

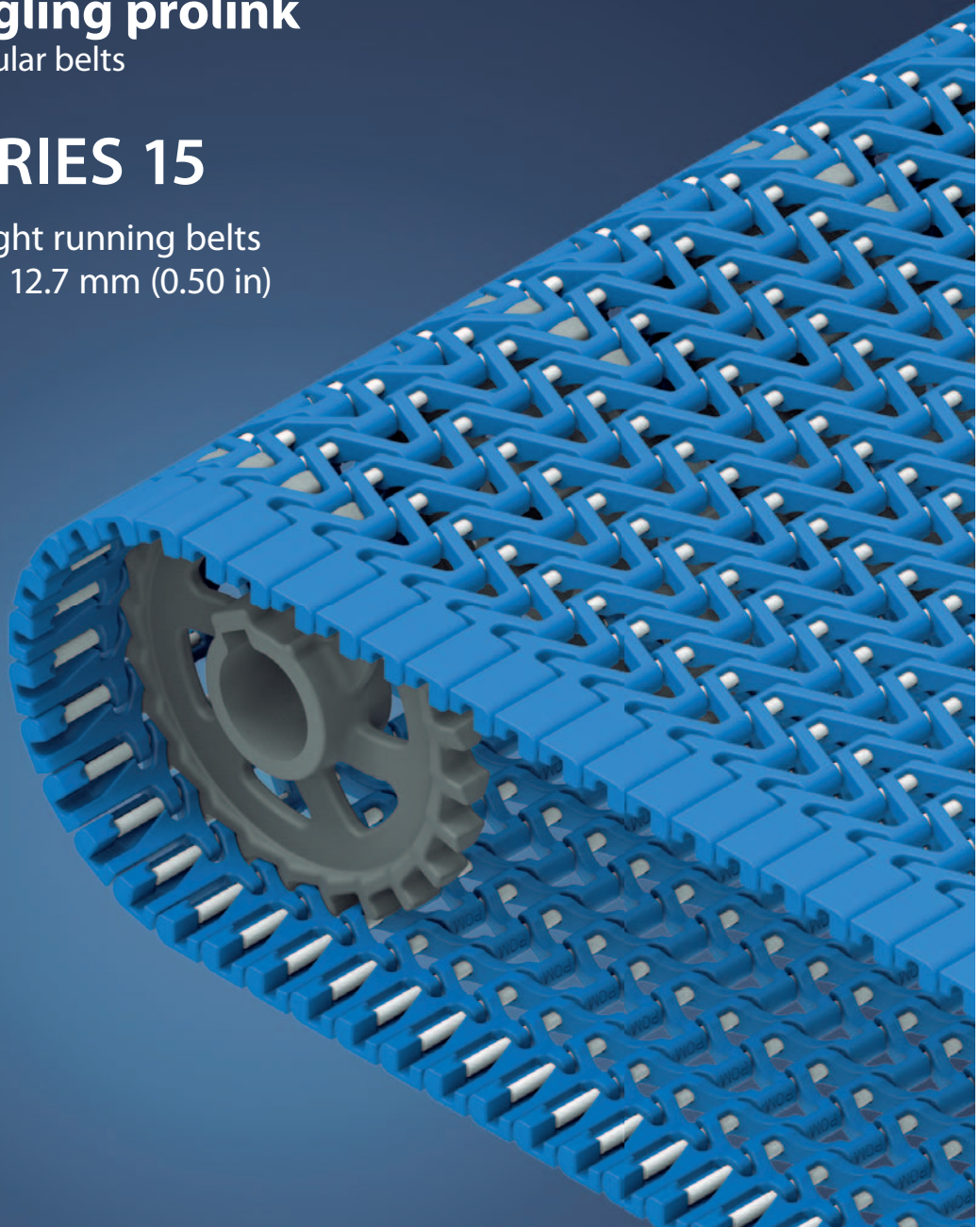
EXCERPT FROM PROLINK ENGINEERING MANUAL

05/23 (Ref-No. 888)

siegling prolink
modular belts

SERIES 15

Straight running belts
Pitch 12.7 mm (0.50 in)



