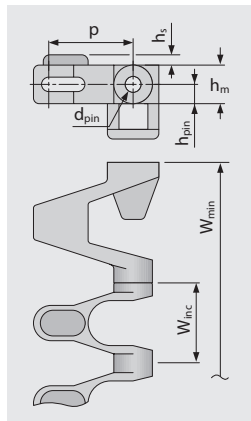
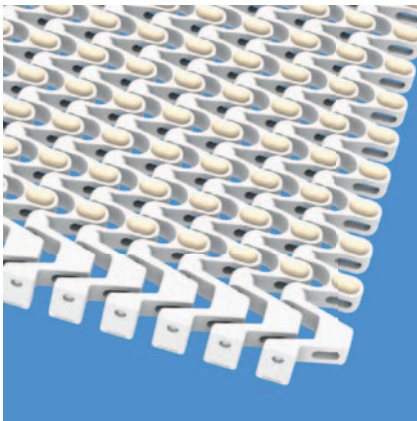
SERIES 5 | BELT TYPES

siebling prolink
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in) | $C_c = 2.0$

S5-39 FRT1 G | 39% Opening | Friction top (Design 1) · guided

Excellent air circulation and drainage | Integrated friction pads (raised) increase surface friction and provide gentle grip | Allows utilization of the entire belt width | Side modules without FRT-surface | Collapse factor (C_c) = 2.0



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	25.0	5.0	12.0	6.0	3.2	100.0	25.0	±0.3	2 x W _B	50.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.13	3.94	0.98	±0.3	2 x W _B	1.97	1.97	2.95	0.98

W_B = Belt width, further information regarding r1 see page III-20

Available standard materials⁴⁾

Belt		Pin		Rubber		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m ²]	[lb/ft ²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
PP	WT	SS		R4	BG	18	1233	1000	225	10.2	2.09	0.0	5/100	41/212	●	●

■ BG (Beige), □ 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

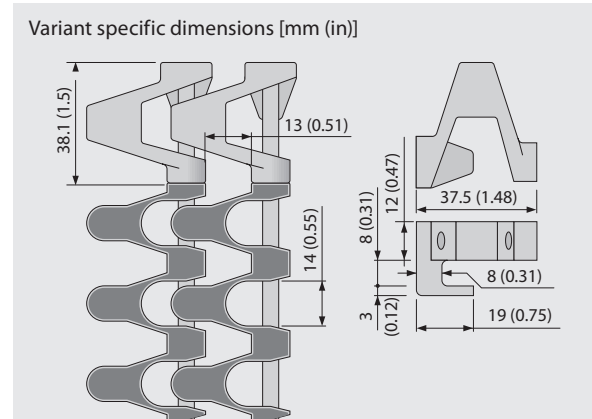
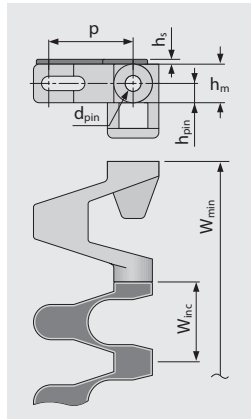
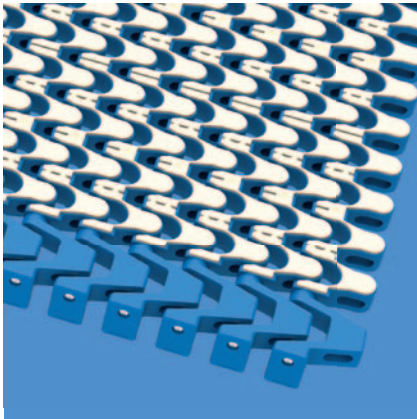
SERIES 5 | BELT TYPES

siebling prolink
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in) | $C_c = 2.0$

S5-33 FRT2 G | 33 % Opening | Friction top (Design 2) · guided

Open area (33 % for full FRT2 surface area) for excellent air circulation and drainage | Contact area 47 % | Integrated friction pads (flat) provide gentle grip | Allows utilization of the entire belt width | Side modules without FRT-surface | Collapse factor (C_c) = 2.0



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	25.0	5.0	12.0	6.0	1.5	100.0	25.0	±0.3	2 x W _B	50.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.06	3.94	0.98	±0.3	2 x W _B	1.97	1.97	2.95	0.98

W_B = Belt width, further information regarding r1 see page III-20

Available standard materials⁴⁾

Belt		Pin		Rubber		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m ²]	[lb/ft ²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
PP	WT	SS		R7	BG	18	1233	1000	225	11.4	2.33	0.0	5/100	41/212	●	●
PP	BL	SS		R7	BG	18	1233	1000	225	11.4	2.33	0.0	5/100	41/212	●	●
PP	BL	SS		R7	BK	18	1233	1000	225	11.4	2.33	0.0	5/100	41/212	●	●

■ BG (Beige), ■ BK (Black), ■ BL (Blue), ■ WT (White)

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

All imperial dimensions (inches) are rounded off.

