

siegling
belting

THE FULL BELTING SCOPE FOR THE **GYPSUM INDUSTRY** FROM ONE SINGLE SOURCE





A ONE-STOP SOURCE OF THE FULL BELTING RANGE FOR THE GYPSUM INDUSTRY

When you need to produce top quality despite huge 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 2,200 employees in over 80 countries globally. There are more than 300 service points in places all over the world.

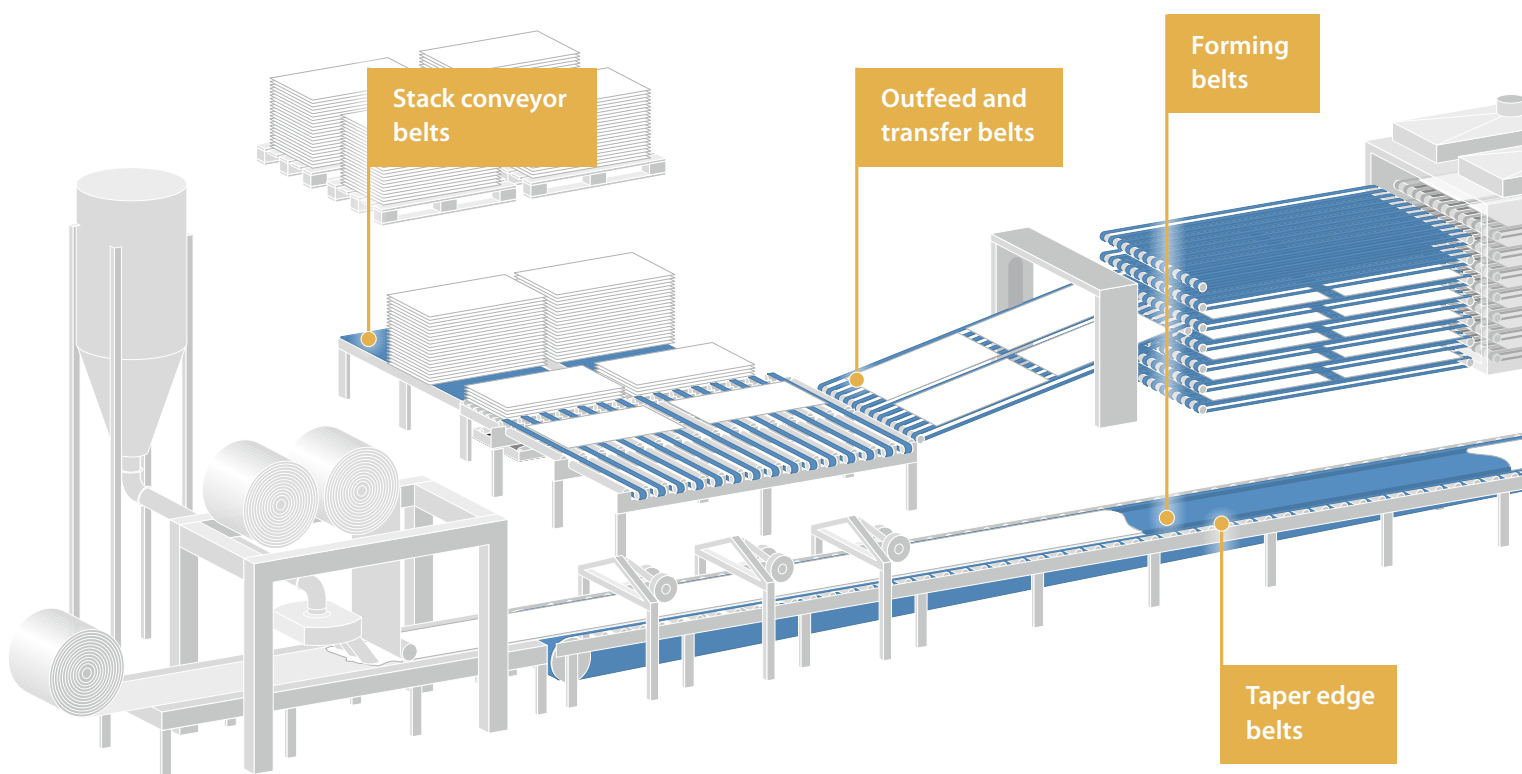
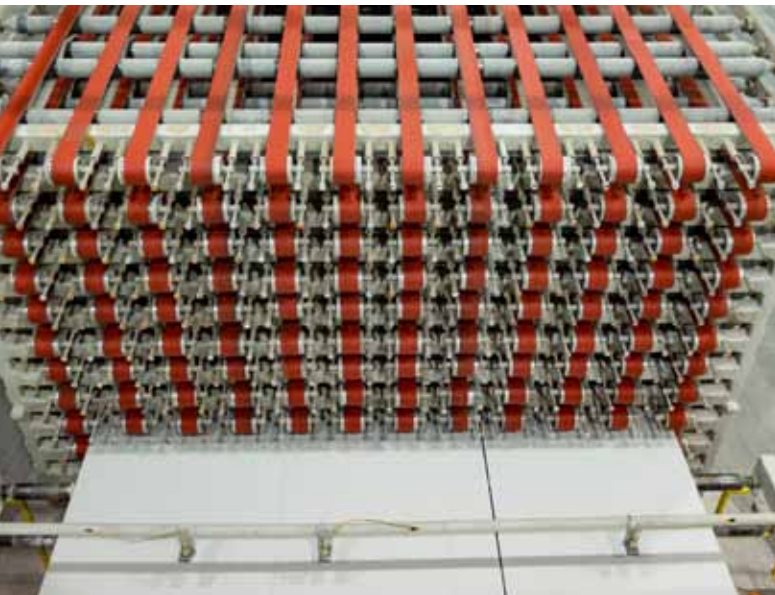
**Innovative, reliable
belting products**

