

# siegling transilon

conveyor and processing belts



**FULLSEAL**  
LOWER CLEANING COSTS  
AND INCREASED HYGIENE

# FULLSEAL

## LOWER CLEANING COSTS AND INCREASED HYGIENE



Fullseal is a product family made of homogeneous, thermoplastic polyurethane. All Fullseal belts are completely resistant to oils, fats, moisture and bacteria. They are extremely easy to clean and perfect for use in applications in which hygiene is a priority (e.g. dairy products, dough preparation, meat and poultry processing and other food processing applications).

In addition to the hygienic benefits, Fullseal belts with positive drive (PD) or center drive (CD) provide superior technical advantages. Due to the form-fit gear drive, the belts can be precisely positioned and used for slip-free operation.

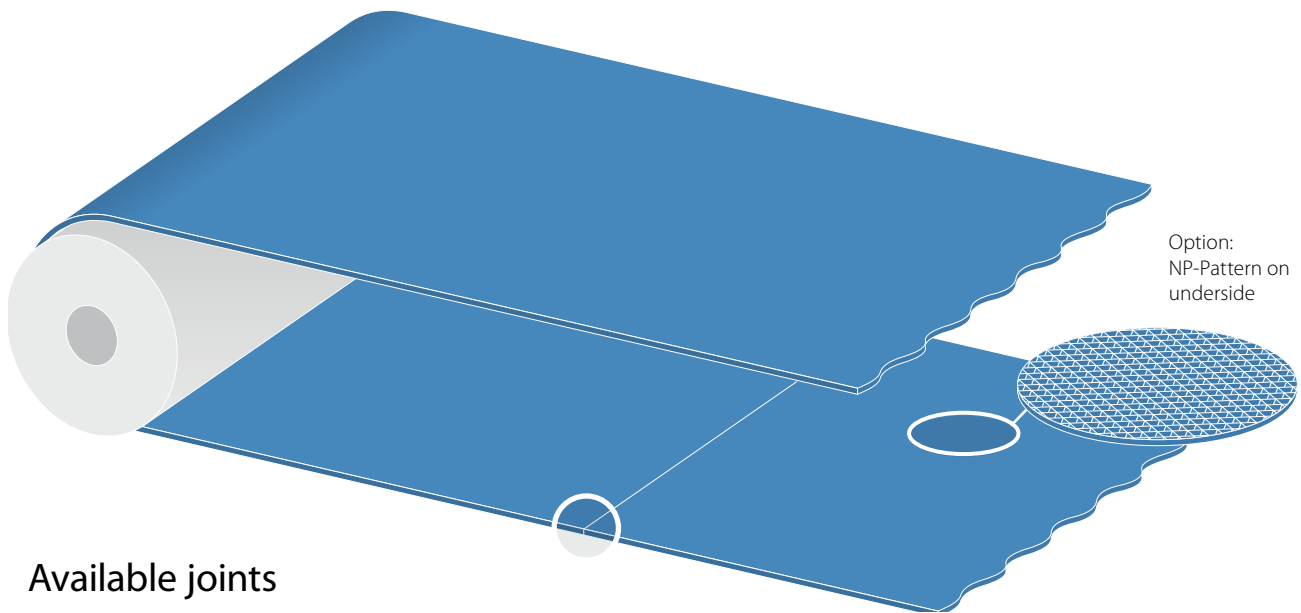
Optional profiles and sidewalls help adapt the belts to perform countless conveying tasks.

