siegling prolink
modular belts

SERIES 3
Straight running belts
Pitch 50 mm (1.97 in)
Belts for medium-duty food applications

**Side view scale 1:1**

**Available surface pattern and opening area**

- **S3-0 FLT**
  - Closed, smooth surface
- **S3-16 FLT**
  - Open (16%), smooth surface
- **S3-0 LRB**
  - Closed surface with lateral ribs
- **S3-16 LRB**
  - Open (16%) surface with lateral ribs

**Design characteristics**
- Hinges that open wide, combined with smooth, flat channels on the underside provides an easy-to-clean belt design
- Open edge design for unhindered drainage

**Basic data**
- Pitch: 50 mm (1.97 in)
- Belt width min.: 40 mm (1.6 in)
- Width increments: 20 mm (0.8 in)
- Hinge pins: Made of plastic (PE, PP, PBT), as a special type made also in blue or stainless steel

**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
SIEGLING PROLINK MODULAR BELTS

SERIES 3 | BELT TYPES
Straight running belt | Pitch 50 mm (1.97 in)

S3-0 FLT | 0 % Opening | Flat top
Closed, smooth surface | Flat top surface

Belt dimensions

<table>
<thead>
<tr>
<th>Pitch</th>
<th>Pin Ø</th>
<th>Thickness [mm]</th>
<th>Pin position [mm]</th>
<th>Height [mm]</th>
<th>Width min. [mm]</th>
<th>Width increment [mm]</th>
<th>Width tolerance [%]</th>
<th>r1</th>
<th>r2</th>
<th>r3</th>
<th>r4</th>
<th>r5</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>50.0</td>
<td>6.0</td>
<td>16.0</td>
<td>8.0</td>
<td>0.0</td>
<td>40.0</td>
<td>20.0</td>
<td>±0.2</td>
<td>–</td>
<td>50.0</td>
<td>100.0</td>
<td>150.0</td>
</tr>
<tr>
<td>inch</td>
<td>1.97</td>
<td>0.24</td>
<td>0.63</td>
<td>0.31</td>
<td>0.0</td>
<td>1.57</td>
<td>0.79</td>
<td>±0.2</td>
<td>–</td>
<td>1.97</td>
<td>3.94</td>
<td>5.91</td>
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</table>

Available standard materials

<table>
<thead>
<tr>
<th>Material</th>
<th>Color</th>
<th>Pin</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE</td>
<td>WT</td>
<td>PE</td>
<td>UC</td>
</tr>
<tr>
<td>PP</td>
<td>WT</td>
<td>PP</td>
<td>WT</td>
</tr>
<tr>
<td>PP</td>
<td>BL</td>
<td>PP</td>
<td>UC</td>
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</table>

Nominal belt pull, straight

<table>
<thead>
<tr>
<th>Material</th>
<th>Color</th>
<th>Pin</th>
<th>Color</th>
<th>Nominal belt pull, straight [N/mm]</th>
<th>Weight [kg/m²]</th>
<th>Width deviation [%]</th>
<th>Temperature [°C]</th>
<th>Certificates</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE</td>
<td>WT</td>
<td>PE</td>
<td>UC</td>
<td>6 411</td>
<td>7.5</td>
<td>1.54</td>
<td>-0.2</td>
<td>-70/65</td>
</tr>
<tr>
<td>PP</td>
<td>WT</td>
<td>PP</td>
<td>WT</td>
<td>12 822</td>
<td>7.1</td>
<td>1.45</td>
<td>0.5</td>
<td>41/212</td>
</tr>
<tr>
<td>PP</td>
<td>BL</td>
<td>PP</td>
<td>UC</td>
<td>16 1096</td>
<td>10.1</td>
<td>2.07</td>
<td>-0.3</td>
<td>-45/90</td>
</tr>
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</table>

Mold to order belts

<table>
<thead>
<tr>
<th>Material</th>
<th>Color</th>
<th>Pin</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>POM</td>
<td>WT</td>
<td>PB</td>
<td>UC</td>
</tr>
</tbody>
</table>