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Ref. no. 888-2_1.2_S15

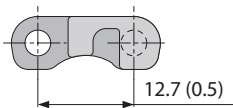
SERIES 15 | OVERVIEW

siegling prolink
modular belts

Straight running belts | Pitch 12.7 mm (0.50 in)

Belts for light-duty food applications utilizing 12.7 mm (0.5 in) nose bars

Side view scale 1:1



Design characteristics

- Mini-pitch belt with large open area for optimum airflow
- Scalloped underside facilitates smooth product transfer over a 12.7 mm (0.5 in) diameter nose bar.
- Open hinge for improved sanitation
- Narrow 25 mm (1 in) width increments offer superior support of conveyed products
- Solid and robust edge design incorporating improved pin retention
- Headless one-piece pin for easy installation and removal
- Sprockets with large solid tooth insures superior load transmission and long wear life

Basic data

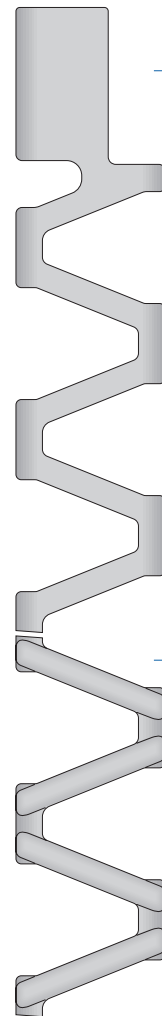
Pitch	12.7 mm (0.50 in)
Belt width min.	203.2 mm (8 in)
Width increments	25.4 mm (1 in)
Hinge pins	3.4 mm (0.13 in) made of plastic (PBT, PP). One-piece up to a belt width of 4000 mm (157.5 in).

Sprockets

in different sizes with round or square sprocket bore



Available surface pattern and opening area



S15-47 GRT

Open (47%), lattice-shaped surface

S15-47 RSA

Open (47%), lattice-shaped surface with reduced surface area



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

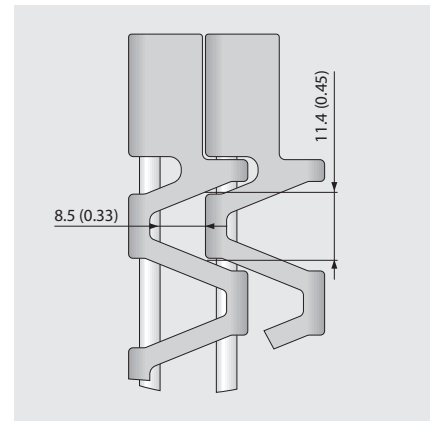
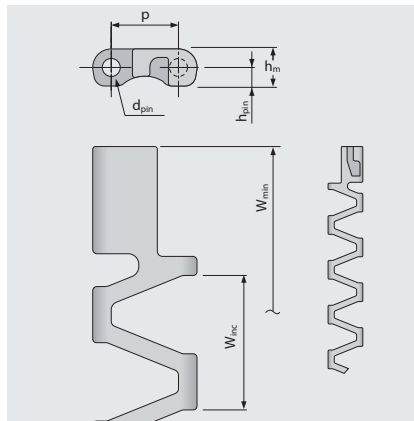
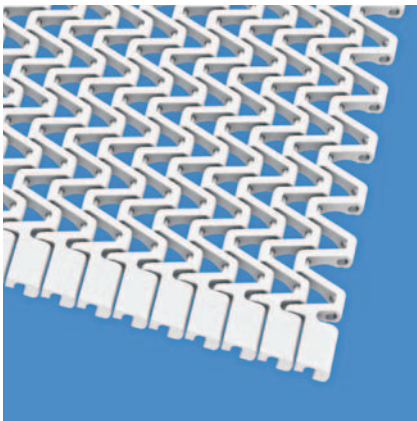
SERIES 15 | BELT TYPES

siegling prolink
modular belts

Straight running belt | Pitch 12.7 mm (0.5 in)

