

# Product Range Conveyor and Processing Belts

**TRANSILON**



Power transmission and conveyor belts  
made of modern synthetics  
Worldwide leaders in technology, quality and service

**SIEGLING**  
BELTING

# Transilon for light materials handling ...

## Transilon product design

### ① Top face

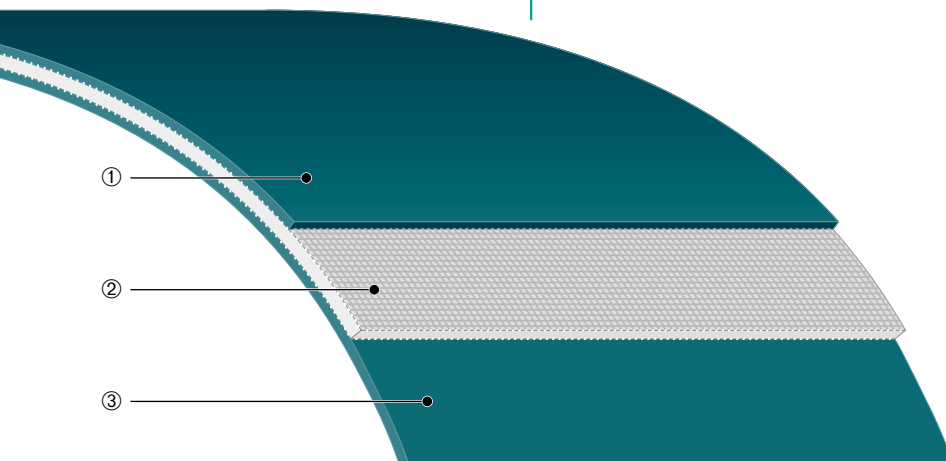
Various coating materials, thicknesses and textures determine grip, chemical, physiological and mechanical properties of the belt.

In the early 60s the idea of developing conveyor belting for light materials handling began to materialize. Under the trademark Transilon, Siegling created a product line of over 120 types and constructions to meet the needs of the market. Many types are the result of development activities carried out in cooperation with users and original equipment manufacturers.

From rugged “jacks-of-all-trades” to high-tech “specialists”: the Transilon product line offers a wide range of types for the most varied of conveying tasks in all industries, while at the same time also carrying out processing tasks. Special Siegling literature is available for many of the topics and industries mentioned in this brochure.

The conditions under which conveyor and power transmission belts are used are seldom identical. So when using Transilon, take advantage of the experience and competence of your Siegling consultant.

Newly developed product innovations are being added to the Transilon product range constantly to meet the requirements of the market.



### ② Tension member

The use of various special fabrics largely determines the suitability for specific applications. Belt tracking properties, load/elongation properties, electrostatic properties, flatness, knife-edge and curve suitability are directly dependant on the fabric construction.

### ③ Underside

The design of the underside determines the noise emission, wear, and suitability for sliding or rolling support of the belt.



**Example: For sports and leisure activities**  
Treadmill belts must be resistant to extreme punctual impacts but at the same time track perfectly straight. Transilon passes the fitness test!



**Example: In distribution and logistics centres**  
In complex distribution systems with automated sorters, Transilon ensures smooth operation of all conveying tasks.

## Properties

## Advantages

virtually stretchless

small take-up ranges

longitudinally flexible

small drum diameters possible

dimensionally stable

maintenance-free, re-tensioning not required

low-noise

humane working conditions

long product life

economical

light and thin

easy to handle

|                                                                 |    |
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## ... in all industries



### Example: In the fishing industry

On and offshore, Transilon is used for the conveying of packaged and unpackaged fish. Frequent cleaning with hot water and low operating temperatures are typical conditions for these applications.



### Example: In the brick and tile industry

Here, Transilon withstands extreme mechanical stress: high tensile forces arising from large surface loads along with heavy, abrasive stress.



### Example:

#### In the bakery and confectionery industry

In addition to suitability for use in the food industry, small and fragile goods require good flatness with very small drum diameters and greater resistance to oils and greases.

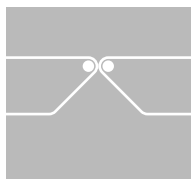
## ... for the most varied of conveying and processing tasks

### Horizontal conveying

Even a conveying task which seems quite simple can require a whole host of belt properties.

Siegling has the best belt type for various goods, conveying speeds, reversing systems, stop & go and accumulation conveying, and other operating conditions.

Some examples of the diverse features of Transilon include flame-retardance, exceptionally low-noise, resistance to pyrolysis, suitability for the conveying of unpackaged food, and non-antistatic and highly-conductive properties.



Left: Belts for telescopic conveyors – here being used to unload lorries – must be designed to run with counter bending and at the same time, to withstand high punctual loads.



Horizontal conveying with troughable belts. The tension member construction provides the flexibility in the desired direction.

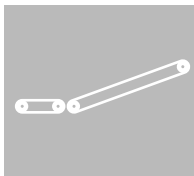
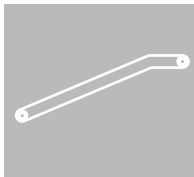
Below: Collecting belt in check-in area of an airport. The good flatness of the belt type here ensures that the goods can be discharged to the side smoothly, even on wide belts. Flame retardance is a “must” in modern airports.



### Inclined conveying

Goods can be conveyed at an incline even on smooth belt surfaces. The conveying angle is dependent on a variety of factors such as the type of goods being conveyed, the top face coating and external factors like dust, moisture, etc.

For large conveying angles and for the conveying of small pieces and bulk goods, Siegling offer textured belts or belts equipped with lateral profiles.



Inclined conveying in the tobacco industry. In this area, conveying angles of up to 22° are possible for belt types with smooth surfaces.

### Curved conveying

Curved belts from Siegling are suitable for use in conjunction with a diverse array of belt tracking systems and are in use on the conveyors of numerous major manufacturers. Thanks to largely-automated fabrication, Siegling guarantees strict adherence to the geometrical shapes and dimensions required when supplying finished belts.

Dividing curves into several segments makes for a favourable distribution of force vectors in the belt so even heavy goods can be carried without any problems.



Spiral curve in the confectionery industry.



Curved conveyor in a distribution centre.



### Processing belts

With Transilon, the gap is often bridged between the classical conveying function from “A” to “B” and an active function in the production process.

