THE FULL BELTING SCOPE FOR THE **GYPSUM INDUSTRY** FROM ONE SINGLE SOURCE
When you need to produce top quality despite pressure on costs, Forbo Siegling delivers a one-stop source of products and services.

Reliable, state-of-the-art belting products in excellent quality help you to achieve the potential of your production machinery to the full and minimize scheduled and unscheduled downtime. Additional products, such as splicing tools, make handling easier and the application more efficient.

From advice to fitting to after sales service, Forbo Siegling offers a comprehensive range of services and consistent supervision by experienced engineers with thorough knowledge of the application concerned.

But even top quality products and commitment cannot replace personal contact to the customer. This is why we have more than 2,300 employees in over 80 countries globally. There are more than 300 service points in places all over the world.

Innovative, reliable belting products
Tools, processes and instructions
Comprehensive application-driven expertise
A whole host of services

ISO 9001 certified
As experts in material flow and intralogistics we have an extensive portfolio of belting products for industrial applications. Standard products and special developments (such as our plasterboard belts) are part of a wide range geared to the industry to help you get the best out of your machinery.

We have numerous belts with different characteristics for each plasterboard and gypsum fiberboard manufacturing process – tailored to your technology and processing parameters. Our engineers can advise you in more detail.
In the past, rubber belts and thick high-maintenance PVC belts were used as forming belts in plasterboard production. Forbo Siegling has replaced these thick belts with a 9 mm maintenance-free Siegling Transilon PVC belt including high-tech fabric tension members.

The success of this product is based on:

- Highly accurate thickness tolerances, also around the splice
- Superb belt tracking
- Extremely flat and hard surfaces
- Top abrasion resistance
- Superb friction values
- Maintenance-free, low elongation
- Excellent lateral stiffness

At first glance you might think this is a bold claim to make. But we’re not only confident it’s true, we have proved it with dozens of installations on all continents. After the market launch in 2012 most of the major players in the gypsum board industry – both OEMs and end-users – trust in Forbo’s expertise.

These characteristics are essential for the curing process and make this belt a unique product for the market. What’s more, fast and reliable splicing and easy repair of the belt’s surface are true solution-driven arguments for end-users. Scratches and holes from the production process in the old rubber belts led to vast quality problems occurring in the gypsum boards and were almost beyond repair. The new Siegling Transilon PVC belt means that repairs take only a matter of a few minutes without requiring any trained personnel.

The belts are tensioned and tracked only once during the run-in period. Due to the two-ply, high-tech fabric tension member there’s no need to re-tension them every few days.
Thin but strong double-ply, extremely strong special polyester fabric, low elongation and very laterally stiff.

Fast and reliable splice with an excellent, flat surface. No special tools required.

Time required for a belt exchange:

2 days
Siegling Transilon plasterboard belt

Up to 5 days
Conventional rubber belts

Easy to repair with repair-friendly, 2.8 mm thick hard PVC coating.

Technical information

<table>
<thead>
<tr>
<th>Type designation</th>
<th>E X/2 V28/V28 MT/MT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Article number</td>
<td>906737</td>
</tr>
<tr>
<td>Colour</td>
<td>grey</td>
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<tr>
<td>Coating thickness</td>
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<td>Number of plies</td>
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<tr>
<td>Total thickness approx.</td>
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<tr>
<td>Weight approx.</td>
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<td>Belt tension at fitting</td>
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<td>Tensile strength</td>
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<tr>
<td>Elongation at break</td>
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<tr>
<td>$d_{	ext{min}}$ approx.</td>
<td>400 (15.7)</td>
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<tr>
<td>Width supplied max.</td>
<td>3100 (122) (wider width on request)</td>
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<tr>
<td>Max. length without splice</td>
<td>230 (754)</td>
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<tr>
<td>Permitted operating temperature</td>
<td>-10/+70 (14/158)</td>
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<tr>
<td>Top-face coating</td>
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<tr>
<td>Surface hardness</td>
<td>85</td>
</tr>
<tr>
<td>Tension member</td>
<td>low elongation, high-tech fabric</td>
</tr>
<tr>
<td>Endless splice (Type)</td>
<td>70 mm (Z-stepped)</td>
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<tr>
<td>Belt edges</td>
<td>cut</td>
</tr>
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</table>

Additional information is available at www.forbo-siegling.com and in the following brochures:

No.   Title
305   Siegling Transilon – Recommendations for Machine Design
309   Siegling Transilon – Chemical Resistance Properties
317   Siegling Transilon – Technical Information 1 · Storage, Finishing, Fitting

Low friction
The surface of Siegling Transilon plasterboard belts has a particularly low friction coefficient.