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

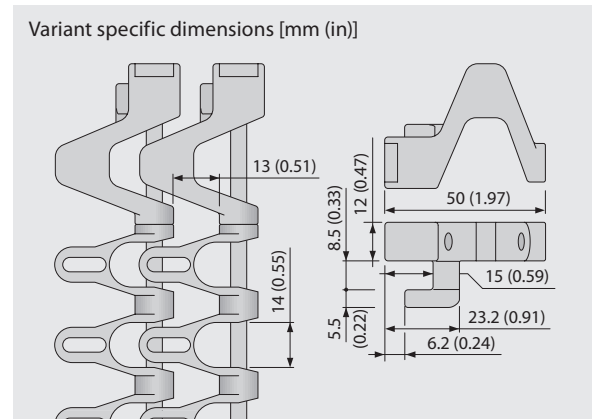
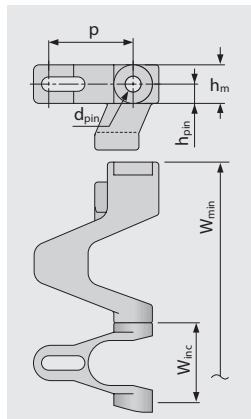
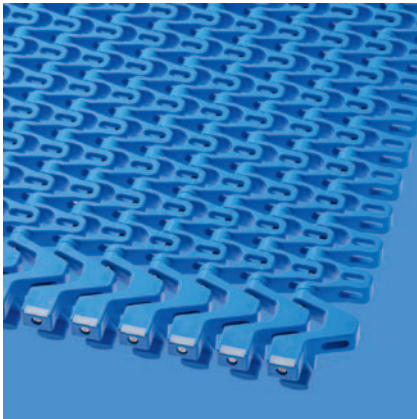
SERIES 5 | BELT TYPES

siebling prolink
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in) | $C_c = 2.0$

S5-45 GRT RG | 45 % Opening | Grid top · reverse guided

Excellent air circulation and drainage | Lattice shaped surface and reversed Hold Down Tabs | Contact area 42 % (Largest opening: 14 x 13 mm/0.55 x 0.51 in) | Smooth surface | Allows utilization of the entire belt width | Collapse factor (C_c) = 2.0



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	25.0	5.0	12.0	6.0	0.0	125.0	25.0	±0.3	2 x W _B	50.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.0	4.92	0.98	±0.3	2 x W _B	1.97	1.97	2.95	0.98

W_B = Belt width, further information regarding r1 see page III-20

Available standard materials⁴⁾

Belt		Pin		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
POM-CR	BL	SS		25	1713	2100	472	13.0	2.66	0.0	-45/90	-49/194	●	●
Mold to order belts														
PE	WT	SS		10	685	NR	NR	11.0	2.25	0.0	-70/65	-94/149	●	●
PP	WT	SS		18	1233	1200	270	10.0	2.05	0.0	5/100	41/212	●	●

NR = not recommended

■ 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

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

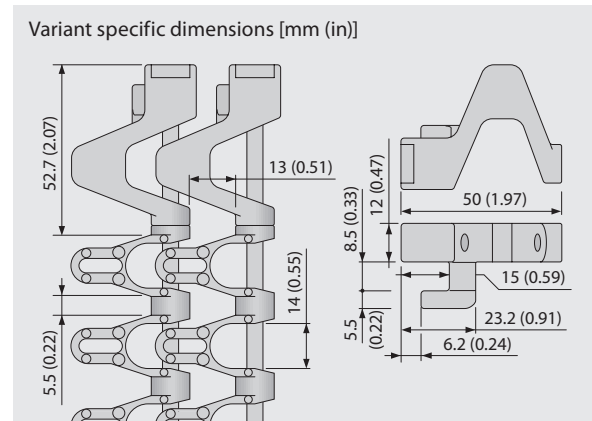
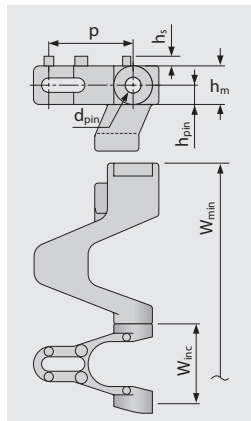
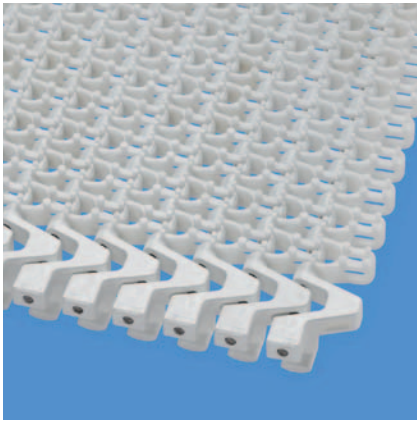
SERIES 5 | BELT TYPES

siebling prolink
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in) | $C_c = 2.0$

S5-45 NTP RG | 45 % Opening | Nub top (round studs) · reverse guided

Excellent air circulation and drainage | With round studs for increased grip (8% contact area) | Allows utilization of the entire belt width | Side modules only available without NTP-pattern | Collapse factor (C_c) = 2.0



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	25.0	5.0	12.0	6.0	3.0	125.0	25.0	±0.3	2 x W _B	50.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.12	4.92	0.98	±0.3	2 x W _B	1.97	1.97	2.95	0.98

W_B = Belt width, further information regarding r1 see page III-20

Mold to order belts⁴⁾

Belt		Pin		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
POM-CR	WT	SS		25	1713	2100	472	13.2	2.7	0.0	-45/90	-49/194	●	●