For example, in the textile industry Transilon processing belts stack thin layers of web, in large bakeries they form balls of dough, in the wood industry they compress chip mat in the pre-press, in dairies milk is coagulated on the belts to form cheese.

Here are just a few examples of process operations.

In large bakeries balls of dough are formed as a result of differing belt speeds.



Pre-press belt in the manufacture of particle boards. The particle mat is pre-pressed while being conveyed.



Cross-lapping of web layers in the nonwoven industry. High production speed and acceleration of masses while the web is guided directly between the belts places extremely high demands on the processing belts.

### Collection and distribution

When pushers and ploughs are used, the belt's laterally stiff design guarantees that it will lie flat and continue to run in a straight line reliably. The lateral loading and discharge of goods is achieved by using very smooth, wear-resistant surfaces.

Lateral sorters (e.g. carrier cells), on the other hand, require very thin, flexible belts whose surfaces have high coefficients of friction.

Their special tension member construction means that they have very low energy consumption.

Lateral sorter in a distribution centre. The high acceleration requires the belt surface to have an extremely high coefficient of friction.



Distribution belt in a distribution centre. The belt's fabric design has to withstand high lateral forces.

# Special processing

Numerous combinations of tension member design and coating construction makes are possible.

But certain conveying and processing tasks require more: mechanical, physical or chemical belt properties which can be provided only by special production processes, combinations of materials and/or finishing (see next pages).

Further information about all “special applications” is available on request.



## Profiles

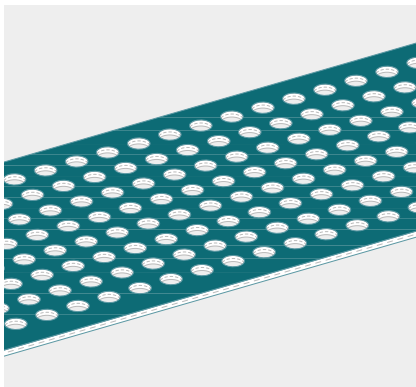
Conveyor belts with profiles are used for the inclined and declined conveying of bulk goods and small pieces.

Profiles are available in various shapes and sizes and can in some cases be supplied as roll material.



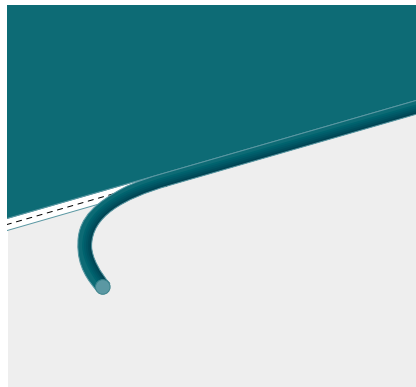
## Sidewalls

To contain goods on the sides when conveying bulk goods, sidewall profiles are used – often in conjunction with lateral profiles.



## Perforations

It is possible to maintain very narrow tolerances for practically any pattern of perforations in Transilon material. (Transilon with perforations can not be used for form-fit transmission of power.)



## Belt edge sealing ProSeal

The penetration of oil, grease and bacteria is prevented to a great extent with a belt edge sealing. The sealing extends the belt life and improves the belt's hygienic properties.

## Special features, properties and textures



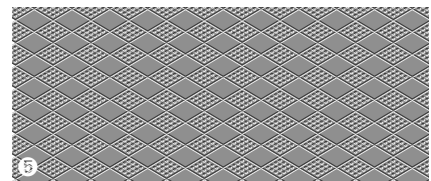
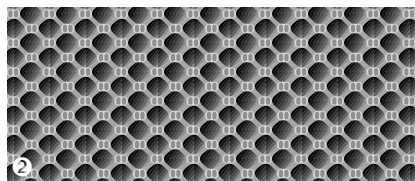
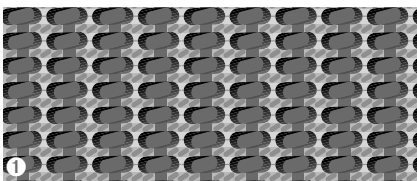
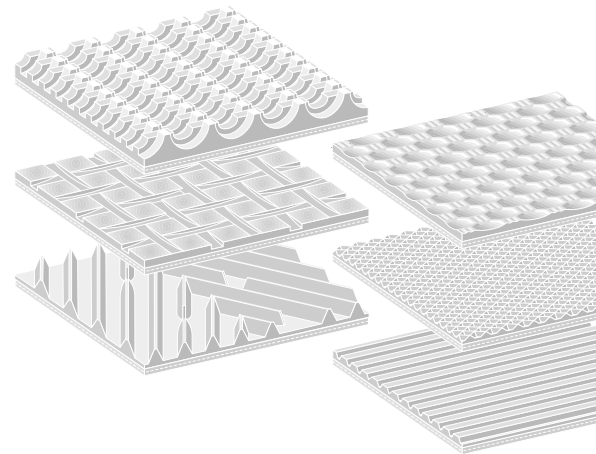
### Textures

Siegling has developed and optimized a wide range of surface textures and patterns for very different applications.

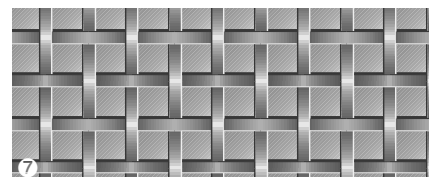
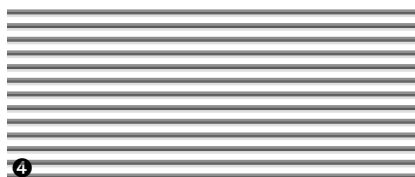
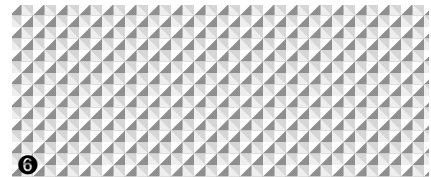
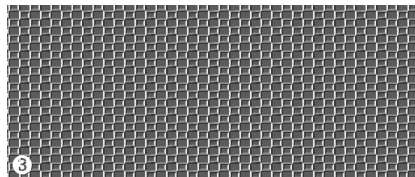
The appropriately optimized surface textures and patterns ensure, for example, ideal grip with demanding goods such as roller suitcases and good release properties with dough and are also used to emboss manufacturer-specific patterns on the underside of chocolate.