**Tools, processes and
instructions**

**Comprehensive
application-driven
expertise**

**A whole host of
services**



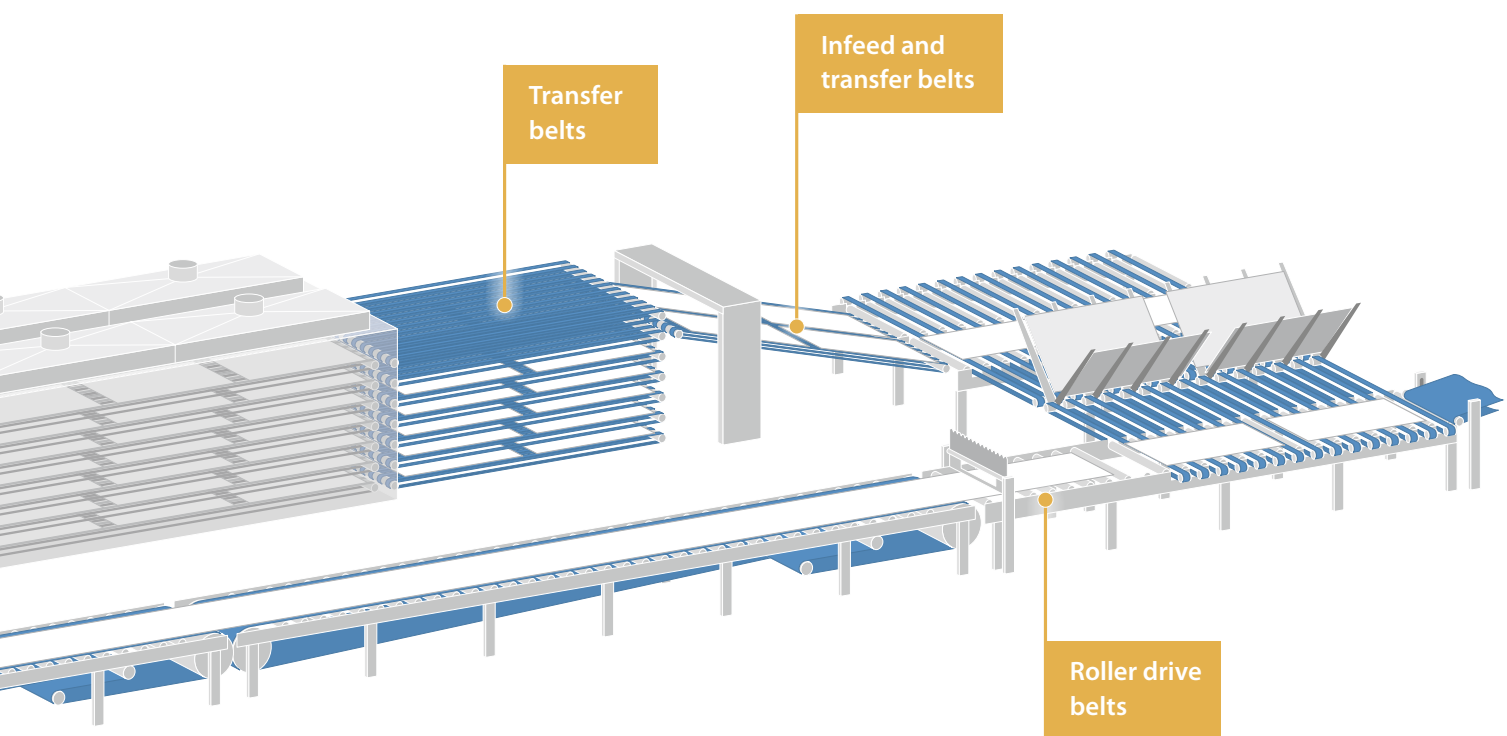


SIEGLING BELTING

THE RIGHT SPECIALISTS FOR EVERY STEP

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.



SIEGLING TRANSILON PLASTERBOARD BELTS ARE THE VERY BEST THE MARKET HAS TO OFFER



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.

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

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.

Technical information

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

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

Thin but strong double-ply, extremely strong special polyester fabric, low elongation and very laterally stiff.

Type designation	E X/2 V28/V28 MT/MT