□ 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

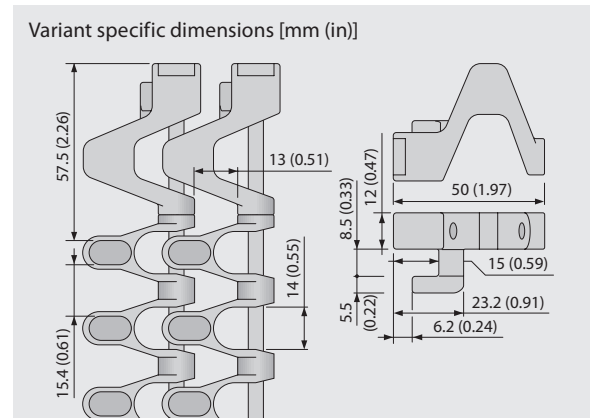
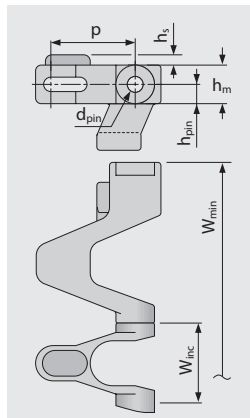
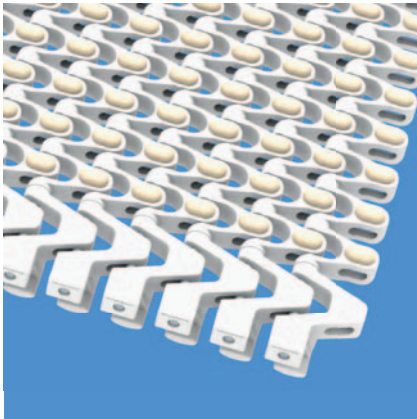
SERIES 5 | BELT TYPES

siegling prolink
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in) | $C_c = 2.0$

S5-39 FRT1 RG | 39% Opening | Friction top (Design 1) · reverse guided

Excellent air circulation and drainage | Integrated friction pads (raised) increase surface friction and provide gentle grip | Allows utilization of the entire belt width | Side modules without FRT-surface | Collapse factor (C_c) = 2.0



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	25.0	5.0	12.0	6.0	3.2	125.0	25.0	±0.3	2 x W _B	50.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.13	4.92	0.98	±0.3	2 x W _B	1.97	1.97	2.95	0.98

W_B = Belt width, further information regarding r1 see page III-20

Mold to order belts⁴⁾

Belt		Pin		Rubber		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m ²]	[lb/ft ²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
POM-CR-PP	WT	SS		R4	BG	18	1233	2100	472	10.2	2.09	0.0	-45/90	-49/194	●	●

■ BG (Beige), □ 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

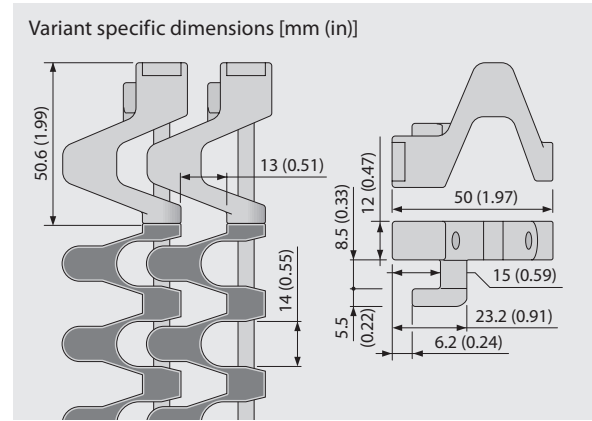
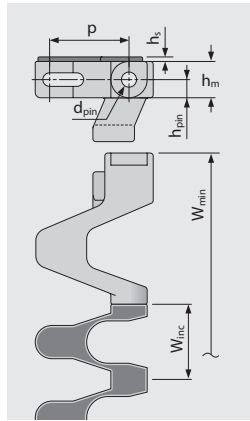
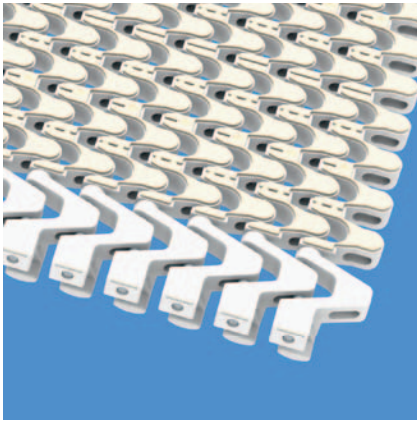
SERIES 5 | BELT TYPES

siebling prolink
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in) | $C_c = 2.0$

S5-33 FRT2 RG | 33 % Opening | Friction top (Design 2) · reverse guided

Open area (33 % for full FRT2 surface area) for excellent air circulation and drainage | Contact area 47 % | Integrated friction pads (flat) provide gentle grip | Allows utilization of the entire belt width | Side modules without FRT-surface | Collapse factor (C_c) = 2.0



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	25.0	5.0	12.0	6.0	1.5	125.0	25.0	±0.3	2 x W _B	50.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.06	4.92	0.98	±0.3	2 x W _B	1.97	1.97	2.95	0.98

W_B = Belt width, further information regarding r1 see page III-20

Mold to order belts⁴⁾

Belt		Pin		Rubber		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m ²]	[lb/ft ²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
POM-CR-PP	BL	SS		R7	BG	18	1233	2100	472	11.4	2.33	0.0	-45/90	-49/194	●	●
POM-CR-PP	WT	SS		R7	BG	18	1233	2100	472	11.4	2.33	0.0	-45/90	-49/194	●	●
POM-CR-PP	BL	SS		R7	BK	18	1233	2100	472	11.4	2.33	0.0	-45/90	-49/194	●	●

■ BG (Beige), ■ BK (Black), ■ BL (Blue), ■ WT (White)

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

All imperial dimensions (inches) are rounded off.