S15-47 GRT | 47% Opening | Grid top

Open area (47%) for excellent air circulation and drainage | 31% contact area (Largest opening: 11.4 x 7.5 mm/0.45 x 0.30 in);
Smooth surface | Easy-to-clean



Belt dimensions

	p	d _{pin}	h _m	h _{pin}	h _s	W _{min}	W _{inc}	W _{tol}	Minimum flex radii ¹⁾				
	Pitch	Pin Ø	Thickness	Pin position	Height	Width min.	Width Increment	Width tolerance [%]	r1 C _c x W _B	r2	r3	r4	r5
mm	12.7	3.4	7.0	3.5	–	203.2	25.4	±0.20	–	6.4	25.4	38.1	12.7
inch	0.5	0.13	0.28	0.14	–	8.0	1.0	±0.20	–	0.25	1.0	1.5	0.5

Available standard materials⁴⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation [%]	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m ²]	[lb/ft ²]		[°C]	[°F]	FDA ²⁾	EU ³⁾
POM	BL	PBT	UC	5	343	4.3	0.88	-0.4	-45/90	-49/194	●	●
POM	WT	PBT	UC	5	343	4.3	0.88	-0.4	-45/90	-49/194	●	●
PP	BL	PP	WT	2.5	171	2.8	0.58	-1.0	5/100	41/212	●	●
PP	WT	PP	WT	2.5	171	2.8	0.58	-1.0	5/100	41/212	●	●
PA*	BL	PBT	UC	4.5	308	3.7	0.75	0.4	-40/120	-40/248	●	●

Mold to order belts

PP	BL	PBT	UC	2.8	192	2.8	0.58	-1.0	5/100	41/212	●	●
PP	WT	PBT	UC	2.8	192	2.8	0.58	-1.0	5/100	41/212	●	●

* 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), □ UC (Uncolored), □ WT (White)

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

All imperial dimensions (inches) are rounded off.

¹⁾ Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

²⁾ Complies with FDA 21 CFR

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

⁴⁾ More materials and colors on request



MOVEMENT SYSTEMS

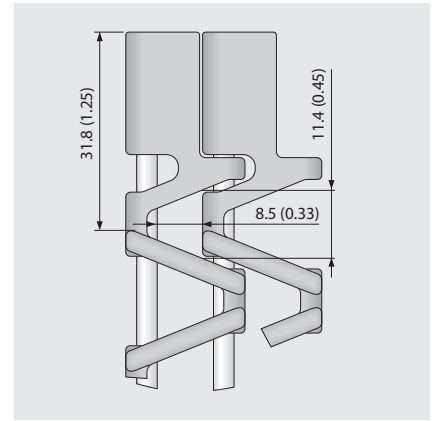
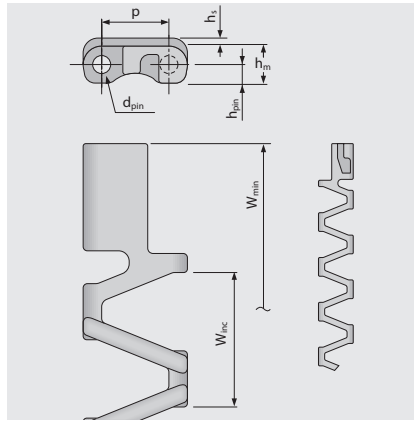
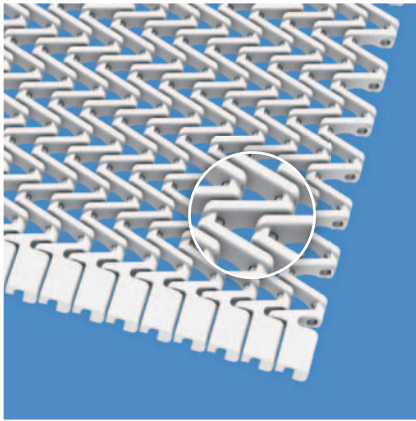
SERIES 15 | BELT TYPES

siegling prolink
modular belts

Straight running belt | Pitch 12.7 mm (0.5 in)

