

Logistics

siegling
belting




NEW

Product Finder



The easy way to find the right belt for your conveyor.

www.forbo-siegling.com



A reliable, quick route to the market

Due to the widespread reduction in traditional warehousing and much lower stock levels in supply chains, lead times from production to the consumer are increasingly shorter.

So accurate order picking and distribution are increasingly playing a key role in a company's success.

This places high demands on the performance and reliability of systems and requires first-class components.

Specialised research in close co-operation with users and OEM's, ensures that Forbo Siegling products give maximum performance in the logistics industry.

- They are totally reliable for all types of conveying.
- They can cope with very high demands when conveying different types of goods.
- They are particularly economical to operate.

They are used in all sorts of very different applications. So please draw on the competent experience with applications your Forbo Siegling contact person has to offer.

24 hour service
24

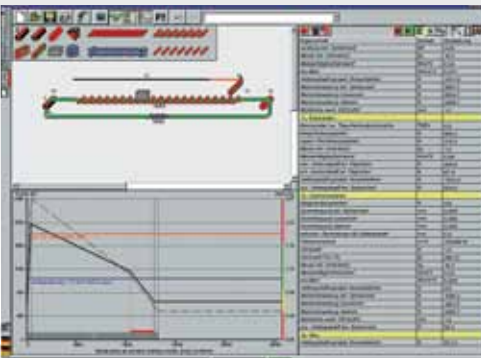


Reliable fitting: With the B_Rex calculation programme

B_Rex means that designers and users can simulate nearly every possible conveyor configuration using Forbo Siegling conveyor and power transmission belts.

So calculating how to fit conveyors and belt drives is much easier, quicker and more accurate.

The B_Rex page under www.forbo-siegling.com provides more detailed information on this.



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Detailed information on special applications and extra products can be found in the following Forbo Siegling brochures:

Siegling Belting at Airports

Ref. no. 242

Siegling Transtex Conveyor belts

Ref. no. 214

Siegling Transilon Round belts

Ref. no. 229

Siegling Transilon · Siegling Proposition

Conveyor and timing belts

for drag band conveyors

Ref. no. 232

ATEX-compliant Processing belts

Ref. no. 112

Amp Miser™ · The new generation of energy saving conveyor belts

Ref. no. 238

Siegling Prolink Modular belts

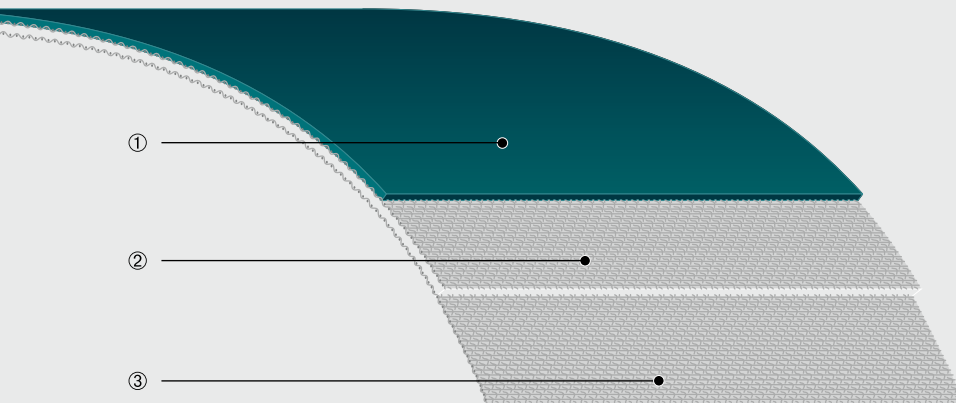
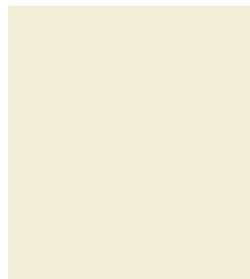
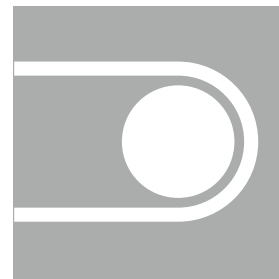
Ref. no. 800



MOVEMENT SYSTEMS

siegling transilon

Conveyor and processing belts for dependable conveying



Siegling Transilon product structure

① **Top face** | Various coating materials, thicknesses and patterns, as well as the chemical, physiological and mechanical properties of the belt influence the grip on the goods conveyed.