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

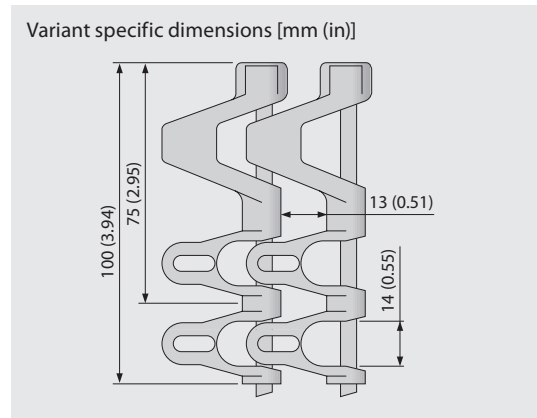
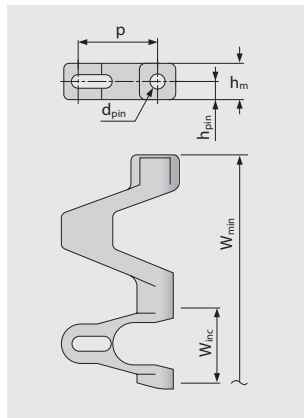
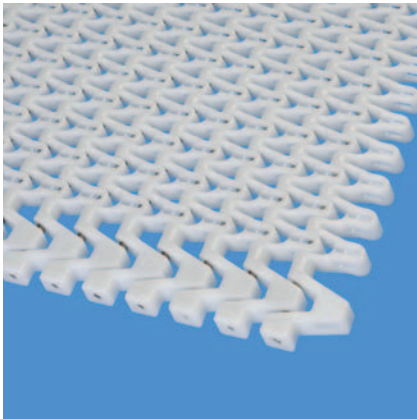
SERIES 5 | BELT TYPES

siebling prolink
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in) | $C_c = 2.0$

S5-45 GRT ST | 45 % Opening | Grid top · strong

Excellent air circulation and drainage | Lattice shaped surface | Version with reinforced brick-laid side modules (75 mm/2.9 in and 100 mm/3.9 in) increases belt pull capacity | Collapse factor (C_c) = 2.0



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	25.0	5.0	12.0	6.0	0.0	175.0	25.0	±0.3	2 x W _B	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.0	6.89	0.98	±0.3	2 x W _B	0.98	1.97	2.95	0.98

W_B = Belt width, further information regarding r1 see page III-20

Available standard materials⁴⁾

Belt		Pin		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
PP	WT	SS		18	1233	1200	270	10.2	2.09	0.0	5/100	41/212	●	●
PP	DB	SS		18	1233	1200	270	10.2	2.09	0.0	5/100	41/212	●	●
PP	BL	SS		18	1233	1200	270	10.2	2.09	0.0	5/100	41/212	●	●
POM-CR	WT	SS		25	1713	2100	472	13.2	2.7	0.0	-45/90	-49/194	●	●
POM-CR	DB	SS		25	1713	2100	472	13.2	2.7	0.0	-45/90	-49/194	●	●
POM-CR	BL	SS		25	1713	2100	472	13.2	2.7	0.0	-45/90	-49/194	●	●
Mold to order belts														
PE	WT	SS		10	685	NR	NR	11.1	2.27	0.0	-70/65	-94/149	●	●
PA*	BL	SS		20	1370	1680	378	13.0	2.66	0.0	-40/120	-40/248	●	●

NR = not recommended

* 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), ■ DB (Dark 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

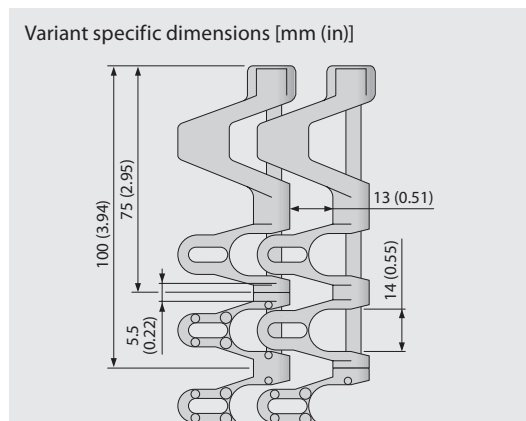
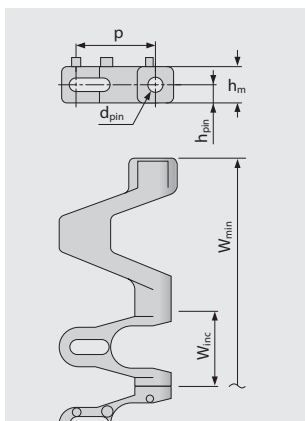
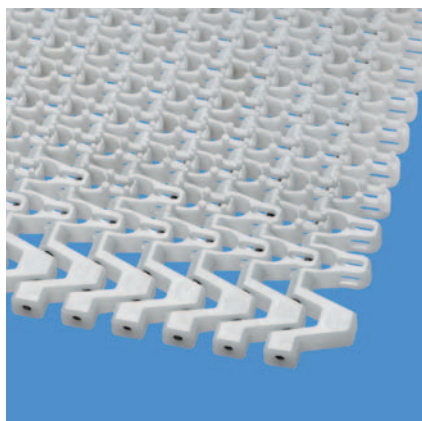
SERIES 5 | BELT TYPES

siebling prolink
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in) | $C_c = 2.0$