Article number	906737
Colour	grey
Coating thickness	[mm (in)] 2.8 (0.11) on both sides
Number of plies	2
Total thickness approx.	[mm (in)] 9 (0.35)
Weight approx.	[kg/m ² (lb/ft ²)] 11 (2.2)
Belt tension at fitting	[%] 0.3–0.4
Tensile strength	[N/mm] 670
Elongation at break	[%] 30
d _{min} approx.	[mm (in)] 400 (15.7)
Width supplied max.	[mm (in)] 3100 (122) (wider width on request)
Max. length without splice	[m (ft)] 230 (754)
Permitted operating temperature [°C (°F)]	-10/+70 (14/158)
Top-face coating	PVC homogeneous
Surface hardness	[Shore A] 85
Tension member	low elongation, high-tech fabric
Endless splice (Type)	70 mm (Z-stepped)
Belt edges	cut

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

No. Title

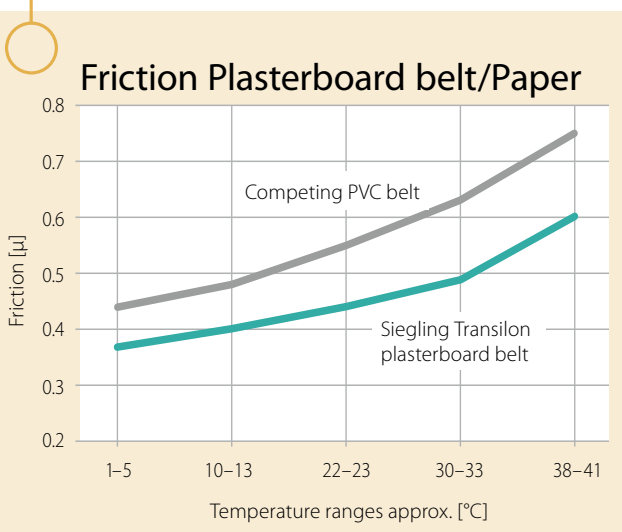
305 Siegling Transilon – Recommendations for Machine Design