② **Tension member** | The use of different special fabrics substantially influences the belt's suitability to the application. Belt tracking, elongation under force behaviour, electrostatic properties, how flat the belts are, knife edges and how much they curve all depend directly on the fabric's structure.

③ **Underside** | Different underside types determine the level of noise, energy consumption as well as wear and tear in the belt and whether it can be used for sliding or rolling support.

The properties

The advantages

low elongation	▶	short take-up ranges, space-saving
longitudinally flexible	▶	small drum diameters possible
Dimensions do not alter	▶	maintenance-free, no re-tensioning
low noise during operation	▶	improved working conditions
durable	▶	economical operation
lightweight with low overall thickness	▶	easy to handle/to put into operation

From robust all-rounders to high-tech specialists:

The Siegling Transilon range for logistics has a huge selection of types for the most varied of conveying tasks.

High performance and economical to use, they support smooth operation in all logistics processes.

Horizontal conveying

Even seemingly simple conveying jobs require numerous different belt properties.

For different goods to be conveyed, speeds, types of reversing, stop and go and accumulation operation and other operating conditions, Forbo Siegling supplies ideal belt types.



Telescopic conveyors
(at the top left)
are suitable for counter bending and can also cope with high point loads.

Accumulation
(bottom left)
requires very smooth, durable surfaces.

Curved conveying

Forbo Siegling's curved belts are suitable for all types of belt tracking systems and are used on the conveyors of many renowned manufacturers. Due to almost completely automatised manufacturing processes Forbo Siegling can guarantee that geometric accuracy is adhered to when supplying fabricated belts.

The manufacture of **curved belts** from several segments means optimum load distribution in the belt so that even heavy goods can be conveyed reliably.





In **cross belt sorters** high acceleration means extremely high friction coefficients in the belt's top face.

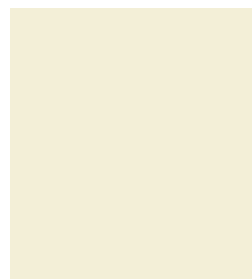
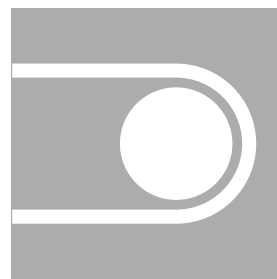
Collection and distribution

When using pushers and dischargers, the lateral stiffness of the belt guarantees it is flat and is directionally stable. Very smooth, tough surfaces make transferring and discharging the goods conveyed possible.

By contrast, cross belt sorters require very thin, flexible belts with high surface friction coefficients. With a special type of tension member, power consumption is very low.



In **merges** the belts that operate in a set, are usually tensioned in one go. This requires particularly low length tolerances. High friction coefficients on the top face guarantee precise transfer to the sorter.



Energy-saving conveyor belts

Forbo Siegling's new Amp Miser™ 2.0 conveyor belts have an innovative smooth layer and are particularly flexible.

Best choice on galvanised slider beds

The second generation of Amp Miser™ types are also perfect on otherwise tricky galvanised slider beds. Compared with the previous belts, the coefficient of friction of this generation has been halved to $\mu < 0.17$. And it's just $\mu < 0.13$ on non-galvanised steel.

Extremely economical consumption

Compared with standard types, in typical applications with long conveyors and heavy loads, up to 50% energy savings are possible, now.



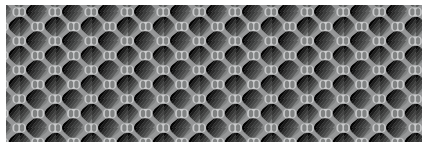
Inclined conveying

Even with smooth belt surfaces the goods can be conveyed on a slope. The conveying angles that can be used here depend on the type of goods, the top face coating and external influences such as dust, moisture etc.

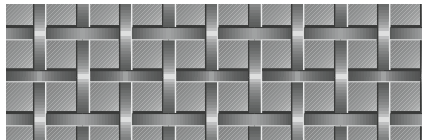
For larger conveying angles and when conveying small components and bulk goods, Forbo Siegling supplies belts with patterns or lateral profiles.



