

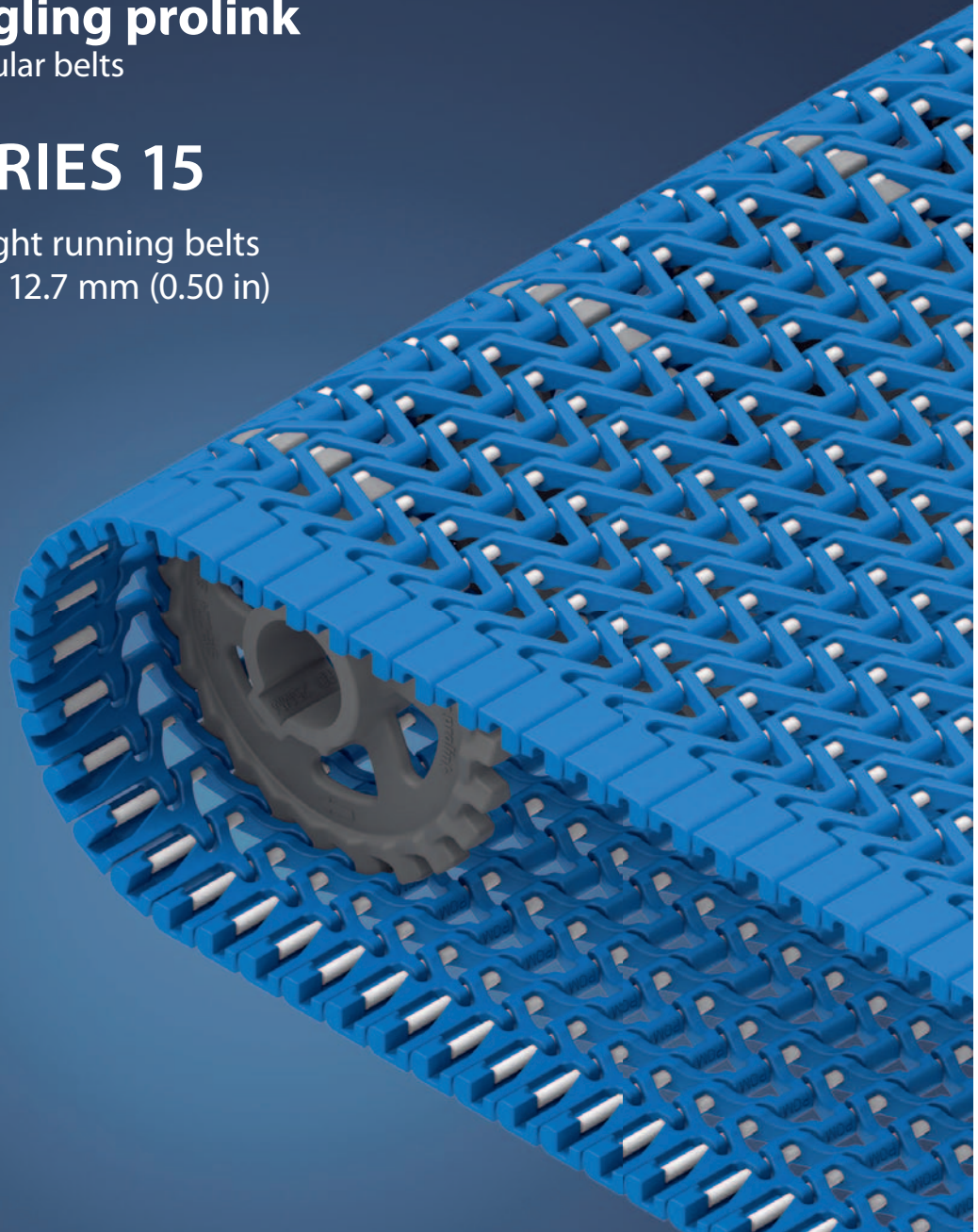
EXCERPT FROM PROLINK ENGINEERING MANUAL

01/20 (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

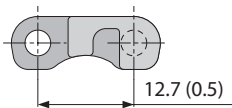
SERIES 15 | OVERVIEW

siegling prolink
modular belts

Straight running belts | Pitch 12.7 mm (0.5 in)

Belt 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

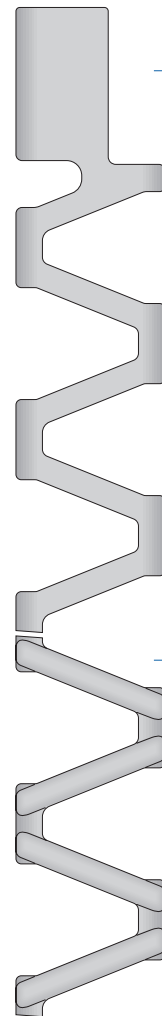
Pitch	12.7 mm (0.5 in)
Belt width min.	203.2 mm (8 in)
Width increments	25.4 mm (1 in)
Hinge pins	3.4 mm (0.13 in)

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), Malacky (Slovakia), NSW (Australia),
Tlalnepantla (Mexico), Saint-Petersburg (Russia),
Shizuoka (Japan), Maharashtra (India)