### The properties

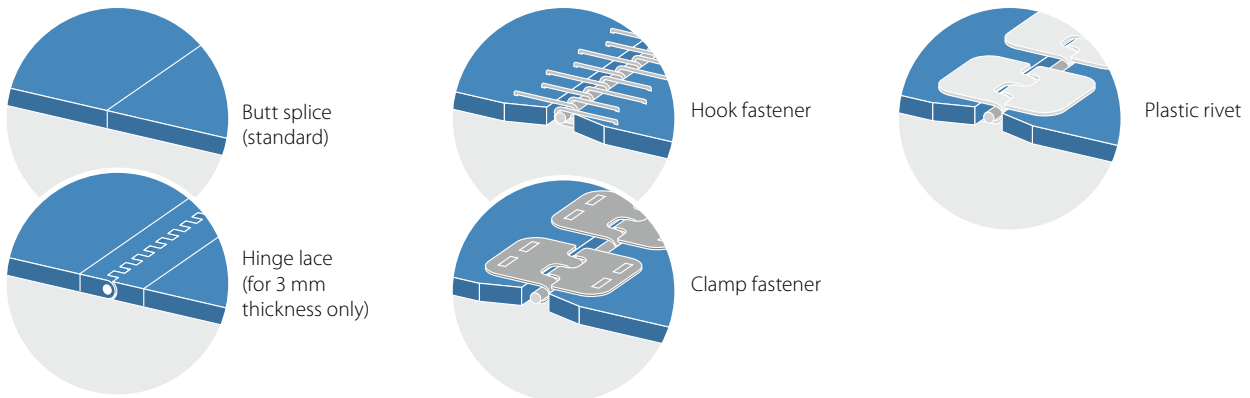
### The advantages

homogeneous material with closed surface, no hinges	▶	less water and cleaning required
centrally positioned drive lugs (center drive version)	▶	selftracking belt, simple conveyor design, eliminates belt damage and product loss
quick and easy butt splice	▶	minimal downtime when changing belts
troughable (center drive version)	▶	enhanced range of applications
HACCP design	▶	smooth surface, color option: blue, hydrolysis-resistant materials, FDA and EU-compliant
USDA authorization for dairy and meat industry	▶	recognized high standard of hygiene
positive drive (center drive/positive drive)	▶	precise positioning and slip-free operation