Transilon textured belts can run at incline angles of up to 30° without profiles.

For larger incline angles they can also be fitted with profiles and sidewalls (see previous pages).



- ① **AR** Rough top surface (M 1:1)
- ② **GSTR** Coarse textured surface (M 1:1)
- ③ **STR** Normal textured surface (M 1:1)
- ④ **LG** Longitudinal groove (M 1:1)
- ⑤ **RFF** Fine rhomboid texture (M 1:1)
- ⑥ **NP** Inverted pyramid pattern (M 1:1)
- ⑦ **SG** Lattice pattern (M 1:1)





### Electrical properties

In numerous conveying and processing functions, the electrical properties of the belt material are important for smooth operation. As a standard, Transilon belts are equipped with a conductive tension member which prevents electrostatic build-up of the belt and therefore the goods being conveyed.

Transilon NA belts (NA = non-antistatic) are not electrically conductive. They facilitate special engineering solutions for production conveyors on which goods are positioned, synchronized or otherwise regulated in their flow by electromagnetic means, e.g. on security screening and in the quality control.

With their highly-conductive surface coatings and/or tension members, Transilon highly-conductive belts (HC) prevent electrostatic build-up. For the safe conveying of electrical components and other electronically sensitive goods.



### FDA/USDA/HACCP

Thanks to numerous product innovations, Siegling contribute significantly to the hygienic conditions in the sensitive production areas of the food industry.

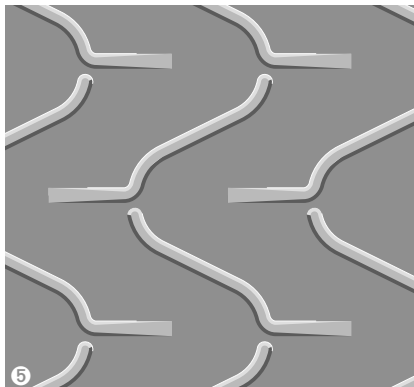
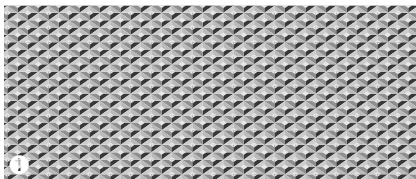
Transilon food belts conform to FDA and/or USDA regulations and assist you in realizing your concept for hygiene.

Information about special solutions for the hygienic flow of materials available on request.

### Further special products

In addition to these textures and features of Transilon conveyor and processing belts, Siegling offer numerous special developments for various applications including:

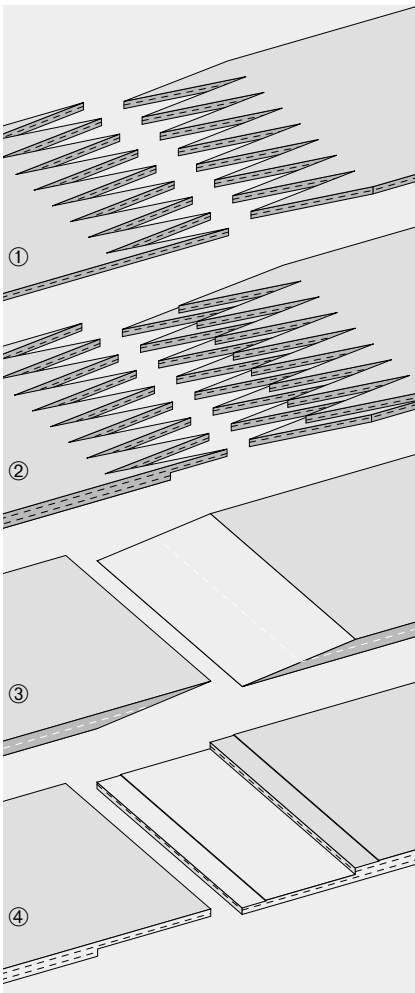
- belts resistant to UV
- belts with silicone coatings
- flame-retardant belts
- belts for hot goods
- silent belts
- wear-resistant belts
- knife-edge belts
- troughable belts



- ① **RF** Fine rhomboid texture (M 1:1)
- ② **VN** Staggered stud (M 1:2)
- ③ **KN** Cross-stud pattern (M 1:1)
- ④ **R80** Rhomboid pattern (M 1:2)
- ⑤ **CH** Check-in pattern (M 1:4)

# Types of splices

- ① Z-splice
- ② Stepped Z-splice
- ③ Wedge splice
- ④ Stepped-overlap splice



The splicing method appropriate for individual applications is dependent on the belt types used and the prevailing operating conditions.

In addition to splice reliability, flexibility of the splice and the effort required for fabrication are decisive criteria for the selection of the splicing method.

Detailed instructions for all splicing procedures are available on request.

## Hot-pressing

A hot-pressed splice provides the highest durability and flexibility. Following types are available:

### ◆ Z-splice

Meets the most rigorous of requirements for uniformity of thickness. Very flexible splice, required particularly for knife-edge belts. Standard splice for 1 and 2-ply belt types.

### ◆ Stepped Z-splice

Properties comparable to those of the Z-splice. Also suitable for rugged operating conditions (e.g. soiled drums). Possible for various 2 and 3-ply belt types.

### ◆ Wedge splice

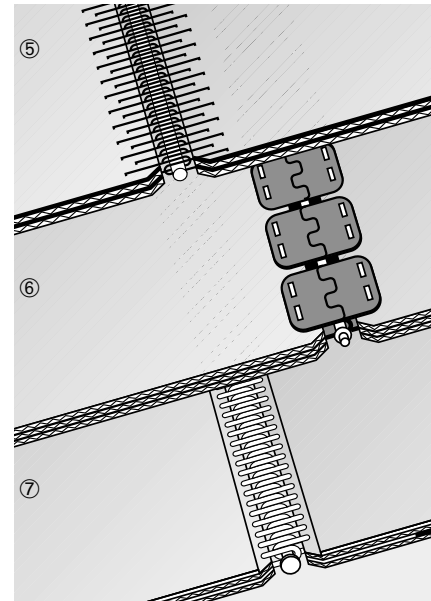
Splice type for solid-woven fabric and NOVO types.