Mold to width available in: 40 mm (1.57 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
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
S3-16 FLT | 16 % Opening | Flat top

Open version (16%) for excellent air circulation and drainage | Contact area 77 % (Largest opening: 5 x 16.3 mm/0.2 x 0.64 in) | Smooth surface

### Belt dimensions

<table>
<thead>
<tr>
<th></th>
<th>p</th>
<th>dpin</th>
<th>hm</th>
<th>hpin</th>
<th>h</th>
<th>Wmin</th>
<th>Winc</th>
<th>Wtot</th>
<th>Minimum flex radii</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pitch</td>
<td>50.0</td>
<td>6.0</td>
<td>16.0</td>
<td>8.0</td>
<td>0.0</td>
<td>40.0</td>
<td>20.0</td>
<td>±0.2</td>
<td>–</td>
</tr>
<tr>
<td>Inch</td>
<td>1.97</td>
<td>0.24</td>
<td>0.63</td>
<td>0.31</td>
<td>0.0</td>
<td>1.57</td>
<td>0.79</td>
<td>±0.2</td>
<td>–</td>
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### Available standard materials

<table>
<thead>
<tr>
<th>Material</th>
<th>Color</th>
<th>Pin Material</th>
<th>Color</th>
<th>Nominal belt pull, straight</th>
<th>Weight</th>
<th>Width deviation</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE</td>
<td>WT</td>
<td>PE</td>
<td>UC</td>
<td>6</td>
<td>411</td>
<td>7.3</td>
<td>5/100</td>
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<tr>
<td>PP</td>
<td>WT</td>
<td>PP</td>
<td>WT</td>
<td>12</td>
<td>822</td>
<td>6.5</td>
<td>41/212</td>
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<tr>
<td>POM</td>
<td>WT</td>
<td>PBT</td>
<td>UC</td>
<td>16</td>
<td>1096</td>
<td>9.5</td>
<td>45/90</td>
</tr>
</tbody>
</table>

### Mold to order belts

- POM WT PBT UC

Mold to width available in: 40 mm (1.57 in), 100 mm (3.94 in), 200 mm (7.87 in)

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- 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.
- Flex radii: \( r_1 \) = side flex, \( r_2 \) = front flex on roller, \( r_3 \) = back flex on load bearing roller, \( r_4 \) = back flex on Hold Down shoe, \( r_5 \) = back flex on roller
- Complies with FDA 21 CFR
- Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds
- More materials and colors on request
SIEGLING PROLINK MODULAR BELTS

S3-0 LRB | 0% Opening | Lateral rib

Closed surface | Lateral ribs for better grip in small inclines and gentle conveying of delicate products | Contact area 14%

## Belt dimensions

<table>
<thead>
<tr>
<th></th>
<th>p (mm)</th>
<th>d&lt;sub&gt;pin&lt;/sub&gt; (mm)</th>
<th>h&lt;sub&gt;m&lt;/sub&gt; (mm)</th>
<th>h&lt;sub&gt;pin&lt;/sub&gt; (mm)</th>
<th>h&lt;sub&gt;s&lt;/sub&gt; (mm)</th>
<th>W&lt;sub&gt;min&lt;/sub&gt; (mm)</th>
<th>W&lt;sub&gt;inc&lt;/sub&gt; (mm)</th>
<th>W&lt;sub&gt;tol&lt;/sub&gt; (%)</th>
<th>Minimum flex radii³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pitch</td>
<td></td>
<td>Pin Ø</td>
<td>Thickness [mm]</td>
<td>Pin position [mm]</td>
<td>Height [mm]</td>
<td>Width min. [mm]</td>
<td>Width Increment [mm]</td>
<td>Width tolerance [%]</td>
<td>r&lt;sub&gt;1&lt;/sub&gt;</td>
</tr>
<tr>
<td>mm</td>
<td>50.0</td>
<td>6.0</td>
<td>16.0</td>
<td>8.0</td>
<td>4.0</td>
<td>40.0</td>
<td>200</td>
<td>±0.2</td>
<td>–</td>
</tr>
<tr>
<td>inch</td>
<td>1.97</td>
<td>0.24</td>
<td>0.63</td>
<td>0.31</td>
<td>0.16</td>
<td>1.57</td>
<td>0.79</td>
<td>±0.2</td>
<td>–</td>
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</table>