S5-45 NTP ST | 45 % Opening | Nub top (round studs) · strong

Excellent air circulation and drainage | With round studs for increased grip (8 % contact area) | Version with reinforced brick-laid side modules increases belt pull capacity | Side modules only available without NTP-pattern | Collapse factor (C_c) = 2.0



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	25.0	5.0	12.0	6.0	3.0	175.0	25.0	±0.3	2 x W _B	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.12	6.89	0.98	±0.3	2 x W _B	0.98	1.97	2.95	0.98

W_B = Belt width, further information regarding r1 see page III-20

Available standard materials⁴⁾

Belt		Pin		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m ²]	[lb/ft ²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
PP	WT	SS		18	1233	1200	270	10.2	2.09	0.0	5/100	41/212	●	●

□ 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

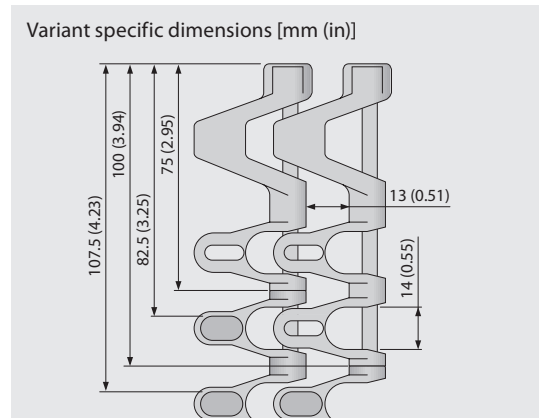
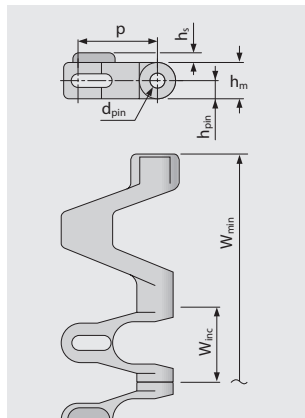
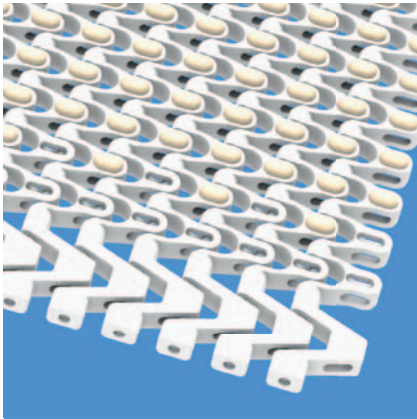
SERIES 5 | BELT TYPES

siebling prolink
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in) | $C_c = 2.0$

S5-39 FRT1 ST | 39% Opening | Friction top (Design 1) · strong

Excellent air circulation and drainage | Integrated friction pads (raised) increase surface friction and provide gentle grip | Reinforced side modules increase belt pull capacity | Side modules without FRT-surface | Collapse factor (C_c) = 2.0



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	25.0	5.0	12.0	6.0	3.2	175.0	25.0	±0.3	2 x W _B	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.13	6.89	0.98	±0.3	2 x W _B	0.98	1.97	2.95	0.98

W_B = Belt width, further information regarding r1 see page III-20

Available standard materials⁴⁾

Belt		Pin		Rubber		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m ²]	[lb/ft ²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
PP	WT	SS		R4	BG	18	1233	1200	270	10.2	2.09	0.0	5/100	41/212	●	●

■ BG (Beige), □ 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

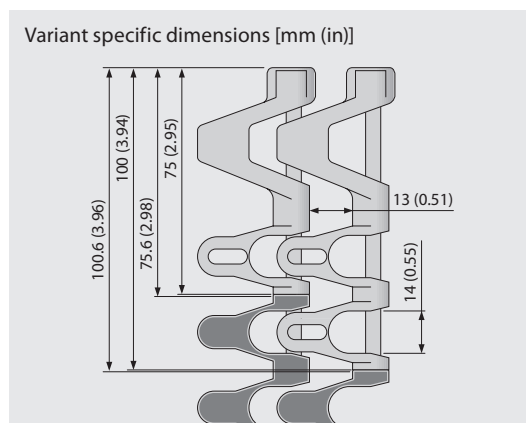
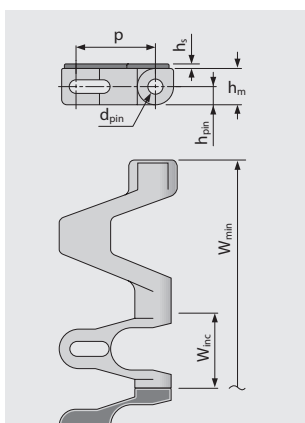
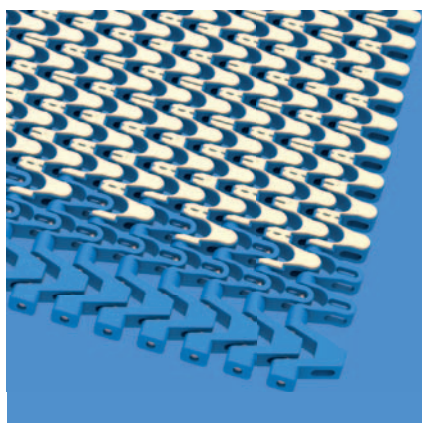
SERIES 5 | BELT TYPES

siegling prolink
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in) | $C_c = 2.0$