### ◆ Stepped overlap splice

Especially for 2 and 3-ply belt types with duroplastic coatings.

## Cold-pressing

It is possible to cold-press wedge or stepped overlap splices in independent fitting repair jobs on site. Please note that such splices have limited strength and flexibility.



- ⑤ Wire hook fastener
- ⑥ Clamp fastener
- ⑦ Plastic fastener

## Mechanical fasteners

Mechanical fasteners make it possible to

- quickly fit and remove the belt without disassembling machine components,
- repair a belt at short notice by inserting a piece of belt material,
- make belts endless quickly and easily (please inquire about lacers).

Following fasteners are available:

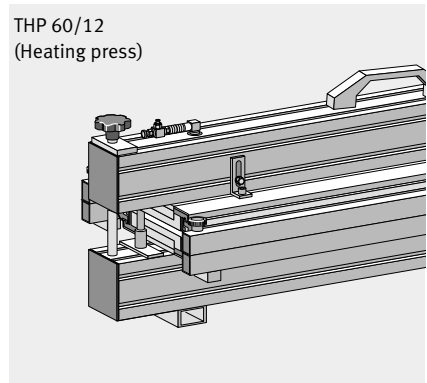
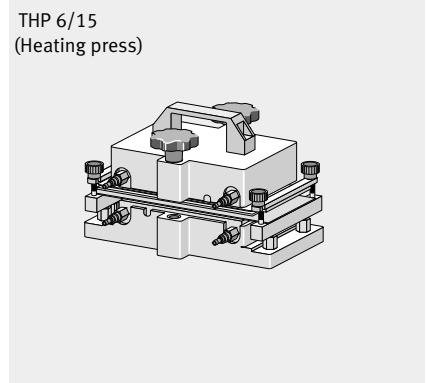
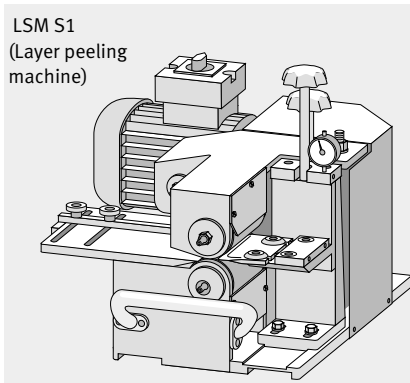
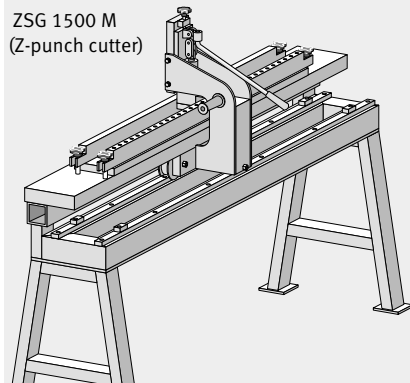
- wire hook fasteners (HS)
- clamp fasteners (CS)
- plastic fasteners (KS), also available optionally imbedded or heated into the belt coating.

# Splicing Equipment

For reliable hot-pressing (splicing) of Transilon conveyor and processing belts, a diverse, tried-and-tested range of equipment is available.

The equipment required for splicing depends mainly on the type of splice. Other important factors include the conditions under which the splice is to be fabricated (workshop or on-site fitting) and the width of the belts to be spliced.

The equipment depicted here is just a sample of our splicing equipment range. On request we will send you our complete equipment overview containing all important technical data for the equipment.



## Forms of delivery

- endless belts
- belts prepared for hot or cold-pressing on site
- roll material for independent belt fabrication
- belts with mechanical fasteners
- belts with sealed edges (ProSeal)
- belts with profiles welded on (longitudinal, lateral, diagonal, half-round)
- belts with sidewalls
- belts with perforations
- special designs with metal eyelets, impulse foils, special markings, etc.