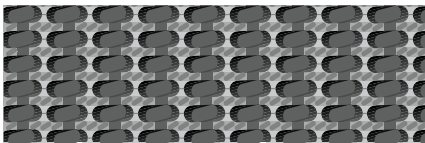
Rhomboid pattern (Scale 1:2)



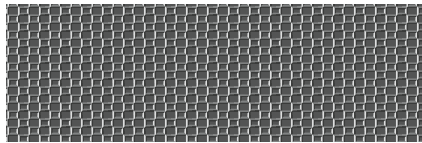
Coarse textured surface (Scale 1:1)



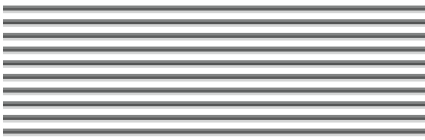
Lattice pattern (Scale 1:1)



Anti-skid pattern (Scale 1:1)



Normal textured pattern (Scale 1:1)



Longitudinal groove (Scale 1:1)



Check-in pattern (Scale 1:4)



Forbo Siegling has developed and optimised a variety of **surface patterns** for very different applications.

With Siegling Transilon patterned belts an angle of incline of up to 30° can be achieved without profiles.

Greater safety with ATEX-compliant processing belts

If required Forbo Siegling can supply belts that are permitted for use in explosive atmospheres.

As we continually add to our ATEX product range, please ask your Forbo Siegling contact person about the types currently available.

Of course we are also available to advise our customers personally on current and future aspects of ATEX.