S15-47 RSA | 47% Opening | Reduced surface area

Open area (47%) for excellent air circulation and drainage | 20% contact area (Largest opening: 11.4 x 7.5 mm/0.45 x 0.30 in);
Smooth surface | Easy-to-clean



Belt dimensions

	p	d _{pin}	h _m	h _{pin}	h _s	W _{min}	W _{inc}	W _{tol}	Minimum flex radii ¹⁾				
	Pitch	Pin Ø	Thickness	Pin position	Height	Width min.	Width Increment	Width tolerance [%]	r1 C _c x W _B	r2	r3	r4	r5
mm	12.7	3.4	7.0	3.5	1.5	203.2	25.4	±0.20	–	6.4	25.4	38.1	12.7
inch	0.5	0.13	0.28	0.14	0.06	8.0	1.0	±0.20	–	0.25	1.0	1.5	0.5

Available standard materials⁴⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation [%]	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m ²]	[lb/ft ²]		[°C]	[°F]	FDA ²⁾	EU ³⁾
POM	BL	PBT	UC	5	343	5.2	1.07	-0.4	-45/90	-49/194	●	●
POM	WT	PBT	UC	5	343	5.2	1.07	-0.4	-45/90	-49/194	●	●
PP	BL	PP	WT	2.5	171	3.4	0.7	-1.0	5/100	41/212	●	●
PP	WT	PP	WT	2.5	171	3.4	0.7	-1.0	5/100	41/212	●	●
PA*	BL	PBT	UC	4.5	308	4.5	0.91	0.4	-40/120	-40/248	●	●

Mold to order belts

PP	BL	PBT	UC	2.8	192	3.4	0.7	-1.0	5/100	41/212	●	●
PP	WT	PBT	UC	2.8	192	3.4	0.7	-1.0	5/100	41/212	●	●

* 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), □ UC (Uncolored), □ WT (White)

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

All imperial dimensions (inches) are rounded off.

¹⁾ Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

²⁾ Complies with FDA 21 CFR

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⁴⁾ More materials and colors on request



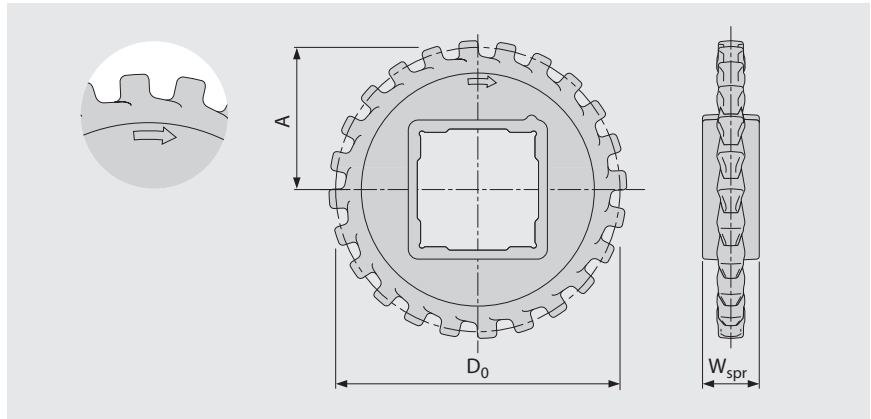
MOVEMENT SYSTEMS

SERIES 15 | SPROCKETS

siegling prolink
modular belts

Straight running belt | Pitch 12.7 mm (0.5 in)

S15 SPR | Sprockets



Main dimensions

Sprocket size (Number of teeth)		Z12	Z14	Z17	Z19	Z24	Z36
W _{spr}	mm	20.0	20.0	20.0	20.0	20.0	20.0
	inch	0.79	0.79	0.79	0.79	0.79	0.79
D ₀	mm	50.6	58.9	71.3	79.6	100.4	150.3
	inch	1.99	2.32	2.81	3.13	3.95	5.92
A _{max}	mm	21.8	25.9	32.1	36.3	46.7	71.6
	inch	0.86	1.02	1.26	1.43	1.84	2.82
A _{min}	mm	21.0	25.3	31.6	35.8	46.3	71.4
	inch	0.83	1.00	1.24	1.41	1.82	2.81