309 Siegling Transilon – Chemical Resistance Properties

317 Siegling Transilon – Technical Information 1 · Storage, Finishing, Fitting

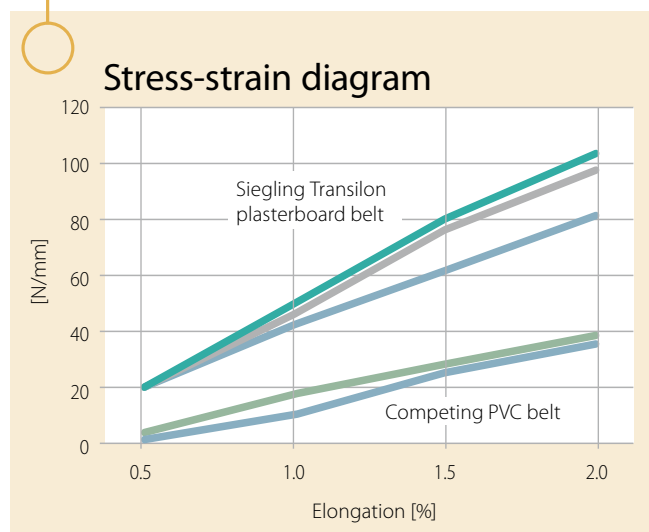
Low friction

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.



SIEGLING TRANSILON **PLASTERBOARD BELTS** BELT REPLACEMENT IN 48 HOURS

To fit the belts, Forbo Siegling can offer state-of-the-art equipment for rental, close to where our customers are based. A team of dedicated experts and local technicians are at our customers' disposal at all times.

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.



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



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.



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.

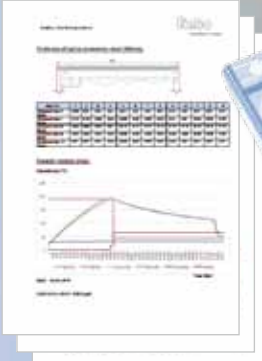


Thursday, 3 p.m.
The belt is tensioned and tracked. After inserting the taper edge belts, production can start up again.



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.



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.

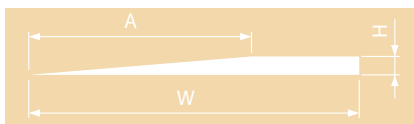


Plasterboard repair kit
Art.-No. 870064

SIEGLING BELTING ALL CONVEYING AND PROCESSING JOBS WELL UNDER CONTROL

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 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 aramid 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.



SIEGLING BELTING **FOR GYPSUM FIBERBOARD PLANTS**

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.

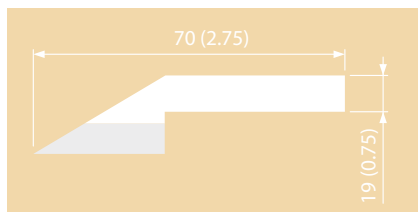
Forbo Siegling offers specialised belts for almost any application and professional technical support during fitting and maintenance. Please contact our sales organization for a specific solution.