Low sag, no re-tensioning, no shortening
Siegling Transilon plasterboard belts are dimensionally stable and offer optimum stress-strain values.

Friction Plasterboard belt/Paper

Stress-strain diagram
Forbo Siegling offers customised support
– for fitting **endless belts**
  (belts spliced in our factory in Hanover),
– for fitting and splicing in the conveyor (belt delivered as **open roll material** to the customer’s premises).

To ensure flawless, quick fitting, Forbo Siegling provides its skills at the planning phase already by carrying out **on-site pre-inspections**. The goal is to ensure the project is planned perfectly and production is commenced after only two days.

**Wednesday, 8 a.m.**
The fabrication equipment and plasterboard belt, provided by Forbo Siegling, have arrived at the production facility. It’s time to unload.

**Thursday, 8 a.m.**
Our specialists are experienced and work with state-of-the-art equipment that’s especially for plasterboard fitting. The stepped Z-splice is prepared carefully.
Thursday, 11 a.m.
The splice is in the press. Ideal heating settings and control units ensure the splice is strong and leaves no markings.

Wednesday, 2 p.m.
It’s no easy feat, the belt is untensioned, cut, pulled out of the conveyor and wound up.

Wednesday, 3 p.m.
The belt is tensioned and tracked. After inserting the taper edge belts, production can start up again.

Wednesday, 5 p.m.
Now it’s time to really get going. The new PVC belt is on the special winding device provided by us and is inserted into the conveyor.
TRAINING AND REPAIRS

After each new belt is fitted, our experts train customers’ staff on how to operate, clean and maintain the new Forbo Siegling belt in an excellent condition.

Forbo Siegling’s optional repair kit enables customers to repair surface defects such as holes and small scratches within the shortest possible time reliably and by themselves. Therefore, they aren’t forced to wait and pay for any external specialists. The tools and materials are chosen specifically for Forbo Siegling’s unique PVC belt design.

Should serious damage occur and/or you require more advice please contact us directly or our global service network.

ISO 9001 certified

PRODUCTION ON SOLID FOUNDATIONS

Our customers have good reasons to rely on our consistently best-in-class quality standards. In the case of our plasterboard belts, you can inspect belts prior to delivery via factory acceptance test. Furthermore all belts come with their own test certificates and folders that include instructions for handling, cleaning, repairs etc.

Plasterboard repair kit
Art.-No. 870064
Taper edge belts

We offer almost any shape of taper edge belts based on a max. 2.0 mm basic thickness. Excellent flatness, long service lives, superior release characteristics and soft undersides with fabric to protect your forming belt and extend its lifespan are persuasive arguments for this reinforced stretch-free belt.

Infeed/outfeed, transfer belts

Reliable board conveying, especially in wet areas, is an essential criterion for ensuring waste-free board production. Exact positioning of the board without slippage on the belt protects the edges of belts from damage. Forbo Siegling offers customized solutions for hard-wearing transfer belts in the cross transfer, board flipper, dryer in-/out-feed, as well as stacking areas. Based on customers’ requirements, the belt can be fitted in horizontal, inclining or declining positions.
Power transmission belts for live roller conveyors and processing machines

The combination of tension member and coating lend the belts their special profile of characteristics customized to the type of conveyor and drive task. Highly elastic elastomer or polyurethane as coating materials ensure smooth and reliable transmission at any time. The splicing method (Z-splice) for aramide and polyester reinforced types does not require any additional materials and has the necessary flexibility and durability required for their specific purpose of use.

Modular Belting

Because of their construction conventional conveyor belts are not suitable for certain applications. Siegling Prolink plastic modular belts are an excellent solution in these cases: The material is rot-resistant, durable and physiologically safe. As a rule cleaning the belts is simple.
Endless technology

As a leading manufacturer of conveyor and power transmission belts, Forbo Movement Systems has in-depth theoretical and applicational expertise in splicing technology. We keep procedures and equipment technology in tune with current belting developments through close cooperation with users and equipment manufacturers. We provide innovative and functional solutions.

All components are compatible with each other and from one source – for effective and reliable endless splicing:

– High quality tools with all the accessories
– Comprehensive service
– Detailed procedural instructions

Siegling Blizzard HP 160
The turbo-cooled light-weight combo press for belt width up to 1500 mm

The Siegling Blizzard is easy to use with fast cycle time. It sets new standards in splicing conveyor belts. Once you’ve set up the press and pressed the on button, the heating and cooling procedure in the press runs automatically.