Product range
Logistics

	Technical data, properties and recommendations, applications	Article no.	Overall thickness approx. [mm]	Weight approx. [kg/m ²]	Effective pull at 1% elongation (k _{1%} relaxed) [N/mm width]*	d _{min} approx. [mm]**	Permissible operating temperature [°C]	Max. width supplied [mm]
E 5/2 0/V5	green	900016	1.95	2.3	3.5	24	-10/+70	3000/4400 ⁴⁾³⁾
E 5/2 0/V5H MT	black	906176	1.9	2.2	3.5	20	-10/+70	2800 ³⁾
E 5/2 0/V5 NP-SE	black	999802	2.1	2.2	4.0	40	-10/+70	2900 ³⁾
E 6/2 U0/U2-M	green FDA	906191	1.9	2.0	5.5	50	-30/+100	1400 ³⁾
E 8/2 0/R10 S/LG	black	906630	2.5	2.3	7.5	40	-30/+100	3000
E 8/2 U0/R15 LG-SE	black	906706	3.2	3.0	8.0	60	-30/+100	3000 ³⁾
E 8/2 U0/U2	green FDA	900320	1.4	1.6	6.5	24	-30/+100	3000/4550 ⁴⁾³⁾
E 8/2 U0/V/U2H MT	green	900170	1.6	1.8	7.5	60	-10/+70	3100 ³⁾
E 8/2 U0/U2 MT-SE	black	906399	1.45	1.55	6.5	14	-30/+100	3100 ³⁾
E 8/2 U0/V/U2H MT-SE	black	906401	1.65	2.0	7.0	50	-10/+70	3000 ³⁾
E 8/2 U0/U2 MT-C-SE	black	906391	1.2	1.4	5.5	14	-30/+100	4300/4300 4) ³⁾
E 8/2 U0/U2 STR-HC	black	900154	1.6	1.8	6.0	25	-30/+100	2100 ³⁾
E 8/2 0/U10 S/LG	green	904358	2.3	2.2	6.0	40	-30/+100	1400 ³⁾
E 8/2 U0/U10S LG-SE	black	906650	2.2	2.4	8.5	30	-30/+100	3000 ³⁾
E 8/2 0/V4H MT	black	906762	1.9	2.1	8.0	40	-10/+70	3100 ³⁾
E 8/2 0/V5 GL	black	906816	2.1	2.35	8.0	40	-10/+70	3150 ³⁾
E 8/2 U0/V5	green	900025	2.1	2.5	7.5	30	-10/+70	4600 ³⁾
E 8/2 0/V5H S/MT	black	996141	2.2	2.5	8.0	40	-10/+70	3000/4500 ⁴⁾³⁾
E 8/2 U0/V5H MT	black	900026	2.2	2.5	7.5	40	-10/+70	3100/4600 ⁴⁾³⁾
E 8/2 V5/V5 STR/GL	green	900030	2.65	3.2	7.0	40	-10/+70	3000 ³⁾
E 8/2 U0/V7 SG	black	906286	2.3	2.45	6.5	40	-10/+70	3100 ³⁾
E 8/2 U0/V10H-M-SE	black	906538	3.1	3.6	8.0	60	-10/+70	4400 ³⁾
E 8/2 0/V10 LG	black	906764	2.7	2.9	8.0	40	-10/+70	3100 ³⁾
E 8/2 U0/V10 LG	anthracite	906593	2.6	2.6	6.5	40	-10/+70	3100 ³⁾
E 8/2 U0/V15 LG	green	900199	3.1	3.4	8.0	40	-10/+70	3100 ³⁾
E 8/2 U0/V15 LG	black	900275	3.1	3.4	7.5	40	-10/+70	3100/4550 ⁴⁾³⁾
E 8/2 U0/V20 AR	black	900087	4.9	4.0	6.0	40	-10/+70	1500 ³⁾
E 8/2 U0/V20 AR	green	900037	4.9	4.0	6.0	40	-10/+70	1500 ³⁾
E 8/H U0/U4 QS	black	906541	1.5	1.6	7.5	24	-30/+100	2000
E 8/H U0/U6S NP	black	906383	1.8	1.65	8.5	14	-30/+100	1510
E 8/H U0/V6 NP	black	906386	1.85	1.6	9.0	14	-10/+70	1500
E 8/H U0/V10S LG	black	906446	2.15	2.1	9.0	60	-10/+70	3000
E 10/2 TX0/V5H MT-AMP	black	906807	1.9	2.1	9.5	40	-10/+50	3000
E 10/2 TX0/V5H MT-SE-AMP	black	906809	2.15	2.4	9.5	40	-10/+50	3000
E 10/2 TX0/V15 LG-AMP	black	906808	2.7	2.9	9.5	40	-10/+50	3000
E 10/2 TX0/V15 LG-SE-AMP	black	906810	2.7	2.9	9.5	40	-10/+50	3000
E 12/2 U0/V/U0	anthracite	906458	2.05	2.2	11.0	60	-10/+70	3000 ³⁾
E 12/2 0/UH	green	906509	1.45	1.5	9.0	40	-30/+100	3100 ³⁾
E 12/2 U0/V/U1 SE	black	906506	2.0	2.3	8.0	60	-10/+70	2800 ³⁾
E 12/2 U0/U2-C	green FDA	900041	1.85	2.0	5.0	60	-30/+100	4100 ³⁾
E 12/2 0/U3 GSTR-C-SE	black	906718	2.1	1.9	4.5	40	-30/+100	3000 ³⁾
E 12/2 U0/V/U4 GSTR-C	black	999979	2.4	2.3	4.0	60	-10/+70	2900 ³⁾
E 12/2 U0/U6S GSTR-C	black	906562	2.3	2.2	5.0	30	-30/+100	3000 ³⁾
E 12/2 U0/V3-C	green	900044	2.3	2.7	4.0	60	-10/+70	4100 ³⁾
E 12/2 0/V3 GSTR-C-SE	anthracite	906784	2.1	2.35	4.0	30	-10/+70	3350 ³⁾
E 12/2 U0/V3 MT-C	black	900264	2.3	2.7	4.0	60	-10/+70	4100 ³⁾
E 12/2 U0/V10 STR-SE	black	900323	3.1	3.8	9.5	60	-10/+70	3100 ³⁾
E 12/2 V5/V10 STR/GL	green	900053	3.25	3.9	11.5	60	-10/+70	3100 ³⁾
E 15/2 U0/V5 MT	green	906728	2.6	2.9	11	90	-10/+70	3000 ³⁾
E 20/2 U0/U7 MT	black	906683	2.6	2.8	14	60	-30/+100	1400 ³⁾
NOVO 25 HC	black	900195	2.8	1.3	7.0	40	-10/+120	2000 ³⁾
NOVO 40 HC	black	900221	4.0	2.2	7.5	90	-10/+120	2000 ³⁾
NOVO 60 HC	black	900286	5.5	3.1	8.0	125	-10/+120	2000 ³⁾