## Mold to order belts⁴)

<table>
<thead>
<tr>
<th>Belt Material</th>
<th>Color</th>
<th>Pin Material</th>
<th>Color</th>
<th>Nominal belt pull, straight [N/mm]</th>
<th>Weight [kg/m²]</th>
<th>Weight deviation [%]</th>
<th>Temperature [°C]</th>
<th>FDA/³</th>
<th>EU/³</th>
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<tbody>
<tr>
<td>POM</td>
<td>WT</td>
<td>PBT</td>
<td>UC</td>
<td>16</td>
<td>1096</td>
<td>-0.3</td>
<td>-45/90</td>
<td></td>
<td></td>
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<tr>
<td>PE</td>
<td>WT</td>
<td>PE</td>
<td>UC</td>
<td>6</td>
<td>411</td>
<td>-0.2</td>
<td>-70/65</td>
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<td></td>
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</tbody>
</table>

Mold to width available in: 200 mm (7.87 in)

---

³ 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: r<sub>1</sub> = side flex, r<sub>2</sub> = front flex on roller, r<sub>3</sub> = back flex on load bearing roller, r<sub>4</sub> = back flex on Hold Down shoe, r<sub>5</sub> = 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
S3-16 LRB | 16% Opening | Lateral rib

Open lateral rib version (16%) for excellent air circulation and drainage | Lateral ribbing for better grip in inclined conveying | Contact area 14% (Largest opening: 5 x 16.3 mm/0.2 x 0.64 in)

Belt dimensions

<table>
<thead>
<tr>
<th>p</th>
<th>d_pin</th>
<th>hm</th>
<th>h_pin</th>
<th>h_m</th>
<th>W_min</th>
<th>W_inc</th>
<th>W_tol</th>
<th>Minimum flex radii</th>
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</thead>
<tbody>
<tr>
<td>mm</td>
<td>50.0</td>
<td>6.0</td>
<td>16.0</td>
<td>8.0</td>
<td>4.0</td>
<td>40.0</td>
<td>20.0</td>
<td>±0.2</td>
</tr>
<tr>
<td>inch</td>
<td>1.97</td>
<td>0.24</td>
<td>0.63</td>
<td>0.31</td>
<td>0.16</td>
<td>1.57</td>
<td>0.79</td>
<td>±0.2</td>
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</table>

Mold to order belts⁴)

<table>
<thead>
<tr>
<th>Belt Material</th>
<th>Color</th>
<th>Pin Material</th>
<th>Color</th>
<th>Nominal belt pull, straight [N/mm]</th>
<th>Weight [kg/m²]</th>
<th>Weight deviation [%]</th>
<th>Temperature [°C]</th>
<th>Certificates</th>
</tr>
</thead>
<tbody>
<tr>
<td>PP</td>
<td>WT</td>
<td>PP</td>
<td>WT</td>
<td>12</td>
<td>822</td>
<td>6.6</td>
<td>1.35</td>
<td>0.05</td>
</tr>
<tr>
<td>PE</td>
<td>WT</td>
<td>PE</td>
<td>UC</td>
<td>6</td>
<td>411</td>
<td>7.4</td>
<td>1.52</td>
<td>-0.2</td>
</tr>
</tbody>
</table>

Mold to width available in: 200 mm (7.87 in)

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⁴) 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
SIEGLING PROLINK MODULAR BELTS

SERIES 3 | SPROCKETS

Straight running belt | Pitch 50 mm (1.97 in)