# FULLSEAL FLAT



## Available joints

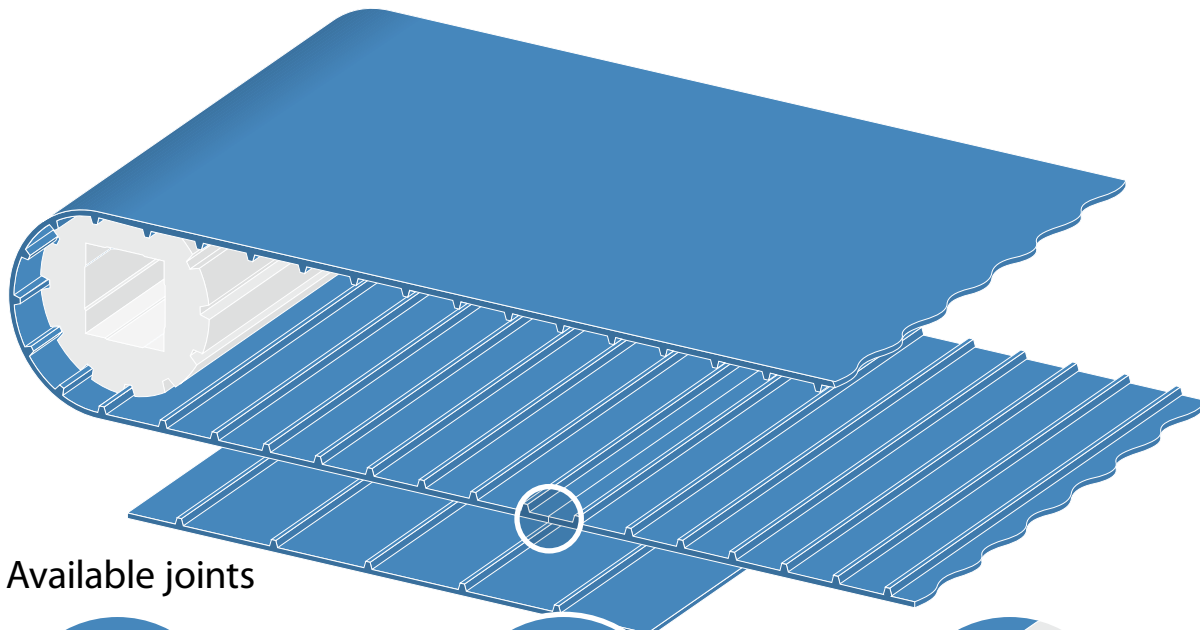


## Technical data

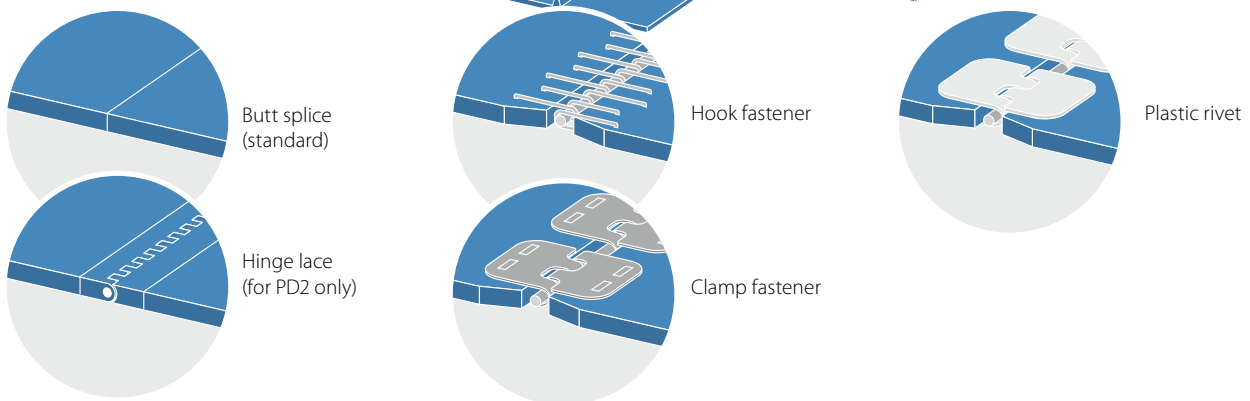
Belt types	Article number	Total thickness approx. [mm (in)]	Effective pull at 1% elongation (k1% relaxed) [N/mm width]	Min pulley $\phi$ with counter bending [mm (in)]	Min pulley $\phi$ without counter bending [mm (in)]	Permissible operating temperature [°C]	Permissible operating temperature [°F]	Standard widths supplied [mm (in)]
<b>Fullseal</b>								
FLT U20 GL/GL-NA-HACCP beige FDA	500471	2 (0.08)	1.0	30 (1.18)	30 (1.18)	-9/+71	+15/+160	1524 (60)
FLT U20 GL/GL-NA-HACCP blue FDA	500458	2 (0.08)	1.0	30 (1.18)	30 (1.18)	-9/+71	+15/+160	1524 (60)
FLT U20 NP/GL-NA-HACCP beige FDA	500470	2 (0.08)	1.0	30 (1.18)	30 (1.18)	-9/+71	+15/+160	1000 (39.4)
FLT U20 NP/GL-NA-HACCP blue FDA	500457	2 (0.08)	1.0	30 (1.18)	30 (1.18)	-9/+71	+15/+160	1000 (39.4)
FLT U30 GL/GL-NA-HACCP beige FDA	500472	3 (0.12)	1.5	40 (1.57)	40 (1.57)	-9/+71	+15/+160	1524 (60)
FLT U30 GL/GL-NA-HACCP blue FDA	500468	3 (0.12)	1.5	40 (1.57)	40 (1.57)	-9/+71	+15/+160	1524 (60)
FLT U30 NP/GL-NA-HACCP beige FDA	500473	3 (0.12)	1.5	45 (1.77)	45 (1.77)	-9/+71	+15/+160	1000 (39.4)
FLT U30 NP/GL-NA-HACCP blue FDA	500469	3 (0.12)	1.5	45 (1.77)	45 (1.77)	-9/+71	+15/+160	1000 (39.4)

- Blue (RAL 5015)
- Beige (RAL 1013)

