SERIES 4.1
Straight running belts
Pitch 14 mm (0.55 in)
Belts for light to medium-duty food and non-food applications

Side view scale 1:1

Available surface pattern and opening area

- **S4.1-0 FLT**
  - Closed, smooth surface

- **S4.1-0 NPY**
  - Closed surface with negative pyramid pattern

- **S4.1-0 FRT1**
  - Closed surface with friction top

- **S4.1-21 FLT**
  - Open (21%), smooth surface

- **S4.1-21 NTP**
  - Open (21%) surface with round studs. Version available without round studs at the side (25 mm indent)

**Design characteristics**
- Small pitch belt for applications requiring small transfer gaps
- Hinges that open wide and flat channels on the underside ensure the belt is easy to clean
- Unique sprocket design with rounded tooth edges provides ideal load distribution
- Wide sprocket teeth ensure superior sprocket engagement and strength

**Basic data**
- **Pitch**: 14 mm (0.55 in)
- **Belt width min.**: 25 mm (0.98)
- **Width increments**: 12.5 mm (0.5 in)
- **Hinge pins**: Made of plastic (PE, PP, PBT)

**Sprockets**
- in different sizes with round or square sprocket bore

**Profiles**
- in different heights and designs for inclines

**NSF-compliant from these certified Forbo plants:**
- Huntersville (USA), Malacky (Slovakia), NSW (Australia), Tlalnepantla (Mexico), Saint-Petersburg (Russia), Shizuoka (Japan), Maharashtra (India)
SERIES 4.1 | BELT TYPES
Straight running belt | Pitch 14 mm (0.55 in)

S4.1-0 FLT | 0% Opening | Flat top

Closed, smooth surface | Flat top surface

Belt dimensions

<table>
<thead>
<tr>
<th>p</th>
<th>d_{pin}</th>
<th>(h_m)</th>
<th>(h_{pin})</th>
<th>(h_s)</th>
<th>(W_{min})</th>
<th>(W_{inc})</th>
<th>(W_{tol})</th>
<th>Minimum flex radii</th>
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<td>mm</td>
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<td>9.0</td>
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<tr>
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<td>±0.2</td>
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Available standard materials

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<td>WT</td>
<td>PE</td>
<td>UC</td>
<td>3</td>
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<td>1.45</td>
<td>0.0</td>
<td>-45/-90</td>
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<td>5/100</td>
<td>41/212</td>
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<tr>
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<td>WT</td>
<td>5</td>
<td>343</td>
<td>4.6</td>
<td>0.94</td>
<td>0.25</td>
<td>5/100</td>
<td>41/212</td>
</tr>
<tr>
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<td>POM-MD</td>
<td>BL</td>
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<td>685</td>
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<td>1.54</td>
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<td>-45/-90</td>
<td>-49/-194</td>
</tr>
</tbody>
</table>

Mold to order belts

PXX-HC | BK | PBT | UC | 5 | 343 | 5.1 | 1.04 | 0.25 | 5/100 | 41/212 | – | –

Mold to width available in: 38 mm (1.5 in), 50 mm (1.97 in), 100 mm (3.94 in), 125 mm (4.92 in)

BL (Blue), BK (Black), 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 Flexible: 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
**SERIES 4.1 | BELT TYPES**

Straight running belt | Pitch 14 mm (0.55 in)

**S4.1-0 NPY | 0% Opening | Negative pyramid**

Closed surface | Negative pyramid pattern for superb release characteristics when conveying wet or sticky products

### Belt dimensions

<table>
<thead>
<tr>
<th>p</th>
<th>d pin</th>
<th>hm</th>
<th>h pin</th>
<th>h</th>
<th>W min</th>
<th>W incr</th>
<th>W tol</th>
<th>Minimum flex radii</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>14.0</td>
<td>5.0</td>
<td>9.0</td>
<td>4.5</td>
<td>0.0</td>
<td>25.0</td>
<td>12.5</td>
<td>±0.2</td>
</tr>
<tr>
<td>inch</td>
<td>0.55</td>
<td>0.2</td>
<td>0.35</td>
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<td>0.98</td>
<td>0.49</td>
<td>±0.2</td>
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</table>