The Siegling Blizzard press is supplied with a flight case on rollers. Because it’s so compact and lightweight, it’s quick and easy to set up. It’s ready to use as soon as you’ve plugged it in because there’s no need to connect it to external subsystems.

– The control unit,
– compressor and
– air cooling system are integrated in the press.

This saves time and costs, prevents errors during operation and ensures hygiene on site.

Siegling Blizzard HC 120/40
The new benchmark in efficient heating of splices up to 40 mm belt width

The Siegling Blizzard HC is a new benchmark in quality and speed when heating splices for Siegling Extremultus belts in the aramide, polyester and polyamide lines as well as narrow Siegling Transilon belts. It’s easy to handle and has very short cycles.

After entering the heating temperature, hold-down time and cooling temperature, the process starts automatically as often as you like at the touch of a button.

Automatic heating and air cooling in one single tool
– prevents mistakes made during handling
– saves having to put the belts and splicing guide into a cooling clamp after heating
– is highly efficient due to short cycles
– delivers excellent splicing results with superior repeat accuracy.
Due to its broad range of high quality lightweight conveyor belts, Forbo Siegling products are well established in gypsum fiberboard plants. They are found in raw material preparation for conveying gypsum and paper fibers, to bunker bottoms, feeding and extracting belts, to spreading bin belts and spreading belts. These are followed by press belts, upper press belts, forming belts and various belts for board conveying, such as in-/out-feeders for the dryers and stackers, as well as stack conveyors.

All these different processing tasks require specific belt characteristics such as durability, lateral stiffness, optimized surface patterns and so on.

Forbo Siegling offers specialised belts for almost any application and professional technical support during fitting and maintenance. Please contact our sales organization for a specific solution.
siegling transilon
conveyor and processing belts

Siegling Transilon

<table>
<thead>
<tr>
<th>Article number</th>
<th>Total thickness approx. [mm]</th>
<th>Weight approx. [kg/m²]</th>
<th>Effective pull at 1% elongation (k1% relaxed) [N/mm width]*</th>
<th>dmin approx. [mm]**</th>
<th>Permissible operating temperature [°C]</th>
<th>Hardness of the top face coating [Shore A]</th>
<th>Top face pattern</th>
<th>Splice</th>
<th>Mechanical splice</th>
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<tbody>
<tr>
<td>E 6/1 V1/V4 MT-NA white</td>
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<td>2.00</td>
<td>2.25</td>
<td>5.50</td>
<td>40</td>
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<td>62</td>
<td>Matt</td>
<td>Z</td>
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<td>E 8/2 U0/V5 green</td>
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<td>2.10</td>
<td>2.50</td>
<td>7.50</td>
<td>30</td>
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<td>Matt</td>
<td>Z, ZS</td>
</tr>
<tr>
<td>E 8/2 V5/V5 STR/GL green</td>
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<td>Normal texture</td>
<td>Z, ZS</td>
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<tr>
<td>E 8/2 U0/V7 S black</td>
<td>900289</td>
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<td>2.45</td>
<td>6.00</td>
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<td>Matt</td>
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<tr>
<td>E 8/2 U0/V10 S black</td>
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<tr>
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<td>Z, ZS</td>
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<td>Z, K</td>
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<tr>
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<td>75</td>
<td>Normal texture</td>
<td>Z, ZS</td>
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<tr>
<td>E 12/2 U0/V20 green</td>
<td>900262</td>
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<td>4.10</td>
<td>10.50</td>
<td>60</td>
<td>-10/+70</td>
<td>75</td>
<td>Smooth surface</td>
<td>Z, ZS</td>
</tr>
<tr>
<td>E 12/2 U0/U2 MT blue</td>
<td>906782</td>
<td>1.70</td>
<td>1.80</td>
<td>12.50</td>
<td>20</td>
<td>-30/+100</td>
<td>85</td>
<td>Matt</td>
<td>Z, ZS</td>
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<tr>
<td>E 18/H U0/U2 MT white FDA</td>
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<td>1.75</td>
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<td>20</td>
<td>-30/+100</td>
<td>85</td>
<td>Matt</td>
<td>Z</td>
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<td>9.00</td>
<td>11.00</td>
<td>20.00</td>
<td>400</td>
<td>-10/+70</td>
<td>85</td>
<td>Matt</td>
<td>Z</td>
</tr>
</tbody>
</table>