# FULLSEAL POSITIVE DRIVE



## Available joints



## Technical data

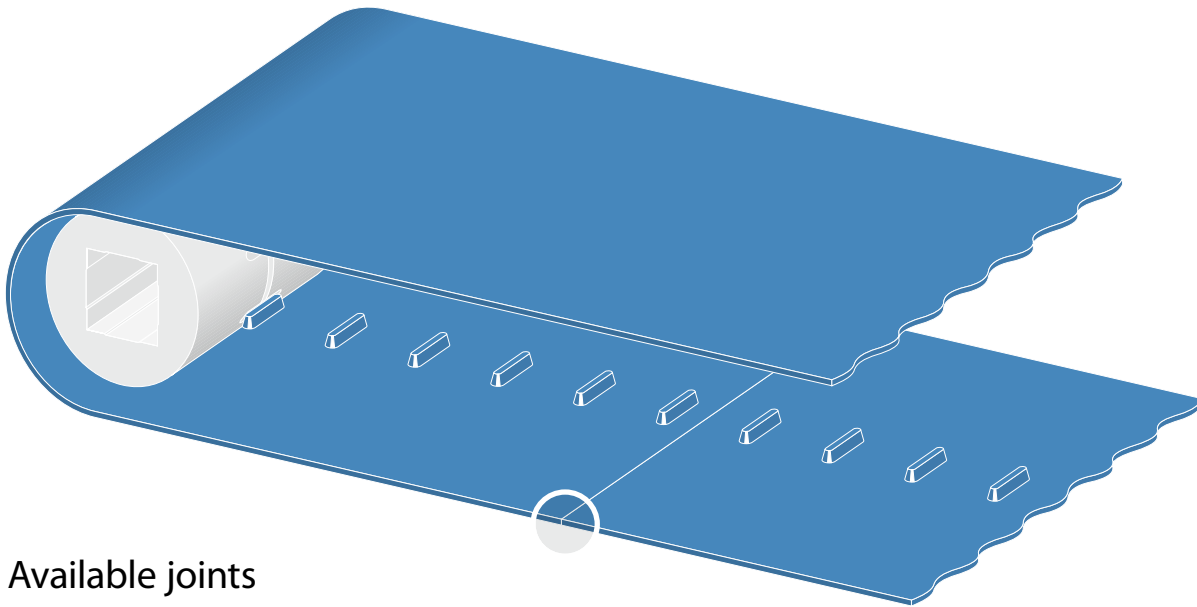


Belt types	Article number	Total thickness approx. [mm (in)]	Pitch [mm (in)]	Min pulley $\phi$ with counter bending [mm (in)]	Min pulley $\phi$ without counter bending [mm (in)]	Permissible operating temperature [°C]	Permissible operating temperature [°F]	Standard widths supplied [mm (in)]
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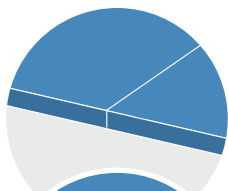
Fullseal positive drive								
PD1 U30 MT-NA-HACCP blue FDA	500478	3.05 (0.12)	25.908 (1.02)	83 (3.27)	51 (2)	-9/+71	+15/+160	1524 (60)
PD1 U30 MT-NA-HACCP beige FDA	500479	3.05 (0.12)	25.908 (1.02)	83 (3.27)	51 (2)	-9/+71	+15/+160	1524 (60)
PD2 U34 MT-NA-HACCP blue FDA	500480	3.43 (0.14)	50.038 (1.97)	98 (3.86)	80 (3.15)	-9/+71	+15/+160	1524 (60)
PD2 U34 MT-NA-HACCP beige FDA	500481	3.43 (0.14)	50.038 (1.97)	98 (3.86)	80 (3.15)	-9/+71	+15/+160	1524 (60)

- Blue (RAL 5015)
- Beige (RAL 1013)

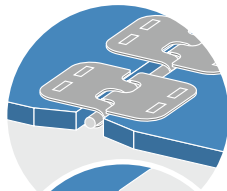
# FULLSEAL CENTER DRIVE



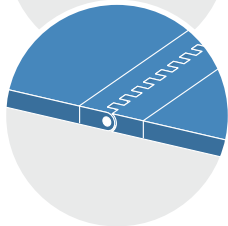
## Available joints



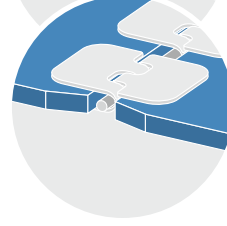
Butt splice (standard)