### Available standard materials

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<th>Material</th>
<th>Color</th>
<th>Pin</th>
<th>Material</th>
<th>Color</th>
<th>Nominal belt pull, straight</th>
<th>Weight</th>
<th>Width deviation</th>
<th>Temperature</th>
<th>Certificates</th>
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<tbody>
<tr>
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<td></td>
<td></td>
<td></td>
<td>[N/mm]</td>
<td>[kg/m²]</td>
<td>[%]</td>
<td>[°C]</td>
<td>[°F]</td>
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<td>PE</td>
<td>BL</td>
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<td>5.1</td>
<td>1.04</td>
<td>–0.1</td>
<td>–70/65</td>
<td>–94/149</td>
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<td>PBT</td>
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<td>685</td>
<td>7.1</td>
<td>1.45</td>
<td>0.0</td>
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<td>–69/194</td>
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<tr>
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<td>4.6</td>
<td>0.94</td>
<td>0.25</td>
<td>5/100</td>
<td>41/212</td>
</tr>
</tbody>
</table>

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

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BL (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 radi: 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
### Belt Types

**Series 4.1**

**Belt Types**

Straight running belt | Pitch 14 mm (0.55 in)

**S4.1-0 FRT1** | 0% Opening | Friction top (Design 1)

Closed surface | Friction top with slightly elevated triangular shapes to reduce contact area/increase contact pressure to optimise grip and to channel dirt away from the friction surface.

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#### Belt Dimensions

<table>
<thead>
<tr>
<th>Pitch (mm)</th>
<th>Pin Ø (mm)</th>
<th>Thickness (mm)</th>
<th>Pin Height (mm)</th>
<th>Width Min. (mm)</th>
<th>Width Increment (mm)</th>
<th>Width Tolerance (%)</th>
<th>Minimum Flex Radii (R)</th>
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</thead>
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<tr>
<td>14</td>
<td>5.0</td>
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<td>4.5</td>
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#### Available Standard Materials

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<th>Color</th>
<th>Pin Material</th>
<th>Color</th>
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<th>Nominal Belt Pull, straight (N/mm)</th>
<th>Weight (kg/m²)</th>
<th>Weight (lb/ft²)</th>
<th>Width Deviation (%)</th>
<th>Minimum Flex Radii (R)</th>
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<td>PE</td>
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<td>BG</td>
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<td>1.39</td>
<td>-0.1</td>
<td>-70/65/94/149</td>
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<td>BL</td>
<td>PBT</td>
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<td>R6</td>
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<td>R7</td>
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<td>PP</td>
<td>WT</td>
<td>PP</td>
<td>WT</td>
<td>R7</td>
<td>BK</td>
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<td>6.9</td>
<td>1.41</td>
<td>0.25</td>
<td>5/100/41/212</td>
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**Mold to Order Belts**

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<th>Belt Material</th>
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<th>Pin Material</th>
<th>Color</th>
<th>Rubber</th>
<th>Color</th>
<th>Nominal Belt Pull, straight (N/mm)</th>
<th>Weight (kg/m²)</th>
<th>Weight (lb/ft²)</th>
<th>Width Deviation (%)</th>
<th>Minimum Flex Radii (R)</th>
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<td>BL</td>
<td>R8</td>
<td>BK</td>
<td>10</td>
<td>6.9</td>
<td>1.41</td>
<td>0.0</td>
<td>-45/90/49/194</td>
</tr>
<tr>
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<td>PP-MD</td>
<td>BL</td>
<td>R7</td>
<td>BK</td>
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<td>4.8</td>
<td>0.98</td>
<td>0.2</td>
<td>5/100/41/212</td>
</tr>
</tbody>
</table>

Mold to width available in: 50 mm (1.97 in), 125 mm (4.92 in), 200 mm (7.87 in)

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**Forbo Movement Systems**

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 4.1 | BELT TYPES
Straight running belt | Pitch 14 mm (0.55 in)

S4.1-21 FLT | 21 % Opening | Flat top

Large open area (21 %) for excellent air circulation and drainage | Contact area 70 % (Largest opening: 5.3 x 4.4 mm/0.21 x 0.17 in) | Smooth 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>
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<th>r2 [mm]</th>
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Available standard materials

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<th>Color</th>
<th>Belt</th>
<th>Pin Material</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>
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<td>PE</td>
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<td>685</td>
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<td>1.33</td>
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<td>4.1</td>
<td>0.84</td>
<td>0.25</td>
<td>5/100 41/212</td>
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Mold to order belts

<table>
<thead>
<tr>
<th>Material</th>
<th>Color</th>
<th>Belt</th>
<th>Pin Material</th>
<th>Color</th>
<th>Nominal belt pull, straight [N/mm]</th>
<th>Weight [kg/m²]</th>
<th>Width deviation [%]</th>
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<th>Certificates</th>
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<td>1.4</td>
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<td>685</td>
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<td>685</td>
<td>4.8</td>
<td>0.98</td>
<td>0.2</td>
<td>5/100 41/212</td>
</tr>
</tbody>
</table>

Mold to width available in: 38 mm (1.5 in), 50 mm (1.97 in), 100 mm (3.94 in), 125 mm (4.92 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.