Tension member types

E Polyester

Construction

1, 2, 3 Number of fabric plies

H Hightech-fabric

M Solid-woven material

NOVO Polyester non-woven

Coatings

V PVC

VH Hard PVC

VS Soft PVC

U Urethane

UH Hard urethane

O Uncoated

UO Impregnated

R High Grip

TX0 Texglide

Top face patterns

AR Anti-skid pattern

CH Check-In pattern

GL Smooth surface

GSTR Coarse textured pattern

LG Longitudinal groove

MT Matt surface

NP Inverted pyramid pattern

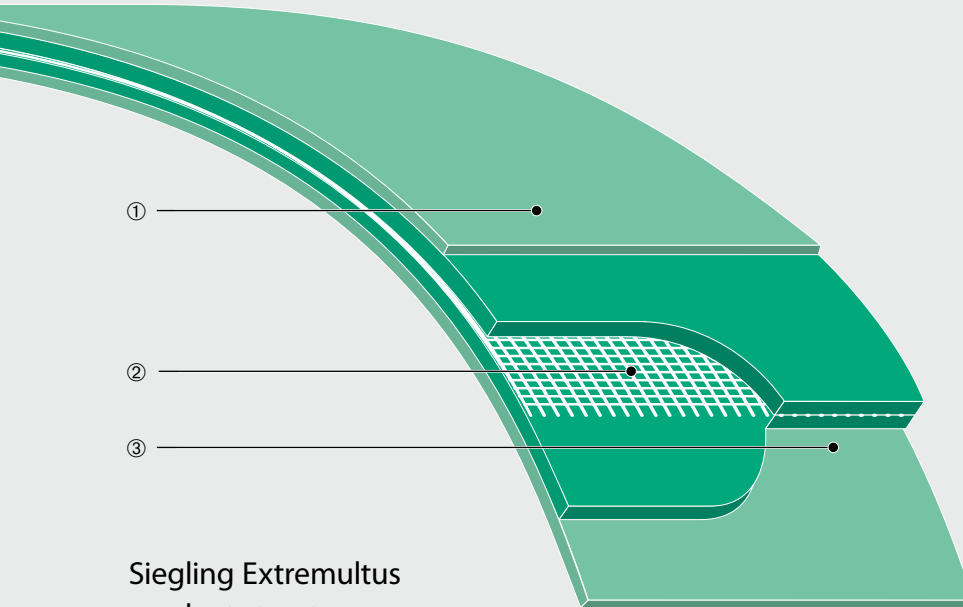
R Rhomboid pattern

SG Lattice pattern

STR Normal textured pattern

siegling extremultus

Power transmission belts for live roller conveyors



Siegling Extremultus product structure

- ① **Friction layer** | Rubber elastomer or urethane.
- ② **Tension member structure** | with tension member made of polyester or aramide fabric or polyamide belt (not shown).
- ③ **Friction layer** | Rubber elastomer or urethane.

The properties

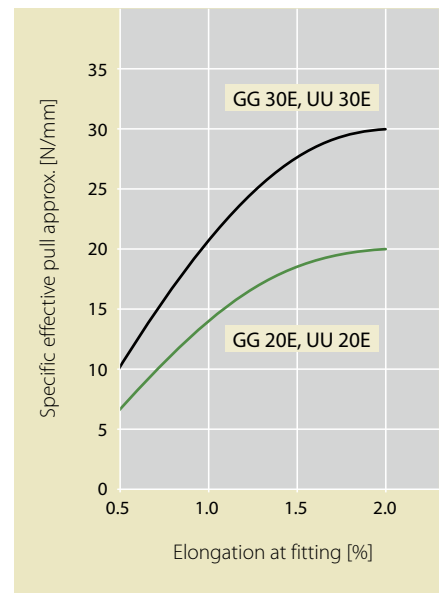
endless splicing without adhesives*	▶	short fitting times
extremely flexible	▶	very small drum diameters possible
does not absorb moisture*	▶	consistent tension, independent of ambient conditions
minimal flexing	▶	low energy consumption

Siegling Extremultus live roller drives are easy to clean and resistant to most oils, grease and many solvents. *Applies to A and E types.

The advantages

The combination of tension member and coating gives the belts its special profile of properties – customised to the type of conveyor and each type of drive task.