S5-33 FRT2 ST | 33 % Opening | Friction top (Design 2) · strong

Open area (33 % for full FRT2 surface area) for excellent air circulation and drainage | Contact area 47 % | Lattice shaped surface | Version with reinforced brick-laid side modules increases belt pull capacity | Collapse factor (C_c) = 2.0



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	25.0	5.0	12.0	6.0	1.5	175.0	25.0	±0.3	2 x W _B	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.06	6.89	0.98	±0.3	2 x W _B	0.98	1.97	2.95	0.98

W_B = Belt width, further information regarding r1 see page III-20

Available standard materials⁴⁾

Belt		Pin		Rubber		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m ²]	[lb/ft ²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
PP	BL	SS		R7	BG	18	1233	1200	270	11.4	2.33	0.0	5/100	41/212	●	●
PP	WT	SS		R7	BG	18	1233	1200	270	11.4	2.33	0.0	5/100	41/212	●	●
PP	BL	SS		R7	BK	18	1233	1200	270	11.4	2.33	0.0	5/100	41/212	●	●

Comment: ST types combinable with standard center curve modules, NTP, FRT.

ST types not combinable with Guided (G), Side Guards (SG) or Bearing Tab (BT). Please contact us should you require small curve radii.

■ BG (Beige), □ 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

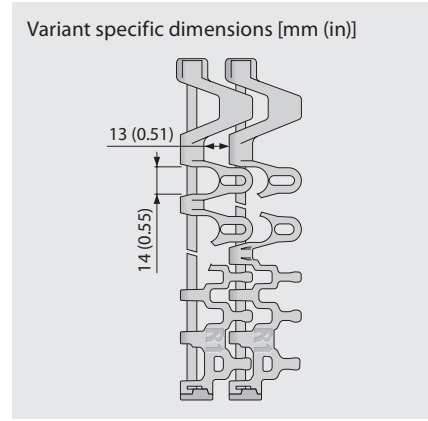
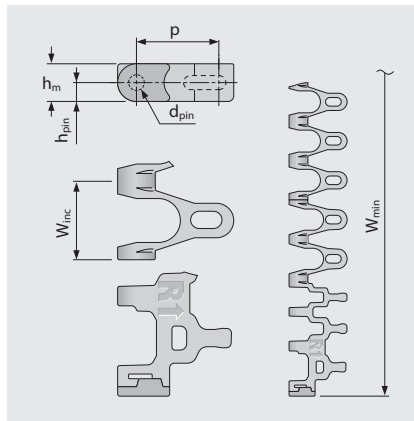
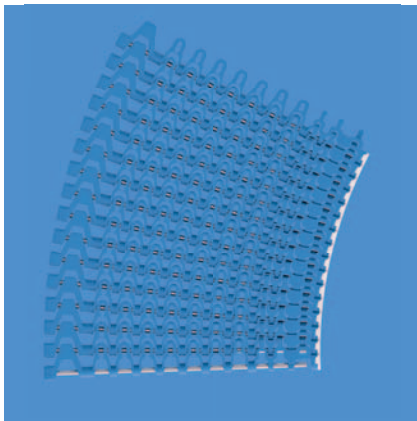
S5 COMBO | BELT TYPES

siebling prolink
modular belts

Side flexing belt | Pitch 25 mm (0.98 in) | $C_c = 1.45$

S5 ST/S11-45 GRT CW | 45 % Opening | Grid top | Clockwise or right hand curve

Combination of high belt pull capacity and small radii in one directional curve layouts | Excellent air circulation and drainage | 42 % contact area (Largest opening: 14 x 13 mm/0.55 x 0.51 in) | Lattice shaped surface | SS pins for high stiffness | Collapse factor (C_c) = 1.45



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	25.0	5.0	12.0	6.0	0.0	175.0	25.0	±0.3	1.45 x W _B	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.0	6.89	0.98	±0.3	1.45 x W _B	0.98	1.97	2.95	0.98

W_B = Belt width, further information regarding r1 see page III-20

Available standard materials⁴⁾

Belt		Pin		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
PP	WT	SS		18	1233	1200	270	10.2	2.09	0.2	5/100	41/212	●	●
PP	BL	SS		18	1233	1200	270	10.2	2.09	0.2	5/100	41/212	●	●
POM-CR	WT	SS		25	1713	2100	472	13.2	2.70	0.0	-45/90	-49/194	●	●
POM-CR	BL	SS		25	1713	2100	472	13.2	2.70	0.0	-45/90	-49/194	●	●
PA*	BL	SS		20	1370	1680	378	13.0	2.66	0.6	-40/120	-40/248	●	●

* 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), □ 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 5 | BELT TYPES