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
S4.1-21 NTP | 21 % Opening | Nub top (round studs)

Large open area (21 %) for excellent air circulation and drainage | Contact area 4 % (Largest opening: 5.3 x 4.4 mm/0.21 x 0.17 in) | Nub top surface for good release of wet and sticky products | Version available without round studs at the side (25 mm indent)

Belt dimensions

<table>
<thead>
<tr>
<th>p</th>
<th>d_pin</th>
<th>h_m</th>
<th>h_pin</th>
<th>h_s</th>
<th>W_min</th>
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<tbody>
<tr>
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<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>r1</td>
</tr>
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<td>9.0</td>
<td>4.5</td>
<td>2.5</td>
<td>25.0</td>
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</tr>
<tr>
<td>inch</td>
<td>0.55</td>
<td>0.2</td>
<td>0.35</td>
<td>0.18</td>
<td>0.1</td>
<td>0.98</td>
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</table>

Available standard materials

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<th>Pin Material</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>BL</td>
<td>PE</td>
<td>BL</td>
<td>3</td>
<td>206</td>
<td>4.6</td>
<td>0.94</td>
<td>-0.1</td>
</tr>
<tr>
<td>POM</td>
<td>BL</td>
<td>PBT</td>
<td>BL</td>
<td>10</td>
<td>685</td>
<td>6.6</td>
<td>1.35</td>
<td>-45/90</td>
</tr>
<tr>
<td>PP</td>
<td>WT</td>
<td>PP</td>
<td>WT</td>
<td>5</td>
<td>343</td>
<td>4.2</td>
<td>0.86</td>
<td>5/100</td>
</tr>
</tbody>
</table>

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

Also available with molded indent 25 mm (0.98 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.

1) 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

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
S4.1 SPR | Sprockets

Wide sprocket teeth ensure superior sprocket engagement and load transmission

Main dimensions

<table>
<thead>
<tr>
<th>Sprocket size (Number of teeth)</th>
<th>Z10</th>
<th>Z12</th>
<th>Z14</th>
<th>Z18</th>
<th>Z19</th>
<th>Z26</th>
<th>Z35</th>
</tr>
</thead>
<tbody>
<tr>
<td>W\text{spr} mm</td>
<td>24.0</td>
<td>24.0</td>
<td>24.0</td>
<td>38.0</td>
<td>38.0</td>
<td>38.0</td>
<td>38.0</td>
</tr>
<tr>
<td>D_0 mm</td>
<td>47.1</td>
<td>56.1</td>
<td>65.3</td>
<td>83.4</td>
<td>88.0</td>
<td>119.8</td>
<td>160.4</td>
</tr>
<tr>
<td>D_0 inch</td>
<td>1.85</td>
<td>2.21</td>
<td>2.57</td>
<td>3.28</td>
<td>3.46</td>
<td>4.72</td>
<td>6.31</td>
</tr>
<tr>
<td>A_{\text{max}} mm</td>
<td>0.75</td>
<td>0.93</td>
<td>1.11</td>
<td>1.46</td>
<td>1.56</td>
<td>2.18</td>
<td>2.98</td>
</tr>
<tr>
<td>A_{\text{min}} mm</td>
<td>18.1</td>
<td>22.8</td>
<td>27.5</td>
<td>36.6</td>
<td>39.0</td>
<td>55.0</td>
<td>75.4</td>
</tr>
<tr>
<td>A_{\text{min}} inch</td>
<td>0.71</td>
<td>0.90</td>
<td>1.08</td>
<td>1.44</td>
<td>1.53</td>
<td>2.17</td>
<td>2.97</td>
</tr>
</tbody>
</table>

Shaft bores (\(\bullet\) = Round, \(\blacksquare\) = Square)

<table>
<thead>
<tr>
<th>20</th>
<th>mm</th>
<th>(\bullet)</th>
<th>(\blacksquare)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>mm</td>
<td>(\bullet)</td>
<td>(\blacksquare)</td>
</tr>
<tr>
<td>30</td>
<td>mm</td>
<td>(\bullet)</td>
<td>(\bullet)</td>
</tr>
<tr>
<td>40</td>
<td>mm</td>
<td>(\bullet)</td>
<td>(\bullet)</td>
</tr>
<tr>
<td>60</td>
<td>mm</td>
<td>(\bullet)</td>
<td>(\bullet)</td>
</tr>
<tr>
<td>0.75</td>
<td>inch</td>
<td>(\bullet)</td>
<td>(\bullet)</td>
</tr>
<tr>
<td>1</td>
<td>inch</td>
<td>(\bullet)</td>
<td>(\bullet)</td>
</tr>
<tr>
<td>1.25</td>
<td>inch</td>
<td>(\bullet)</td>
<td>(\bullet)</td>
</tr>
<tr>
<td>1.5</td>
<td>inch</td>
<td>(\bullet)</td>
<td>(\bullet)</td>
</tr>
<tr>
<td>2.5</td>
<td>inch</td>
<td>(\bullet)</td>
<td>(\bullet)</td>
</tr>
</tbody>
</table>