Scraper for setting belt 882155

Scraper

Material: Polyurethane co-extruded, EU and FDA compliant
Lip: Shore A75
Body: Shore D 60
Color: RAL 3012
Art.no. 882155
### Legend

#### Tension members
- **E** = Polyester
- **NOVO** = Polyesterfelt

#### Coatings
- **U** = Polyurethane
- **U0** = Polyurethane impregnation
- **V** = Polyvinyl chloride
- **VH** = Polyvinyl chloride hard

#### Patterns
- AR = Rough-top
- GL = Smooth surface
- MT = Matt
- SG = Lattice
- STR = Normal texture

#### Splicing
- **K** = Wedge splice
- **S** = Overlap splice
- **Z** = Z-splice
- **ZS** = Stepped Z-splice
- **CS** = Clamp fasteners
- **HS** = Hook fasteners
- **KS** = Plastic fasteners

#### Belt properties
- NA = Non-antistatic

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<table>
<thead>
<tr>
<th>Gypsum plasterboard</th>
<th>Gypsum fiberboard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setting/Forming belts</td>
<td>Splicing belt</td>
</tr>
<tr>
<td>Transfer belts horizontal</td>
<td>In feeder/outfeed belts dryer</td>
</tr>
<tr>
<td>Transfer belts inclining/declining</td>
<td>Taper edge belts</td>
</tr>
<tr>
<td>Live Roller Belts</td>
<td>Transfer belts horizontal</td>
</tr>
<tr>
<td>Scrap discharge belt</td>
<td>Transfer belts inclining/declining</td>
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</tbody>
</table>

Please note: the values stated are nominal and can fluctuate in a belt whose width is a result of production processes. Our products are constantly adapted to market requirements. Consequently, changes in technical parameters can occasionally occur. Therefore, please see the current product data sheets for specific information on designs and calculations.

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### Notes
- **Established in line with ISO 21181:2005**
- **The smallest permissible drum diameters were established at room temperature with z-splices and counter bending and do not apply to conveyor belts with mechanical fasteners. Lower temperatures, profiles and side walls can require larger drum diameters. On this point, see our brochure “Technical information 2” (ref. no. 318)**
- **rX is the radius of a fixed knife edge**
- **dX is the diameter of a rolling knife edge**
- **YES**
# SIEGLING GYPSUM PRODUCT RANGE
## TRANSTEX, EXTREMULTUS, PROLINK

### SIEGLING TRANSTEX, EXTREMULTUS, PROLINK

#### SIEGLING TRANSTEX
**Conveyor Belts**

<table>
<thead>
<tr>
<th>Article number</th>
<th>Total thickness approx. [mm]</th>
<th>Weight approx. [kg/m²]</th>
<th>Effective pull at 1% elongation [N/mm width]</th>
<th>Nominal effective pull approx. [Nm/m belt width]**</th>
<th>Standard width supplied [mm]</th>
<th>Permissible operating temperature [°C]</th>
<th>Elongation at fitting [%]</th>
<th>Top face pattern</th>
<th>Features underside</th>
<th>Splice</th>
<th>Mechanical splice</th>
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<tbody>
<tr>
<td>PVC200 OFR-OFAH CFC white</td>
<td>908308</td>
<td>6.1</td>
<td>11.5</td>
<td>1828</td>
<td>89</td>
<td>-18/+82</td>
<td>0.6 – 1.5</td>
<td>Smooth</td>
<td>Smooth</td>
<td>Z, K</td>
<td>HS, CS</td>
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<tr>
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<td>908799</td>
<td>4.1</td>
<td>8.5</td>
<td>1828</td>
<td>51</td>
<td>-18/+82</td>
<td>0.6 – 1.5</td>
<td>Rough-top, mini brush</td>
<td>Coarse fabric, brushed</td>
<td>Z, K</td>
<td>HS, CS</td>
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<tr>
<td>PHRF-90MF Grade II RTXBB black</td>
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<td>89</td>
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<td>Fabric, FR impregnated</td>
<td>K</td>
<td>HS, CS</td>
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#### SIEGLING EXTREMULTUS
**Flat Belts**