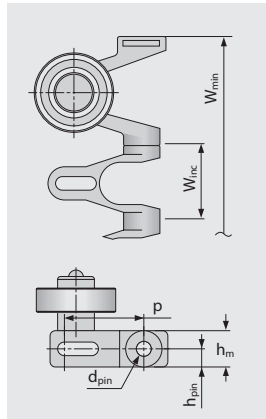
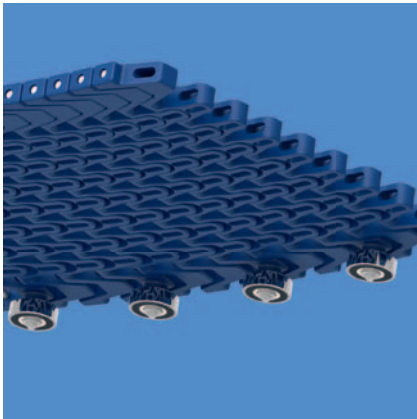
siegling prolink
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in) | $C_c = 2.0$

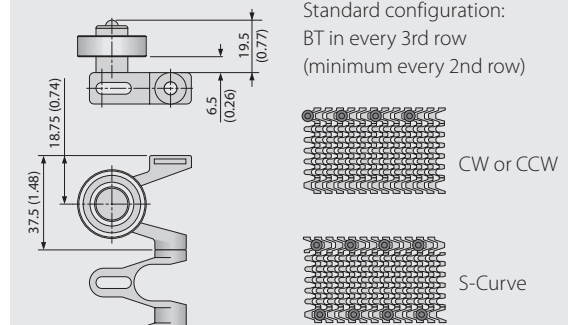
S5-45 GRT BT | 45 % Opening | Bearing Tab Module*

Ball-bearing support to minimize friction force at the belt edge (high speed, reduce dust, save energy) |
Collapse factor (C_c) = 2.0

* The modules will be delivered without ball-bearings. Ball-bearing DIN 625-6000 2RS (or similar) could be used.



Variant specific dimensions [mm (in)]



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	25.0	5.0	12.0	6.0	0.0	100.0	25.0	±0.3	2 x W _B	50.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.0	3.94	0.98	±0.3	2 x W _B	1.97	1.97	2.95	0.98

W_B = Belt width, further information regarding r1 see page III-20

Available standard materials⁴⁾

Belt		Pin		Nominal belt pull, straight		Nominal belt pull, curve		Weight**		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m ²]	[lb/ft ²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
POM-CR	DB	SS		25	1713	1800	405	13.0	2.66	0.0	-45/90	-49/194	●	●

** Belt weight: Please calculate 18 g extra for each ball-bearing

Additional information

Compatible belt types: S5-45 GRT / NTP / (FRT1 / FRT2 in PP)

Friction coefficient in curve: 0.04

Standard belt configuration: BT in every 3rd row (min. every 2nd row). CCW and CW → BT on the outside of the curve. S-curve → BT on both sides.
Reduced spacing will improve smooth belt running behaviour

Smallest sprocket size: Depends on belt configuration (BT every 2nd row → min. sprocket Z11 – only with RD hub)

■ DB (Dark 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

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



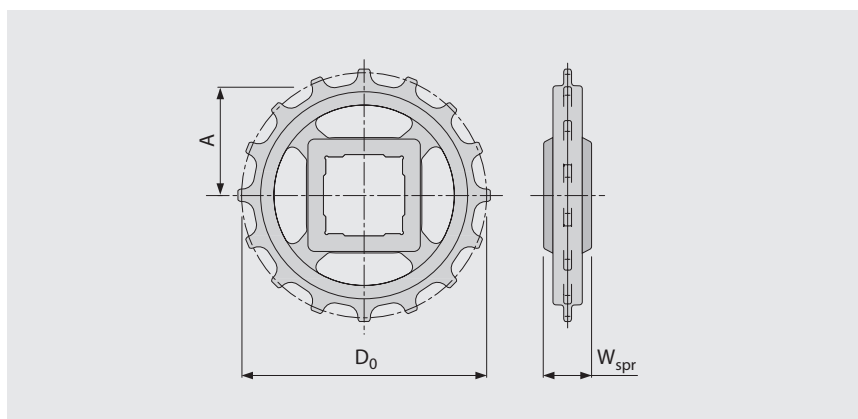
MOVEMENT SYSTEMS

SERIES 5 | SPROCKETS

siegling prolink
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in)

S5 SPR | Sprockets



Main dimensions

Sprocket size (Number of teeth)		Z6	Z9	Z11	Z12	Z16	Z18	Z20
W _{spr}	mm	24.0	24.0	24.0	24.0	24.0	24.0	24.0
	inch	0.94	0.94	0.94	0.94	0.94	0.94	0.94
D ₀	mm	49.6	72.6	88.0	95.8	127.2	142.8	158.5
	inch	1.95	2.86	3.46	3.77	5.01	5.62	6.24
A _{max}	mm	18.8	30.3	38.0	41.9	57.6	65.4	73.3
	inch	0.74	1.19	1.50	1.65	2.27	2.57	2.89
A _{min}	mm	16.3	28.5	36.5	40.5	56.5	64.4	72.4
	inch	0.64	1.12	1.44	1.59	2.22	2.54	2.85

Shaft bores (● = Round, ■ = Square; ○/□ = not possible with S5 RG and G belts)