The tension member consists of polyamide or alternatively of polyester or aramide fabric embedded in a thermoplastic intermediate layer. Highly elastic elastomer or urethane provide the coating materials.



Live roller drives specific effective pull as a function of elongation at fitting

Product range
Logistics

Technical data, properties and recommendations	Article no.	Overall thickness approx. [mm]	d _{min} approx. [mm]	Nominal effective pull, approx. [N/mm belt width]	Elongation at fitting [%]	Weight approx. [kg/m ²]	Permissible operating temperature [°C]	
E types – polyester fabric tension members								
GG 20E-20	green	822052	2.0	24	20	0.3–2	2.15	–20/+70
GG 30E-25 NSTR/FSTR	gray/black	822126	2.5	30	30	0.3–2	2.75	–20/+70
GG 30E-30 NSTR/NSTR	black	822127	3.0	60	30	0.5–2	3.25	–20/+70
GG 30E-32 FSTR/FSTR	black	822118	3.2	40	26	0.3–2	3.55	–20/+70
UU 20E-16 FSTR/FSTR	green	822055	1.6	30	14	0.3–2	1.85	–20/+70
UU 30E-20 FSTR/FSTR	green	822133	2.0	30	20	0.3–2	2.20	–20/+70
UU 30E-32 FSTR/FSTR	green	822105	3.2	30	14	0.3–2	3.55	–20/+70
TG 30E-30	black/green	822058	3.0	40	30	0.3–2	3.20	–20/+70
A types – aramide fabric tension members								
UU 15A-17 FSTR/FSTR	green	995473	1.7	24	15	0.3–0.8	1.90	–20/+70
P types – polyamide belt tension members								
GG 14P-30	green	850324	3.0	30	14	1.5–3	3.40	–20/+80

E Power transmission belts with polyester fabric tension members can transmit high levels of effective pull and have a very good price/performance ratio.

With different fittings, they are the optimum solution for almost all applications.

- They are the ideal combination of elastic modulus and damping,
- are made endless without any adhesives (short fitting times),
- are simple to handle,
- have short take-up ranges.

A Power transmission belts with aramide fabric tension members are designed for heavy duty service.

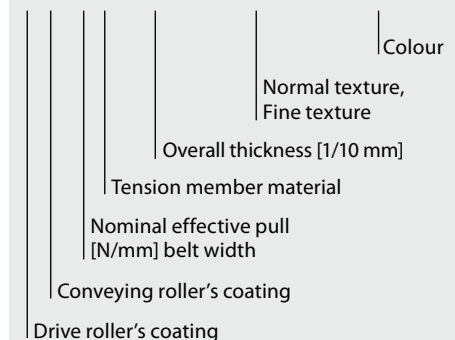
- The high elastic modulus means maximum power transmission,
- very short take-up ranges,
- are made endless without adhesives,
- require special design and specific handling.

P Power transmission belts with polyamide tension members are laterally stiff and have good damping properties.

- They have maximum damping properties,
- are made endless with adhesive,
- strong edges.

Type key for Siegling Extremultus high efficiency flat belts

UU 15A - 17 FSTR/FSTR green
GG 20E - 20 NSTR/FSTR grey/black
GG 14P - 30 green

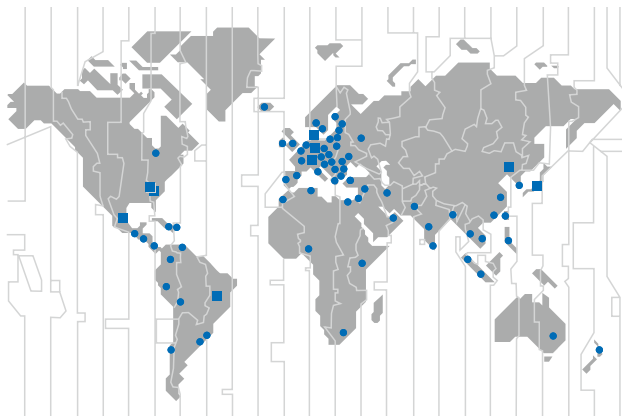


- A** Aramid
- E** Polyester
- G** Rubber/elastomer
- P** Polyamide
- U** Urethane

Siegling – total belting solutions

Committed staff, quality-orientated organisation 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 2,000 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.