# Product range

| Product range |                           | Technical data,<br>properties and<br>recommendations,<br>possible applications | Article number | Total thickness,<br>approx. [mm] | Weight, approx. [kg/m²] | SD value, approx.<br>[N/mm width] | d <sub>min</sub> approx. [mm]* | Permissible operating<br>temperature [°C] |  |
|---------------|---------------------------|--------------------------------------------------------------------------------|----------------|----------------------------------|-------------------------|-----------------------------------|--------------------------------|-------------------------------------------|--|
|               |                           |                                                                                |                |                                  |                         |                                   |                                |                                           |  |
| E 2/1         | A2/A2 NA-TT <sup>1)</sup> | blue                                                                           | 900360         | 0.8                              | 0.7                     | 2                                 | –                              | -10°/+60°                                 |  |
| E 2/1         | U0/U2                     | white                                                                          | 900176         | 0.6                              | 0.6                     | 2                                 | r 3-8                          | -30°/+100°                                |  |
| E 2/1         | U0/U2                     | amber                                                                          | 906455         | 0.7                              | 0.7                     | 2                                 | r 3-8                          | -30°/+90°                                 |  |
| E 2/2         | U0/0                      | transp.                                                                        | 900102         | 1.2                              | 1.1                     | 2                                 | r 3-8                          | -30°/+100°                                |  |
| E 3/1         | E0/E0 TT                  | transp.                                                                        | 900339         | 0.9                              | 0.6                     | 3                                 | 25 <sup>2)</sup>               | -30°/+100°                                |  |
| E 3/1         | E2/E2 MT/GL-C-TT          | transp.                                                                        | 900340         | 1.1                              | 1.3                     | 3                                 | 25                             | -30°/+100°                                |  |
| E 3/1         | U0/S3                     | white                                                                          | 900184         | 1.1                              | 1.2                     | 3                                 | r 3-8                          | -30°/+100°                                |  |
| E 3/1         | U0/U0                     | transp.                                                                        | 906430         | 0.9                              | 0.7                     | 3                                 | r 3-8                          | -30°/+100°                                |  |
| E 3/1         | U0/U2                     | white                                                                          | 900006         | 1.1                              | 1.1                     | 3                                 | r 3-8                          | -30°/+100°                                |  |
| E 3/1         | U0/U2 MT-C                | white                                                                          | 900008         | 0.7                              | 0.7                     | 3                                 | r 3-8                          | -30°/+100°                                |  |
| E 3/1         | U0/U2 MT-NA               | white                                                                          | 900201         | 0.8                              | 0.9                     | 3                                 | r 3-8                          | -30°/+100°                                |  |
| E 3/1         | U0/U2 RF                  | brown                                                                          | 900007         | 1.2                              | 1.1                     | 3                                 | r 3-8                          | -30°/+100°                                |  |
| E 3/1         | U0/U2 RFF-LF              | brown                                                                          | 906251         | 1.2                              | 1.2                     | 3                                 | r 3-8                          | -30°/+100°                                |  |
| E 3/2         | U0/U0                     | transp.                                                                        | 900009         | 1.2                              | 1.1                     | 3                                 | r 3-8                          | -30°/+100°                                |  |
| E 3/2         | U0/U2                     | white                                                                          | 900103         | 1.4                              | 1.4                     | 3                                 | r 3-8                          | -30°/+100°                                |  |
| E 3/2         | U0/U/C Fine               | white                                                                          | 999638         | 1.3                              | 1.2                     | 3                                 | r 3-8                          | -10°/+100°                                |  |
| E 4/1         | P2/P2 MT/MT-HC            | black                                                                          | 906189         | 0.6                              | 0.7                     | 4                                 | 60                             | -30°/+100°                                |  |
| E 4/1         | U0/V5H MT                 | green                                                                          | 900171         | 1.1                              | 1.2                     | 4                                 | 30                             | -10°/+70°                                 |  |
| E 4/1         | V4H/V4H MT/STR            | green                                                                          | 906226         | 1.4                              | 1.6                     | 4                                 | 30                             | -10°/+70°                                 |  |
| E 4/2         | S0/S0                     | transp.                                                                        | 900135         | 1.3                              | 1.2                     | 4                                 | 40                             | -40°/+180°                                |  |
| E 4/2         | S0/S3 FSTR                | white                                                                          | 900136         | 1.5                              | 1.7                     | 4                                 | 40                             | -40°/+180°                                |  |
| E 4/2         | U0/P2 MT-HC               | black                                                                          | 906212         | 0.9                              | 0.8                     | 4                                 | 60                             | -30°/+100°                                |  |
| E 4/2         | U0/U0                     | transp.                                                                        | 900206         | 1.0                              | 1.0                     | 4                                 | r 3-8                          | -30°/+100°                                |  |
| E 4/2         | U0/U2 MT                  | white                                                                          | 900207         | 1.3                              | 1.2                     | 4                                 | r 3-8                          | -30°/+100°                                |  |
| E 4/2         | U0/U2-LF                  | white                                                                          | 906373         | 1.3                              | 1.4                     | 4                                 | r 3-8                          | -30°/+100°                                |  |
| E 4/2         | U1/U2H-HC                 | black                                                                          | 906389         | 1.4                              | 1.55                    | 4                                 | 40                             | -10°/+100°                                |  |
| E 5/2         | 0/0                       | transp.                                                                        | 900104         | 1.4                              | 1.5                     | 5                                 | 25 <sup>2)</sup>               | -10°/+70°                                 |  |
| E 5/2         | 0/V5                      | green                                                                          | 900016         | 1.9                              | 2.1                     | 5                                 | 25                             | -10°/+70°                                 |  |
| E 5/2         | 0/V5H MT                  | black                                                                          | 906176         | 1.9                              | 2.15                    | 5                                 | 40                             | -10°/+70°                                 |  |
| E 6/1         | U0/UH                     | green                                                                          | 900019         | 0.7                              | 0.6                     | 6                                 | 25                             | -30°/+100°                                |  |
| E 6/2         | U0/U2-M                   | green                                                                          | 906191         | 1.9                              | 2.1                     | 6                                 | 50                             | -30°/+100°                                |  |
| E 8/2         | E0/E10 VN-TT              | transp.                                                                        | 900343         | 3.7                              | 3.0                     | 8                                 | 60                             | -30°/+100°                                |  |