Shaft bores (● = Round, ■ = Square)

20	mm		●	●			
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



MOVEMENT SYSTEMS

LEGEND

① Series		④ Type		⑥ Material		⑦ Color*	
S1 ... S18		BPU	Bucket profile	PA	Polyamide	AT	Anthracite 
② Open area/Sprocket size		CAP	Pin lock & belt edge sealing	PA-HT	Polyamide high temperature	BG	Beige 
Percentage open area Format: xx E.g. 20 = 20%		CCW	Counter clockwise	PBT	Polybutylenterephthalate	BK	Black 
For sprockets: number of teeth Format: "Z"xx E.g. Z12 = 12 teeth		CLP	Clip	PE	Polyethylene	BL	Blue 
③ Surface pattern		CM	Center module	PE-I	PE impact resistant	DB	Dark blue 
BSL	Base module for slider	CW	Clockwise	PE-MD	PE metal detectable	GN	Green 
CTP	Cone top	FPL	Finger plate	PLX	Wear & impact improved polymer	LB	Light blue 
CUT	Curved top	HDT	Hold Down Tab	POM	Polyoxymethylene (Polyacetal)	LG	Light gray 
FLT	Flat top (smooth)	IDL	Idler	POM-CR	POM cut resistant	OR	Orange 
FRT-OG	Friction top without High Grip insert	PIN	Coupling rod	POM-HC	POM highly conductive	RE	Red 
FRT(X)	Friction top (Design X)	PMC	Profile module center	POM-MD	POM metal detectable	TQ	Turquoise 
GRT	Grid top	PMU	Profile module universal	POM-PE	POM side modules + PE center modules	UC	Uncolored 
HDK	High Deck	PSP	ProSnap	POM-PP	POM side modules + PP center modules	WT	White 
LRB	Lateral rib	RI	High Grip insert	PP	Polypropylene	YL	Yellow 
MOD	Modified module shape	RTR	Retaining ring	PP-MD	PP metal detectable	⑧ Height/Diameter/ Bore size and style	
NCL	No cling	SG	Module with sideguard	PP-SW	PP steam and hot water resistant	Height in mm (in) Format: Hxxx	
NPY	Negative pyramid	SLI	Slider	PXX-HC	Self-extinguishing highly conductive material	Pin diameter in mm (in) Format: Dxxx	
NSK	Non skid	SML	Side module, left	R1	TPE 80 Shore A, PP	Bore size: SQ (= square) or RD (= round) either in mm or inches Format: SQxxMM or RDxxIN	
NSK2	Non skid, nonwoven variant	SMR	Side module, right	R2	EPDM 80 Shore A, vulcanized	⑨ Length/Width	
NTP	Nub top (round studs)	SMU	Side module, universal/both sides	R3	TPE 70 Shore A, POM	Pins Length in mm (in) Format: Lxxx	
PRR	Pin Retained Rollers	SPR	Sprocket	R4	TPE 86 Shore A, PP	Module width in mm (in) Format: Wxxx	
RAT	Radius top	TPL	Turning panel, left	R5	TPE 52 Shore A, PP		
RRB	Raised rib	TPR	Turning panel, right	R6	TPE 63 Shore A, POM		
RSA	Reduced surface area	UM	Universal module	R7	TPE 50 Shore A, PP		
RTP	Roller top	WSC	Wheel Stopper Center	R8	TPE 55 Shore A, PE		
SRS	Slip-resistant surface	WSS	Wheel Stopper Side	SER	Self-extinguishing TPE		
⑤ Style				SS	Stainless steel		
1.7	1.7 collapse factor			TPC1	Thermoplastic Copolyester		
2.2	2.2 collapse factor			-HA	Supports the HACCP concept		
2.2 G	2.2 collapse factor, guided			-HW	High Wear resistant material		
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						

* 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.