Clamp fastener

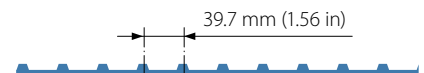


Hinge lace



Plastic rivet

## Technical data

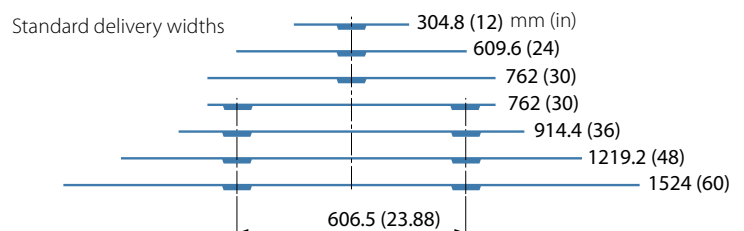


Belt types	Article number	Total thickness approx. [mm (in)]	Pitch [mm (in)]	Min pulley $\phi$ with counter bending [mm (in)]	Min pulley $\phi$ without counter bending [mm (in)]	Permissible operating temperature [°C]	Permissible operating temperature [°F]	Standard widths supplied [mm (in)]
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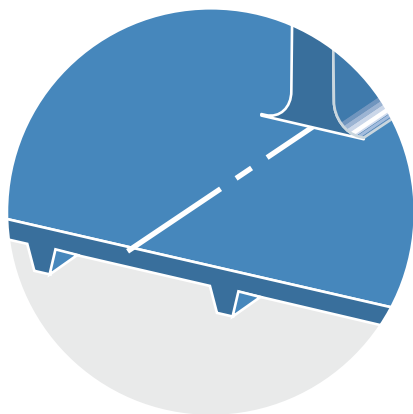
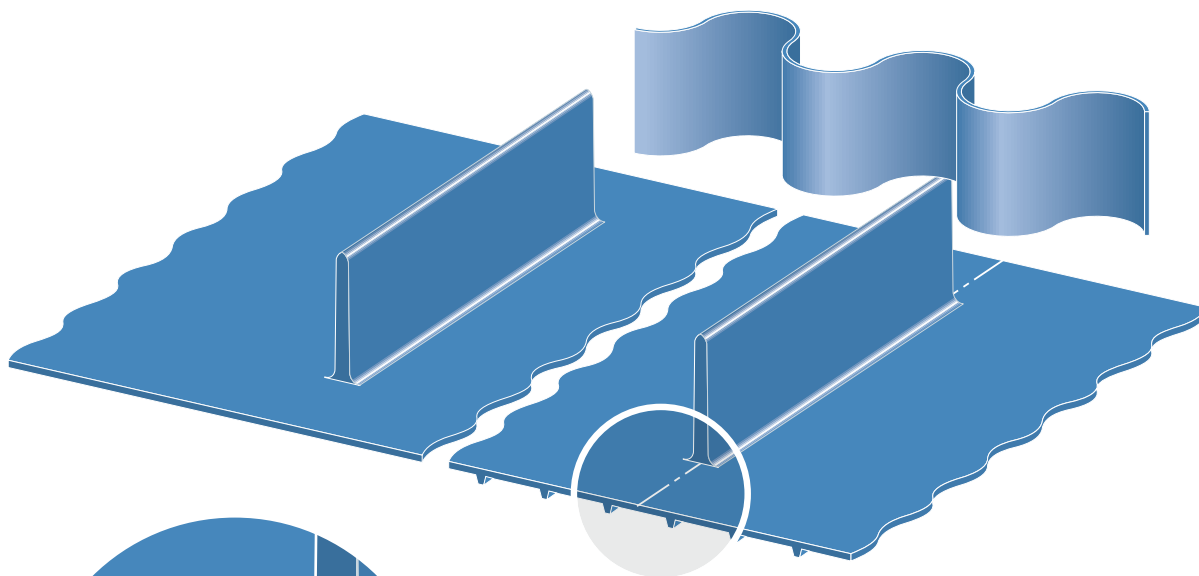
Fullseal center drive								
CD40 U34 MT-NA-HACCP beige FDA	500475	3.4 (0.13)	39.7 (1.56)	98 (3.88)	80 (3.15)	-9/+71	+15/+160	see below*
CD40 U34 MT-NA-HACCP blue FDA	500509	3.4 (0.13)	39.7 (1.56)	98 (3.88)	80 (3.15)	-9/+71	+15/+160	see below*

\* Customized widths possible. If customized widths are ordered, we will charge for the next wider standard width as shown below.

- Blue (RAL 5015)
- Beige (RAL 1013)



# PROFILES AND SIDE WALLS



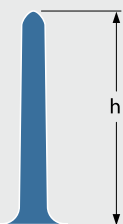
Welding location of profiles:  
Only between the drive lugs.