| E 8/H         | U0/U2 MT-HACCP            | blue                                                                           | 906473         | 1.4                              | 1.4                     | 8                                 | r 3-8                          | -30°/+100°                                |  |
| E 8/H         | U0/U2 MT-HACCP            | white                                                                          | 906451         | 1.4                              | 1.4                     | 8                                 | r 3-8                          | -30°/+100°                                |  |
| E 8/2         | U0/U2                     | green                                                                          | 900320         | 1.4                              | 1.5                     | 8                                 | 25                             | -30°/+100°                                |  |
| E 8/2         | U0/U2-LF                  | green                                                                          | 906450         | 1.4                              | 1.6                     | 8                                 | 25                             | -30°/+100°                                |  |
| E 8/2         | U0/U4 GSTR                | green                                                                          | 900152         | 2.1                              | 2.1                     | 8                                 | 60                             | -30°/+100°                                |  |
| E 8/H         | U0/U6 NP                  | black                                                                          | 906383         | 1.8                              | 1.6                     | 8                                 | 30                             | -30°/+100°                                |  |
| E 8/2         | U0/U8                     | transp.                                                                        | 900024         | 2.0                              | 2.3                     | 8                                 | 60                             | -30°/+100°                                |  |
| E 8/2         | U0/U10 LG                 | green                                                                          | 999887         | 2.1                              | 2.2                     | 8                                 | 25                             | -30°/+100°                                |  |
| E 8/2         | U0/V/U20                  | green                                                                          | 900151         | 3.6                              | 4.2                     | 8                                 | 60                             | -10°/+70°                                 |  |
| E 8/2         | U0/V/U2H MT               | green                                                                          | 900170         | 1.5                              | 1.7                     | 8                                 | 60 <sup>2)</sup>               | -10°/+70°                                 |  |
| E 8/2         | U0/V/U2H MT-SE            | black                                                                          | 906401         | 1.6                              | 1.8                     | 8                                 | 60                             | -10°/+70°                                 |  |
| E 8/2         | U0/V2H MT                 | green                                                                          | 900208         | 1.5                              | 1.6                     | 8                                 | 40                             | -10°/+70°                                 |  |
| E 8/2         | U0/V5                     | green                                                                          | 900025         | 2.1                              | 2.4                     | 8                                 | 40                             | -10°/+70°                                 |  |
| E 8/2         | 0/V5H S/MT                | black                                                                          | 996141         | 2.1                              | 2.4                     | 8                                 | 50                             | -10°/+70°                                 |  |
| E 8/2         | U0/V5H MT                 | black                                                                          | 900026         | 2.1                              | 2.4                     | 8                                 | 50                             | -10°/+70°                                 |  |
| E 8/2         | U0/V5H MT-SE              | black                                                                          | 999967         | 2.2                              | 2.7                     | 8                                 | 60                             | -10°/+70°                                 |  |
| E 8/H         | U0/V5 MT-HACCP            | blue                                                                           | 906474         | 1.6                              | 1.7                     | 8                                 | 20                             | -10°/+70°                                 |  |
| E 8/H         | U0/V5 MT-HACCP            | white                                                                          | 906452         | 1.6                              | 1.7                     | 8                                 | 20                             | -10°/+70°                                 |  |
| E 8/2         | U0/V5 MT                  | white                                                                          | 900028         | 2.1                              | 2.4                     | 8                                 | 40                             | -10°/+70°                                 |  |
| E 8/2         | U0/V5 NP                  | white                                                                          | 900029         | 2.1                              | 2.4                     | 8                                 | 40                             | -10°/+70°                                 |  |
| E 8/2         | U0/V5 STR                 | green                                                                          | 900027         | 2.4                              | 2.65                    | 8                                 | 40                             | -10°/+70°                                 |  |
| E 8/H         | U0/V6 NP                  | black                                                                          | 906386         | 1.8                              | 1.6                     | 8                                 | 40                             | -10°/+70°                                 |  |
| E 8/2         | U0/V7 SG                  | black                                                                          | 906286         | 2.3                              | 2.5                     | 8                                 | 40                             | -10°/+70°                                 |  |
| E 8/H         | U0/V10 LG                 | black                                                                          | 906446         | 2.25                             | 2.1                     | 8                                 | 40                             | -10°/+70°                                 |  |
| E 8/2         | U0/V10 SG                 | green                                                                          | 900086         | 2.6                              | 2.8                     | 8                                 | 60                             | -10°/+70°                                 |  |
| E 8/2         | U0/V15 LG                 | green                                                                          | 900199         | 3.1                              | 3.6                     | 8                                 | 60                             | -10°/+70°                                 |  |
| E 8/2         | U0/V15 LG                 | black                                                                          | 900275         | 3.1                              | 3.3                     | 8                                 | 60                             | -10°/+70°                                 |  |
| E 8/2         | U0/V15 LG-SE              | black                                                                          | 906313         | 3.1                              | 3.5                     | 8                                 | 60                             | -10°/+70°                                 |  |
| E 8/2         | U0/V20 AR                 | green                                                                          | 900037         | 4.7                              | 4.0                     | 8                                 | 60 <sup>2)</sup>               | -10°/+70°                                 |  |
| E 8/2         | U0/V20 AR                 | black                                                                          | 900087         | 4.7                              | 4.0                     | 8                                 | 60 <sup>2)</sup>               | -10°/+70°                                 |  |
| E 8/2         | U0/V20 AR-SE              | black                                                                          | 999532         | 4.8                              | 4.15                    | 8                                 | 60                             | -10°/+70°                                 |  |
| E 8/2         | U0/V20 KN                 | green                                                                          | 900139         | 3.6                              | 3.0                     | 8                                 | 60                             | -10°/+70°                                 |  |
| E 8/2         | U0/V80 CH-SE              | black                                                                          | 906277         | 8.2                              | 4.4                     | 8                                 | 120 <sup>2)</sup>              | -10°/+70°                                 |  |
| E 8/2         | V1/V1                     | blue                                                                           | 996060         | 2.0                              | 2.4                     | 8                                 | 50                             | -10°/+70°                                 |  |
| E 8/2         | Y0/V4 GSTR                | black                                                                          | 996125         | 2.1                              | 2.2                     | 8                                 | 40                             | -10°/+70°                                 |  |
| E 8/2         | V5/V5 STR/GL              | green                                                                          | 900030         | 2.6                              | 3.15                    | 8                                 | 60 <sup>2)</sup>               | -10°/+70°                                 |  |