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.
Siegling Prolink modular belts

Series 4.1 | Profiles

Straight running belt | Pitch 14 mm (0.55 in)

S4.1 FLT/NCL PMU

No cling surface to improve release of wet and sticky products and flat top surface for dry products

Basic data

<table>
<thead>
<tr>
<th>Material</th>
<th>Color</th>
<th>Height (h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE</td>
<td>BL</td>
<td>●</td>
</tr>
<tr>
<td>PE</td>
<td>WT</td>
<td>●</td>
</tr>
<tr>
<td>POM</td>
<td>BL</td>
<td>●</td>
</tr>
<tr>
<td>POM</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)

Forbo Movement Systems

BL (Blue), WT (White)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 “Temperature influence”. All imperial dimensions (inches) are rounded off. Note: Use of accessory in a belt may impact on the minimum design radii. Please see chapter 6.3 for further information.
### Legend

#### Series
- S1 … S15

#### 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

#### Surface pattern
- **BSL**
  - Base module for slider
- **CTP**
  - Cone top
- **CUT**
  - Curved top
- **FLT**
  - Flat top (smooth)
- **FRT(X)**
  - Friction top (Design X)
- **FRT-OG**
  - FRT without High Grip insert
- **GRT**
  - Grid top
- **LRB**
  - Lateral rib
- **MOD**
  - Modified module shape
- **NCL**
  - No cling
- **NPI**
  - Negative pyramid
- **NSK**
  - Non skid
- **NTP**
  - Nub top (round studs)
- **RAT**
  - Radius top
- **RSA**
  - Reduced surface area
- **RTP**
  - Roller top
- **RRB**
  - Raised rib
- **SRS**
  - Slip-resistant surface

#### Type
- **A90**
  - Angle 90° to conveying direction
- **BPU**
  - Bucket profile
- **CM**
  - Center module
- **SML**
  - Side module, left
- **SMR**
  - Side module, right
- **SMU**
  - Side module, universal/both sides
- **UM**
  - Universal module
- **PMC**
  - Profile module center
- **PMU**
  - Profile module universal
- **CLP**
  - Clip
- **IDL**
  - Idler
- **SG**
  - Module with sideguard
- **PIN**
  - Coupling rod
- **FPL**
  - Finger plate
- **SLI**
  - Slider
- **SPR**
  - Sprocket
- **RTR**
  - Retaining ring
- **TLP**
  - Turning panel, left
- **TPR**
  - Turning panel, right
- **CW**
  - Clockwise
- **CCW**
  - Counterclockwise

#### Material
- **PA**
  - Polyamide
- **PA-HT**
  - Polyamide high temperature
- **PBT**
  - Polybutylene terephthalate
- **PE**
  - Polyethylene
- **PE-MD**
  - PE metal detectable
- **POM**
  - Polyoxymethylene (Polycetal)
- **POM-CR**
  - POM cut resistant
- **POM-HC**
  - POM highly conductive
- **POM-MD**
  - POM metal detectable Polypropylene
- **POM-PE**
  - POM side modules + PE center modules
- **POM-PP**
  - POM side modules + PP center modules
- **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

#### Color*
- **AT**
  - Anthracite
- **BL**
  - Blue
- **BG**
  - Beige
- **BK**
  - Black
- **DB**
  - Dark blue
- **GN**
  - Green
- **LB**
  - Light blue
- **LG**
  - Light gray
- **OR**
  - Orange
- **RE**
  - Red
- **TR**
  - Transparent
- **TQ**
  - Turquoise
- **UC**
  - Uncolored
- **WT**
  - White
- **YL**
  - Yellow

#### Height/Diameter/Bore size and style
- **Height in mm**
  - Format: Hxxx
- **Pin diameter in mm**
  - Format: Dxxx
- **Bore size: SQ (= square) or RD (= round)**
  - either in mm or inches
  - Format: SQxxMM or RDxxIN

#### Length/Width
- **Pins Length in mm**
  - Format: Lxxx
- **Module width in mm**
  - 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.*