## PU-profiles (optional)

Height h [mm (in)]	Thickness [mm (in)]	Color	ø Pulley min. [mm (in)]
25 (1)	5 (0.2)	blue/beige	100 (3.97)
50 (2)	5 (0.2)	blue/beige	100 (3.97)
75 (3)	5 (0.2)	blue/beige	100 (3.97)
100 (4)	5 (0.2)	blue/beige	100 (3.97)
150 (6)	8 (0.3)	blue/beige	128 (5.04)



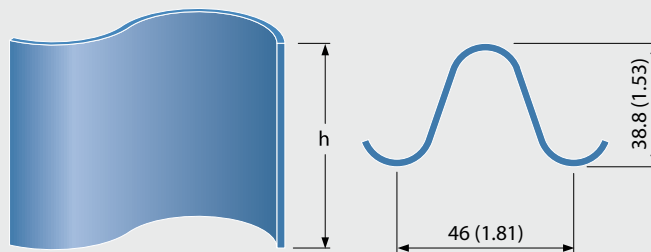
Any heights between 101 mm and 150 mm are cut down from 150 mm x 8 mm. ø Pulley min. is 128 (5.04).



Profiles can be welded to the belts with very narrow tolerances.  
Nonstandard heights are possible.

## PU-corrugated sidewalls (optional)

Height h [mm (in)]	Thickness [mm (in)]	Color	ø Pulley min. [mm (in)]
25 (1)	2 (0.08)	blue/beige	80 (3.15)
50 (2)	2 (0.08)	blue/beige	100 (3.94)
75 (3)	2 (0.08)	blue/beige	130 (5.12)
100 (4)	2 (0.08)	blue/beige	160 (6.30)



Sidewalls can be welded to the belts with very narrow tolerances.  
Nonstandard heights are possible.

# SPROCKETS AND TAIL ROLLERS

## Fullseal center drive

Outside dia. D <sub>0</sub> [mm (in)]	No. of teeth	Material	Color
101.6 (4)	8	UHMW*	white
152.4 (6)	12	UHMW	white
203.2 (8)	16	UHMW	white

\* UHMW-PE · Ultra-High-Molecular-Weight Polyethylene

## Fullseal positive drive Pitch 25.908 mm (1.02 in)

Outside dia. D <sub>0</sub> [mm (in)]	No. of teeth	Material	Bore [mm (in)]	Color
47.8 (1.88)	6	PU*	25.4 (1) RD	white
64.3 (2.53)	8	PU	25.4 (1) RD	white
80.8 (3.18)	10	PU	38.1 (1.5) SQ	white
97.2 (3.83)	12	PU	38.1 (1.5) SQ	white
163.3 (6.43)	20	PU	38.1 (1.5) SQ	white

\* Polyurethane

## Fullseal positive drive Pitch 50.038 mm (1.97 in)

Outside dia. D <sub>0</sub> [mm (in)]	No. of teeth	Material	Bore [mm (in)]	Color
93.7 (3.69)	6	PU*	38.1 (1.5) SQ	white
125.7 (4.95)	8	PU	38.1 (1.5) SQ	white
157.5 (6.20)	10	PU	38.1 (1.5) SQ	white
189.5 (7.46)	12	PU	38.1 (1.5) SQ	white
253.2 (9.97)	16	PU	38.1 (1.5) SQ	white

\* Polyurethane

**Type designation for Fullseal belts**

FLT	U 30	NP/	GL-NA-	HACCP	blue	FDA
PD1	U 30		MT-NA-	HACCP	beige	FDA

Labels for the designation fields:

- Fullseal type
- Belt material
- Belt thickness in 1/10 mm
- Surface finish underside
- Surface finish top face
- Belt property
- Belt property
- Color
- Belt property

- FLT** = Flat top
- CD** = Center drive
- PD1** = Positive drive · Pitch 25.908 mm (1.02 in)
- PD2** = Positive drive · Pitch 50.038 mm (1.97 in)
- U** = Polyurethane
- NP** = Inverted pyramid
- GL** = Smooth surface
- MT** = Matt surface
- NA** = Non-antistatic
- HACCP** = Supports the HACCP concept
- FDA** = Food safe in compliance with EC/FDA (see data sheet)

## Siegling – total belting solutions

Committed staff, quality oriented 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 2,300 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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MOVEMENT SYSTEMS