SIEGLING GYPSUM PRODUCT RANGE TRANSILON

siegling transilon conveyor and processing belts		Article number	Total thickness approx. [mm]	Weight approx. [kg/m ²]	Effective pull at 1% elongation (k _{1%} relaxed) [N/mm width]*	Belt width max. [mm]	d _{min} approx. [mm]**	Permissible operating temperature [°C]	Hardness of the top face coating [Shore A]	Top face pattern	Melt splice	Mechanical splice
Siegling Transilon												
E 6/1 V1/V14 MT-NA white	906639	2.00	2.25	5.50	3100	40	-10/+70	62	Matt	Z	HS	
E 8/2 U0/V5 green	900025	2.10	2.50	7.50	4600	30	-10/+70	75	Smooth	Z; ZS; Ü	KS; HS; CS	
E 8/2 U0/V2H MT green	900208	1.50	1.65	7.50	3000	40	-10/+70	85	Matt	Z; ZS; Ü	KS; HS; CS	
E 8/2 U0/V5H MT black	900026	2.20	2.50	7.50	4600	40	-10/+70	85	Matt	Z; ZS; Ü	KS; HS; CS	
E 8/2 V5/V5 STR/GL green	900030	2.65	3.20	6.50	3000	40	-10/+70	75	Normal textured	Z; ZS; Ü	KS; HS; CS	
E 8/2 U0/V7 SG black	906286	2.30	2.65	6.00	3100	40	-10/+70	45	Lattice	Z	HS; CS	
E 8/2 U0/V10 SG green	900086	2.60	2.85	7.00	3000	40	-10/+70	45	Lattice	Z; ZS; Ü	KS; HS; CS	
E 8/2 U0/V20 AR green	900037	4.90	4.00	6.00	1500	40	-10/+70	45	Anti-skid	Z; ZS; Ü	KS; HS; CS	
E 8/2 U0/V20 AR black	900087	4.90	4.00	6.00	1500	40	-10/+70	45	Anti-skid	Z; ZS; Ü	KS; HS; CS	
E 8/2 U0/V30 STR red	906668	5.60	6.00	5.50	3100	60	-10/+70	68	Normal textured	Z	KS; HS; CS	
E 10/M V1/V20 AR black	900069	5.00	4.10	5.00	3100	60	-10/+70	45	Anti-skid	Z; K	KS; HS; CS	
E 12/2 U0/G20 AR green	906217	5.50	4.00	8.00	2400	90	-30/+100	-	Anti-skid	Z	KS; HS	
E 12/2 U0/V7 green	900045	2.85	3.40	10.50	4650	60	-10/+70	75	Smooth	Z; ZS; Ü	KS; HS; CS	
E 12/2 V5/V10 STR/GL green	900053	3.25	3.90	11.50	3100	60	-10/+70	75	Normal textured	Z; ZS; Ü	KS; HS; CS	
E 12/2 U0/V20 green	900262	3.35	4.10	10.50	3000	60	-10/+70	75	Smooth	Z; ZS; Ü	KS; HS; CS	
E 12/2 U0/U2 MT blue	906782	1.70	1.80	12.50	3800	20	-30/+100	85	Matt	Z; ZS		
E 18/H U0/U2 MT white FDA	906420	1.75	1.75	17.50	4750	20	-30/+100	85	Matt	Z	KS; CS	
E X/2 V28/V28 MT/MT grey	906737	9.00	11.00	22.00	3100	400	-10/+70	85	Matt	ZS		
Scraper for setting belt	882155											

Scraper



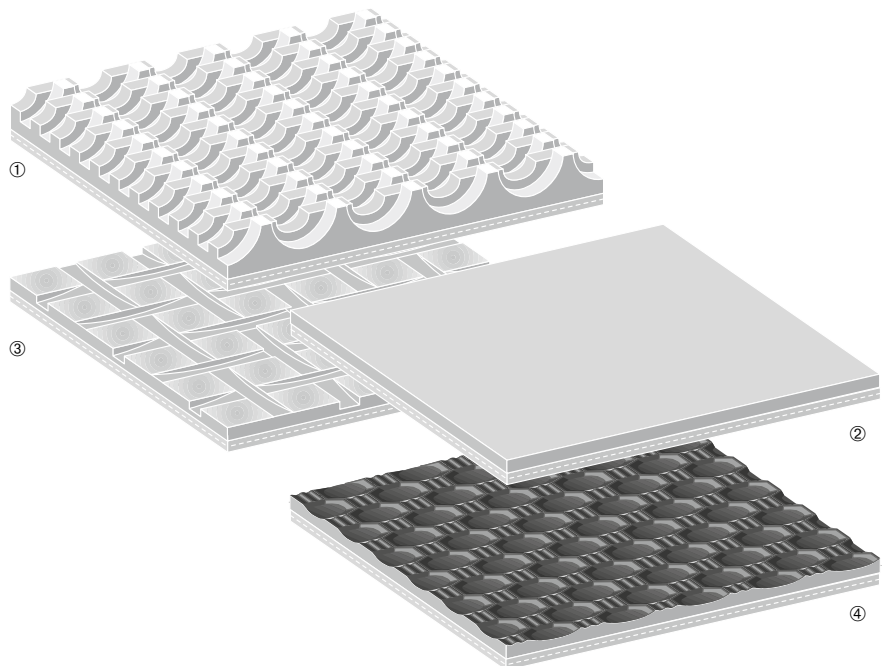
Material: Polyurethane
co-extruded,
EU and FDA compliant