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<th>Article number</th>
<th>Total thickness approx. [mm]</th>
<th>Weight approx. [kg/m²]</th>
<th>Effective pull at 1% elongation [N/mm width]</th>
<th>Nominal effective pull approx. [Nm/m belt width]**</th>
<th>Standard width supplied [mm]</th>
<th>Permissible operating temperature [°C]</th>
<th>Elongation at fitting [%]</th>
<th>Specific shaft load [N/mm belt width] at 1% elongation***</th>
<th>Surface pattern underside</th>
<th>Surface pattern top face</th>
<th>Splice</th>
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<tr>
<td>RR 20E-60 grey FDA</td>
<td>822155</td>
<td>6</td>
<td>6.65</td>
<td>14</td>
<td>500</td>
<td>60</td>
<td>-20/+70</td>
<td>0.8 –1.5</td>
<td>23</td>
<td>Normal texture</td>
<td>Normal texture</td>
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<tr>
<td>GG 14P-60 green</td>
<td>850327</td>
<td>6</td>
<td>6.8</td>
<td>14</td>
<td>510</td>
<td>50</td>
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<td>Normal texture</td>
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<td>2.7</td>
<td>25</td>
<td>500</td>
<td>40</td>
<td>-20/+70</td>
<td>0.2 – 0.5</td>
<td>100</td>
<td>Normal texture</td>
<td>Fine texture</td>
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<tr>
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<td>2.75</td>
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<td>500</td>
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<td>0.8 – 1.5</td>
<td>30</td>
<td>Normal texture</td>
<td>Fine texture</td>
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#### SIEGLING PROLINK
**Modular Belts**

<table>
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<th>Article number</th>
<th>Total thickness approx. [mm]</th>
<th>Weight approx. [kg/m²]</th>
<th>Allowable belt pull [N/mm]</th>
<th>Permissible operating temperature [°C]</th>
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<tbody>
<tr>
<td>57-0 FLT POM AT</td>
<td>18.0</td>
<td>18.3 (22.8)</td>
<td>50 (60)</td>
<td>-45/+90</td>
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<tr>
<td>58-0 FLT POM-CR AT</td>
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<td>11.0</td>
<td>40</td>
<td>-45/+90</td>
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<td>15.0</td>
<td>11.5</td>
<td>30</td>
<td>-45/+90</td>
</tr>
</tbody>
</table>
### Legend

**Series**
- PVC = Interwoven PVC
- PHR = Package Handling rubber

**Special tension member designs**
- MF = Polyester monofilament weft

**Belt properties**
- FR = Flame Retardant, ASTM D-378
- Grade II = Less abrasion resistant
- styrene-butadiene-rubber
- OFR = Oil, fat resistant
- ORG = OSHA/MSHA Premium Oil Resistant to grain oils
- P = Standard PVC
- NA = Non antistatic

**Splicing**
Abbreviations see previous page.

- * Established in line with ISO 21181:2005
- ** The smallest permissible drum diameters were established at room temperature and do not apply to conveyor belts with mechanical fasteners. Lower temperatures require bigger drum diameters. Belts with profiles or sidewalls might require bigger drum diameters.
- ● Yes

**Patterns/Coatings**
- B = Rough fabric, brushed, low friction
- BB = Fabric with resorcin-formaldehyde-latex-impregnation
- MRT = Rough-top, mini
- RT = Rough-top

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<th>Series</th>
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<tr>
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</table>

**Materials**
- POM = Polyoxymethylene (Polyacetal)
- POM-CR = POM cut resistant

**Colors**
- AT = Anthracite
- UC = Uncolored

The values stated were identified in standard ambient conditions (23 °C, 50 % rel. humidity).
- * Lower temperatures require larger drum diameters. For the Polyamid line, this also applies in the case of low humidity.
- ** The nominal effective pull specifies the power transmission at the nominal elongation at fitting and 180° arc of contact in N/mm belt width.
- *** Relaxed specific shaft load at 1 % elongation at fitting and 180° arc of contact in N/mm belt width.
- **** As Live Roller Belts
- ● Yes

Please note: the values stated are nominal and can fluctuate in a belt whose width is a result of production processes. Our products are constantly adapted to market requirements. Consequently, changes in technical parameters can occasionally occur. Therefore, please see the current product data sheets for specific information on designs and calculations.
Committed staff, quality-orientated organization and production processes ensure the constantly high standards of our products and services. The Forbo Siegling Quality Management System is certified in accordance with ISO 9001.

In addition to product quality, environmental protection is an important corporate goal. Early on we also introduced an environmental management system, certified in accordance with ISO 14001.

Forbo Siegling service – anytime, anywhere
The Forbo Siegling Group employs more than 2,300 people. Our products are manufactured in nine production facilities across the world. You can find companies and agencies with warehouses and workshops in over 80 countries. Forbo Siegling service points are located in more than 300 places worldwide.

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