25	mm		●/□	●	●/■	●	●	●
30	mm		●/□	●	●	●	●	●
40	mm			□	●/■	●/■	●/■	●/■
0.75	inch	○						
1	inch		●/□	●	●/■	●	●	●
1.25	inch		●/□	●	●	●	●	●
1.5	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

Sprocket installation see chapter 5.2



MOVEMENT SYSTEMS

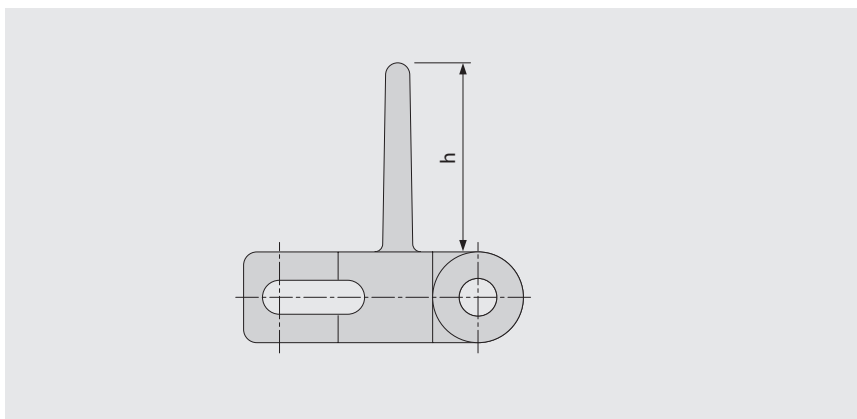
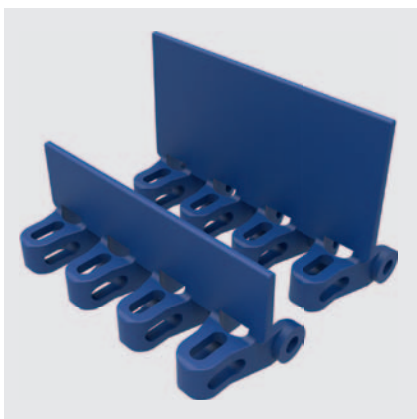
SERIES 5 | PROFILES

siegling prolink
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in)

S5-45 GRT PMC

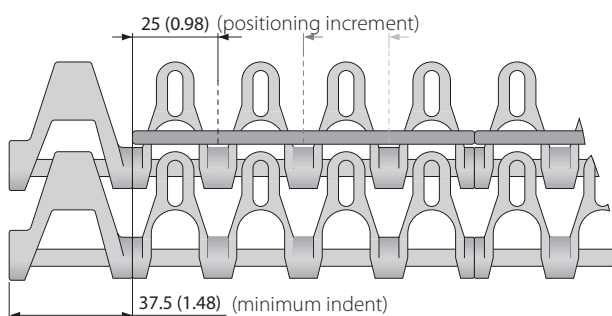
Open version (45 %) base module for drainage



Basic data

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

Molded width: 100 mm (3.9 in)



PMC also available
for G, RG, ST types.

G = Indent 37.5 (1.48)

RG = Indent 50 (1.97)

ST = Indent 75 (2.95)

■ 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.

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



MOVEMENT SYSTEMS

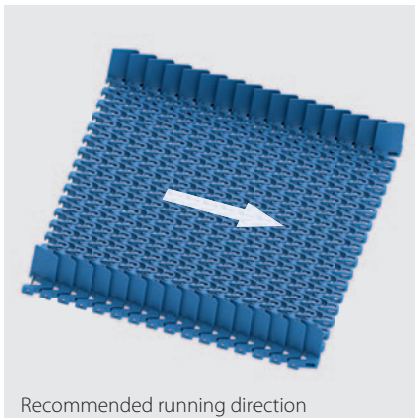
SERIES 5 | SIDE GUARDS

siegling prolink
modular belts

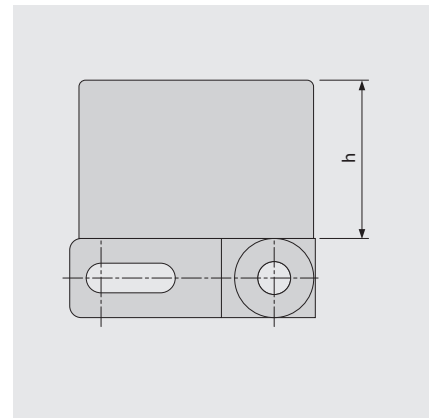
Side flexing and spiral belt | Pitch 25 mm (0.98 in)

S5 SG | Side guards

For retention of bulk products

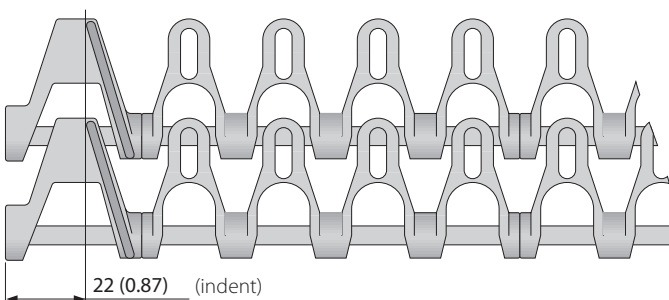


Recommended running direction



Basic data

Material	Color	Height (h)	
		25 mm 1 inch	50 mm 2 inch
POM-CR	BL		●
POM-CR	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.



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.