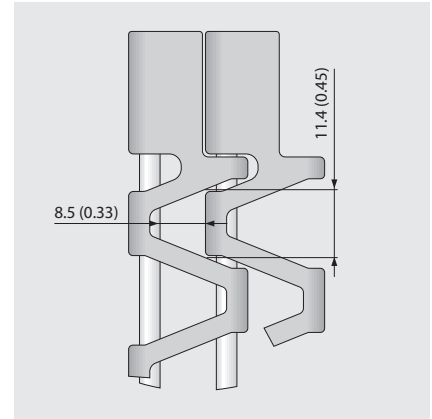
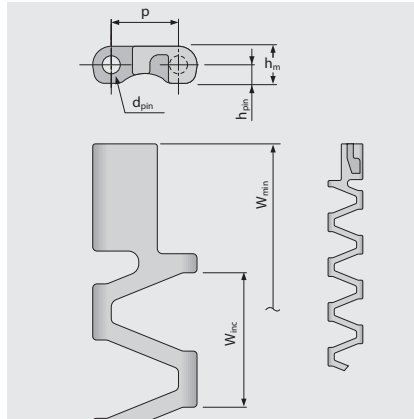
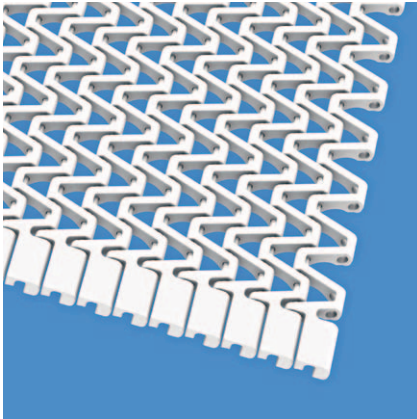
SERIES 15 | BELT TYPES

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 [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	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

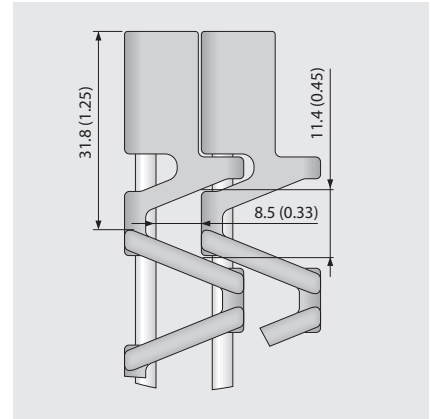
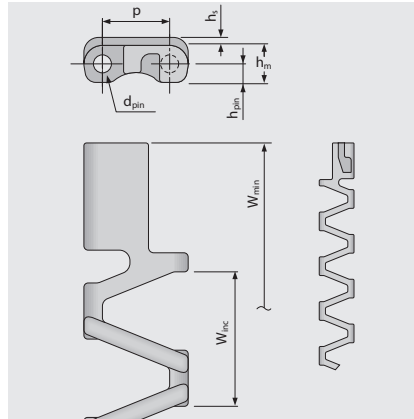
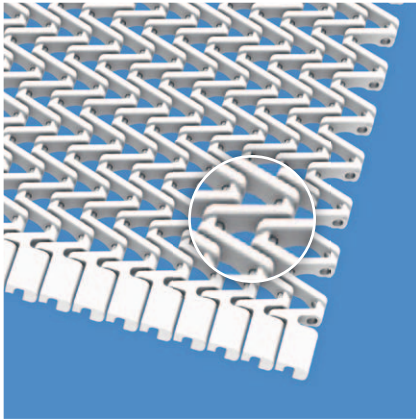
SERIES 15 | BELT TYPES

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 [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	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	●	●
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PA*	BL	PBT	UC	4.5	308	4.5	0.91	0.4	-40/120	-40/248	●	●

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

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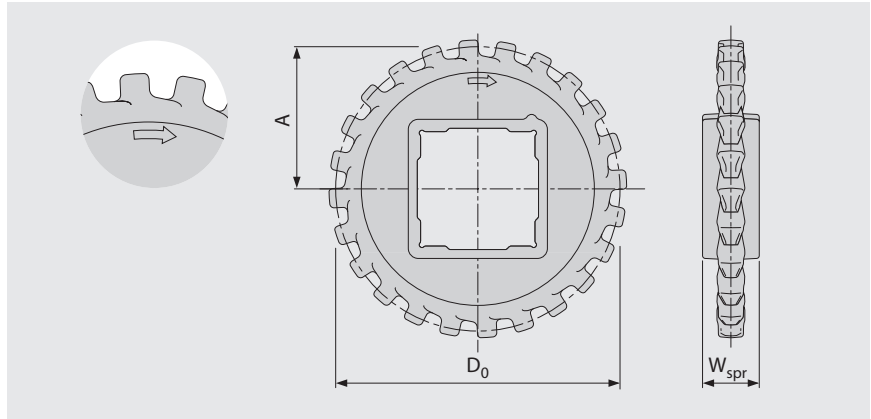
MOVEMENT SYSTEMS

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.

Forbo

MOVEMENT SYSTEMS

LEGEND

① Series

S1 ... S15

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

LRB Lateral rib

MOD Modified module shape

NCL No cling

NPY Negative pyramid

NSK Non skid

NTP Nub top (round studs)

RAT Radius top

RRB Raised rib

RSA Reduced surface area

RTP Roller top

SRS Slip-resistant surface

④ Type

A90 Angle 90° to conveying direction

BPU Bucket profile

CCW Counter clockwise

CLP Clip

CM Center module

CW Clockwise

FPL Finger plate

IDL Idler

PIN Coupling rod

PMC Profile module center

PMU Profile module universal

PMU lxx Profile module universal with indent xx = indent in mm

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

⑤ Style

BT Bearing tab

DR Double row sprocket

F1, F2, F3 ... Collapse factor modules

G Guided

GT Guiding tabs

HD Hold Down

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

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

TR Transparent

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.