Lip: Shore A75


Body: Shore D 60

Color: RAL 3012

Art.no. 882155



SIEGLING GYPSUM PRODUCT RANGE TRANSTEX, EXTREMULTUS, PROLINK

 siegling transtex conveyor belts		Article number	Total thickness approx. [mm]	Weight approx. [kg/m ²]	Effective pull at 1% elongation (k _{1%} relaxed) [N/mm width]*	Standard width supplied [mm]	d _{min} approx. [mm]**	Permissible operating temperature [°C]	Elongation at fitting [%]	Top face pattern	Features underside	Melt Splice	Mechanical splice
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Siegling Transtex													
PVC200 OFR-OSAH CFC white	908308	6.1	7.8	18	1828	90	-18/+82	0.6–1.5	smooth	smooth	Z; K	HS; CS	
PVC120 MRTXB-NA black FR	908799	3.9	4.1	10.5	1828	50	-18/+82	0.6–1.5	mini rough top	brush fabric	Z; K	HS; CS	
PHR2-90MF Grade II RTXBB black	908214	7	6.5	5	1828	90	-29/+107	0.4–2.0	rough top	bareback fabric	K	HS; CS	

 siegling extremultus flat belts		Article number	Total thickness approx. [mm]	Weight approx. [kg/m ²]	Nominal effective pull approx. [N/mm belt width]	Standard width supplied [mm]	d _{min} approx. [mm]**	Permissible operating temperature [°C]	Elongation at fitting [%]	Specific shaft load [N/mm belt width] at 1% elongation	Top face pattern	Surface pattern underside	Melt splice
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Siegling Extremultus													
RR 20E-60 grey FDA	822155	6	6.65	20	500	60	-20/+70	0.3–2.0	23	Normal pattern	Normal pattern	Z	
GG 14P-60 green	850327	6	6.8	14	510	50	-20/+80	1.5–3.0	14	Normal pattern	Normal pattern	K	
GG 25A-25 NSTR/FSTR grey/black	822130	2.5	2.7	25	500	40	-20/+70	0.3–1.0	55	Normal pattern	Fine textured	Z	
GG 30E-25 NSTR/FSTR grey/black	822126	2.5	2.75	30	500	30	-20/+70	0.3–2.0	30	Normal pattern	Fine textured	Z	
GG 20P-25 NSTR/FSTR grey/black	855606	2.5	2.8	20	510	60	-20/+80	1.5–3.0	20	Normal pattern	Fine textured	K	

 siegling prolink modular belts		Article number	Total thickness approx. [mm]	Allowable belt pull [N/mm] Plastic pins (Stainless steel pins)	Permissible operating temperature [°C]
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Siegling ProLink					
S7-0 FLT POM AT	18	18.6	50 (60)*	-45/+90	
S8-0 FLT POM-CR AT	10.5	10.6	40	-45/+90	
S9-57 GRT G POM-CR UC	15.0	11.5	30	-45/+90	

Key

Gypsum plasterboard Gypsum fiberboard			
Live roller drive	In-/Declining board transport		
●			
	●		
	●		

Series
PVC = Interwoven PVC
PHR = Package-handling rubber

Tension member
MF = Monofilament fabric

Belt feature
FR = Flame Retardant, ASTM D-378
Grade II = Abrasion resistant
OFR = Oil, fat resistant
ORG = OSHA/MSHA Premium Oil Resistant to grain oils
P = Standard PVC
NA = Non antistatic

Top face/underside feature

B = Brush fabric
BB = Bareback fabric
MRT = Mini-rough top

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

Gypsum plasterboard Gypsum fiberboard			
Live roller drive	Paper unwinding	Dryer Infeed-/Discharge belts	Board transport belt
●	●	●	●
●	●	●	●
●			●

Tension member
A = Polyolefin
E = Polyamide

Top face/underside
R = High Grip
G = Elastomer G

FSTR = Fine textured pattern
NSTR = Normal pattern

** 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

Gypsum plasterboard Gypsum fiberboard			
Palette-/Stacktransport	Board transport	Curved belt	
●	●		
●	●		
		●	

Series
SX = Siegling Prolink Series X

Top face
FLT = Flat top (smooth)
GRT = Grid top

Material
POM = Polyoxymethylene (Polyacetal)
POM-CR = POM cut resistant

Color
AT = Anthracite
UC = Uncolored

● 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.

Siegling – total belting solutions

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.



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Forbo Siegling service – anytime, anywhere

The Forbo Siegling Group employs more than 2,200 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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MOVEMENT SYSTEMS