S3 SPR | Sprockets

Main dimensions

<table>
<thead>
<tr>
<th>Sprocket size (Number of teeth)</th>
<th>Z6</th>
<th>Z8</th>
<th>Z10</th>
<th>Z12</th>
<th>Z16</th>
</tr>
</thead>
<tbody>
<tr>
<td>$W_{spr}$ (mm)</td>
<td>40.0</td>
<td>40.0</td>
<td>40.0</td>
<td>40.0</td>
<td>40.0</td>
</tr>
<tr>
<td>($\text{inch}$)</td>
<td>1.57</td>
<td>1.57</td>
<td>1.57</td>
<td>1.57</td>
<td>1.57</td>
</tr>
<tr>
<td>$D_0$ (mm)</td>
<td>100.0</td>
<td>130.8</td>
<td>161.8</td>
<td>193.2</td>
<td>256.3</td>
</tr>
<tr>
<td>($\text{inch}$)</td>
<td>3.94</td>
<td>5.15</td>
<td>6.37</td>
<td>7.61</td>
<td>10.09</td>
</tr>
<tr>
<td>$A_{\text{max}}$ (mm)</td>
<td>42.0</td>
<td>57.4</td>
<td>72.9</td>
<td>88.6</td>
<td>120.1</td>
</tr>
<tr>
<td>($\text{inch}$)</td>
<td>1.65</td>
<td>2.26</td>
<td>2.87</td>
<td>3.49</td>
<td>4.73</td>
</tr>
<tr>
<td>$A_{\text{min}}$ (mm)</td>
<td>36.4</td>
<td>53.0</td>
<td>69.3</td>
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<td>117.8</td>
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<td>($\text{inch}$)</td>
<td>1.43</td>
<td>2.09</td>
<td>2.73</td>
<td>3.37</td>
<td>4.64</td>
</tr>
</tbody>
</table>

Shaft bores ($\bullet = \text{Round}, \blacksquare = \text{Square}$)

| 25 mm                  | \bullet |
| 30 mm                  | \bullet | \bullet |
| 40 mm                  | \blacksquare | \blacksquare |
| 60 mm                  | \blacksquare | \blacksquare |
| 80 mm                  | \blacksquare | \blacksquare |
| 1 inch ($\text{inch}$) | \bullet | \bullet |
| 1.5 inch ($\text{inch}$) | \blacksquare | \blacksquare |
| 2.5 inch ($\text{inch}$) | \blacksquare | \blacksquare |

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.
SERIES 3 | PROFILES

Siegling Prolink modular belts

Straight running belt | Pitch 50 mm (1.97 in)

S3-0 FLT PMU

Flat top surface for dry products

<table>
<thead>
<tr>
<th>Material</th>
<th>Color</th>
<th>Height (h)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>25 mm 1 inch</td>
</tr>
<tr>
<td>PE</td>
<td>WT</td>
<td>✔️</td>
</tr>
<tr>
<td>PP</td>
<td>BL</td>
<td>✔️</td>
</tr>
<tr>
<td>PP</td>
<td>WT</td>
<td>✔️</td>
</tr>
</tbody>
</table>

Molded width: 200 mm (7.9 in)

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

All imperial dimensions (inches) are rounded off.

Note: Use of accessory in a belt may impact on the minimum design radii. Please see chapter 6.3 for further information.
SERIES 3 | SIDE GUARDS
Straight running belt | Pitch 50 mm (1.97 in)

S3 SG | Side guards
For retention of bulk products

Recommended running direction

Basic data

<table>
<thead>
<tr>
<th>Material</th>
<th>Color</th>
<th>Height (h)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>25 mm 1 inch</td>
</tr>
<tr>
<td>PE</td>
<td>LB</td>
<td>●</td>
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<tr>
<td>PE</td>
<td>WT</td>
<td>●</td>
</tr>
<tr>
<td>PE-MD</td>
<td>BL</td>
<td>●</td>
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<tr>
<td>PP</td>
<td>LB</td>
<td>●</td>
</tr>
<tr>
<td>PP</td>
<td>WT</td>
<td>●</td>
</tr>
</tbody>
</table>

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 ... 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**
   - **Series**
     - 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 lx Profile module universal with indent
     - RI High Grip insert
     - RTR Retaining ring
     - SG Module with sideguard
     - SLM 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. **Material**
   - PA Polyamide
   - PA-HT Polyamide high temperature
   - PBT Polybutylene-terephthalate
   - 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-PB 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

6. **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

7. **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

8. **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.*