<sup>1)</sup> For special applications only (belt wrapper).  
Not to be used as a conveyor belt.

<sup>2)</sup> Lower values for special applications possible. Please inquire.

[illegible]

The adjacent table was correct at the time of going to press. Please visit **[www.siebling.com](http://www.siebling.com)** to check the latest data and application examples.

13

## Product range

| Product range                   |         |        | Technical data.<br>properties and<br>recommendations.<br>possible applications | Article number | Total thickness.<br>approx. [mm] | Weight. approx. [kg/m²] | SD value. approx.<br>[N/mm width] | d <sub>min</sub> approx. [mm]* | Permissible operating<br>temperature [°C] |  |
|---------------------------------|---------|--------|--------------------------------------------------------------------------------|----------------|----------------------------------|-------------------------|-----------------------------------|--------------------------------|-------------------------------------------|--|
|                                 |         |        |                                                                                |                |                                  |                         |                                   |                                |                                           |  |
|                                 |         |        |                                                                                |                |                                  |                         |                                   |                                |                                           |  |
| E 9/2 A0/A5 TT                  | transp. | 900345 | 2.9                                                                            | 2.5            | 9                                | 90                      | -10°/+60°                         |                                |                                           |  |
| E 9/2 A0/A15 VN-TT              | transp. | 900344 | 4.9                                                                            | 3.4            | 9                                | 90                      | -10°/+60°                         |                                |                                           |  |
| E 9/2 A5/A5 NP/GL-TT            | transp. | 900346 | 3.4                                                                            | 2.9            | 9                                | 90                      | -10°/+60°                         |                                |                                           |  |
| E 10/M U1/U3-NA                 | green   | 900064 | 3.1                                                                            | 3.5            | 10                               | 60                      | -10°/+80°                         |                                |                                           |  |
| E 10/M U1/U3 GSTR-NA            | green   | 900065 | 3.5                                                                            | 3.4            | 10                               | 60                      | -10°/+80°                         |                                |                                           |  |
| E 10/M V1/V10                   | green   | 900066 | 2.8                                                                            | 3.3            | 10                               | 60                      | -10°/+70°                         |                                |                                           |  |
| E 10/M V1/V10 MT                | white   | 900092 | 2.8                                                                            | 3.3            | 10                               | 60                      | -10°/+70°                         |                                |                                           |  |
| E 10/M V1/V20 AR                | black   | 900069 | 5.0                                                                            | 4.6            | 10                               | 60                      | -10°/+70°                         |                                |                                           |  |
| E 10/1 U1/Z30-Q                 | transp. | 906384 | 4.3                                                                            | 1.7            | 10                               | 40                      | -30°/+100°                        |                                |                                           |  |
| E 12/2 A0/A3 MT-TT              | green   | 900347 | 1.8                                                                            | 1.8            | 12                               | 60                      | -10°/+80°                         |                                |                                           |  |
| E 12/2 E0/E3 MT-TT              | transp. | 900348 | 1.7                                                                            | 1.8            | 12                               | 50                      | -30°/+100°                        |                                |                                           |  |
| E 12/2 E3/E3 STR/MT-TT          | transp. | 900349 | 2.2                                                                            | 2.4            | 12                               | 50                      | -30°/+100°                        |                                |                                           |  |
| E 12/2 U0/G10 GSTR-C            | black   | 906448 | 2.6                                                                            | 2.5            | 12                               | 60 <sup>2)</sup>        | -20°/+100°                        |                                |                                           |  |
| E 12/2 U0/G20 AR                | black   | 906447 | 5.3                                                                            | 3.5            | 12                               | 60                      | -20°/+100°                        |                                |                                           |  |
| E 12/2 U0/U0                    | transp. | 900040 | 1.4                                                                            | 1.3            | 12                               | 60                      | -30°/+100°                        |                                |                                           |  |
| E 12/2 U0/UH                    | green   | 900043 | 1.4                                                                            | 1.45           | 12                               | 60 <sup>2)</sup>        | -30°/+100°                        |                                |                                           |  |
| E 12/2 U0/U4 MT                 | black   | 906358 | 2.1                                                                            | 2.3            | 12                               | 60                      | -30°/+100°                        |                                |                                           |  |
| E 12/2 U0/U20 GSTR              | green   | 900168 | 3.8                                                                            | 3.7            | 12                               | 90                      | -10°/+80°                         |                                |                                           |  |
| E 12/2 U0/V/U0                  | transp. | 900164 | 1.5                                                                            | 1.5            | 12                               | 60                      | -10°/+70°                         |                                |                                           |  |
| E 12/2 U0/V/U0-SE               | black   | 999903 | 2.0                                                                            | 2.3            | 12                               | 90                      | -10°/+70°                         |                                |                                           |  |
| E 12/2 U0/V/U2H MT              | green   | 900173 | 2.1                                                                            | 2.4            | 12                               | 100 <sup>2)</sup>       | -10°/+70°                         |                                |                                           |  |
| E 12/2 U0/V/U4 GSTR-C           | black   | 999979 | 2.3                                                                            | 2.2            | 12                               | 60                      | -10°/+70°                         |                                |                                           |  |
| E 12/2 U0/V3-C                  | green   | 900044 | 2.3                                                                            | 2.5            | 12                               | 60                      | -10°/+70°                         |                                |                                           |  |
| E 12/2 U0/V3 MT-C               | black   | 900264 | 2.3                                                                            | 2.65           | 12                               | 60                      | -10°/+70°                         |                                |                                           |  |
| E 12/2 U0/V5 STR-C-SE           | black   | 999856 | 2.5                                                                            | 3              | 12                               | 60                      | -10°/+70°                         |                                |                                           |  |
| E 12/2 U0/V7                    | green   | 900045 | 2.7                                                                            | 3.1            | 12                               | 60                      | -10°/+70°                         |                                |                                           |  |
| E 12/2 U0/V10 STR-SE            | black   | 900323 | 3.0                                                                            | 3.6            | 12                               | 90                      | -10°/+70°                         |                                |                                           |  |
| E 12/2 U0/V20                   | green   | 900262 | 3.3                                                                            | 4.1            | 12                               | 60                      | -10°/+70°                         |                                |                                           |  |
| E 12/2 U0/V20 MT-NA             | white   | 900050 | 3.7                                                                            | 4.3            | 12                               | 60                      | -10°/+70°                         |                                |                                           |  |
| E 12/2 V5/V10 STR/GL            | green   | 900053 | 3.2                                                                            | 3.7            | 12                               | 60                      | -10°/+70°                         |                                |                                           |  |
| E 15/M V1/V10H MT               | green   | 900324 | 5.0                                                                            | 5.4            | 15                               | 140                     | -10°/+70°                         |                                |                                           |  |
| E 18/3 E0/E3 MT-TT              | transp. | 900350 | 2.6                                                                            | 2.8            | 18                               | 60                      | -30°/+100°                        |                                |                                           |  |
| E 18/H U0/U2 MT                 | white   | 906420 | 1.6                                                                            | 1.6            | 18                               | 20                      | -30°/+100°                        |                                |                                           |  |
| E 18/3 U0/V/U2H MT              | green   | 900174 | 2.8                                                                            | 3.1            | 18                               | 200 <sup>2)</sup>       | -10°/+70°                         |                                |                                           |  |
| E 18/3 U0/V20                   | green   | 900088 | 4.8                                                                            | 5.65           | 18                               | 120                     | -10°/+70°                         |                                |                                           |  |
| E 20/M U1/U3-NA                 | green   | 900074 | 5.4                                                                            | 5.1            | 20                               | 160                     | -10°/+80°                         |                                |                                           |  |
| E 20/M U1/U3 GSTR-NA            | green   | 900075 | 5.7                                                                            | 5.5            | 20                               | 160                     | -10°/+80°                         |                                |                                           |  |
| E 30/3 U0/V20                   | green   | 906352 | 5.8                                                                            | 7.2            | 30                               | 250 <sup>2)</sup>       | -10°/+70°                         |                                |                                           |  |
| E 30/3 U0/V25 GSTR              | green   | 906387 | 6.2                                                                            | 7.4            | 30                               | 250 <sup>2)</sup>       | -10°/+70°                         |                                |                                           |  |
| EP U5/U5 GL/GL-NA <sup>1)</sup> | green   | 900205 | 7.3                                                                            | 6.5            | 0                                | 120                     | -10°/+80°                         |                                |                                           |  |
| NOVO 25-NA                      | white   | 996160 | 2.5                                                                            | 1.5            | 10                               | 40                      | -10°/+120°                        |                                |                                           |  |
| NOVO 25-HC                      | black   | 900195 | 2.5                                                                            | 1.5            | 10                               | 40                      | -10°/+120°                        |                                |                                           |  |
| NOVO 40-HC                      | black   | 900221 | 4.0                                                                            | 2.7            | 10                               | 70                      | -10°/+120°                        |                                |                                           |  |
| NOVO 60-HC                      | black   | 900286 | 5.5                                                                            | 3.7            | 10                               | 120 <sup>2)</sup>       | -10°/+120°                        |                                |                                           |  |
| P 3/1-NA                        | black   | 900263 | 0.33                                                                           | 0.39           | 3                                | 30                      | -40°/+80°                         |                                |                                           |  |
| P 6/2                           | black   | 900080 | 0.7                                                                            | 0.8            | 6                                | 50                      | -40°/+80°                         |                                |                                           |  |
| TT 5/1-6431-HC                  | black   | 906431 | 1.2                                                                            | 1.2            | 5                                | 30                      | -20°/+80°                         |                                |                                           |  |
| TT 10/1 6378-HC                 | black   | 906378 | 1.8                                                                            | 1.9            | 10                               | 90                      | -20°/+80°                         |                                |                                           |  |
| TT 14/2-6432-HC                 | black   | 906432 | 2.3                                                                            | 2.3            | 14                               | 120                     | -20°/+80°                         |                                |                                           |  |
|                                 |         |        |                                                                                |                |                                  |                         |                                   |                                |                                           |  |
|                                 |         |        |                                                                                |                |                                  |                         |                                   |                                |                                           |  |
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|                                 |         |        |                                                                                |                |                                  |                         |                                   |                                |                                           |  |
|                                 |         |        |                                                                                |                |                                  |                         |                                   |                                |                                           |  |
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|                                 |         |        |                                                                                |                |                                  |                         |                                   |                                |                                           |  |
|                                 |         |        |                                                                                |                |                                  |                         |                                   |                                |                                           |  |
|                                 |         |        |                                                                                |                |                                  |                         |                                   |                                |                                           |  |
|                                 |         |        |                                                                                |                |                                  |                         |                                   |                                |                                           |  |
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<sup>1)</sup> For special applications only (belt wrapper).  
Not to be used as a conveyor belt.

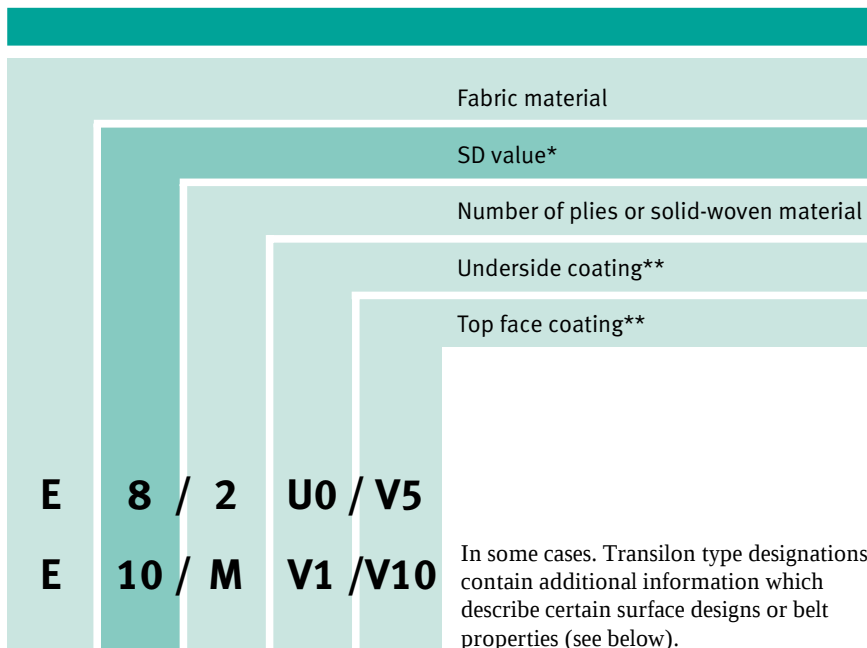
<sup>2)</sup> Lower values for special applications possible. Please inquire.

For every type listed a data sheet with all relevant technical information is available on request.

Belts with profiles or sidewalls may require larger drum diameters. Please see brochure ref. no. 600. Profiles and Sidewalls.

Newly developed product innovations are being added to the Transilon product range constantly to meet the requirements of the market.

The adjacent table was correct at the time of going to press. Please visit **[www.siebling.com](http://www.siebling.com)** to check the latest data and application examples.



## Code and abbreviations

### Tension member construction

|                |    |
|----------------|----|
| polyester      | E  |
| aramide        | A  |
| polyamide      | P  |
| special fabric | EC |

### Design

|                        |       |
|------------------------|-------|
| number of fabric plies | 1.2.3 |
| HiTech-fabric          | H     |
| solid-woven material   | M     |

### Coatings

|                  |                      |
|------------------|----------------------|
| PVC              | V                    |
| hard PVC         | VH                   |
| urethane         | U                    |
| hard urethane    | UH                   |
| polyolefin       | A                    |
| polyester        | E                    |
| rubber           | G                    |
| silicone         | S                    |
| polyamide        | P                    |
| special coatings | F. Z. L.<br>NOVO. C  |
| uncoated         | 0                    |
| impregnated      | U0. E0. A0<br>S0. Y0 |

### Top face textures

|      |                          |
|------|--------------------------|
| AR   | rough-top surface        |
| FG   | herringbone pattern      |
| FSTR | fine textured surface    |
| GL   | smooth surface           |
| GSTR | coarse textured surface  |
| KN   | cross-stud pattern       |
| LG   | longitudinal groove      |
| MT   | matt surface             |
| NP   | inverted pyramid texture |
| R    | rhomboid texture         |
| RF   | rhomboid fine texture    |
| RFF  | rhomboid fine texture    |
| SG   | lattice texture          |
| STR  | normal textured surface  |
| VN   | staggered stud           |

### Belt properties

|    |                                                      |
|----|------------------------------------------------------|
| C  | laterally flexible,<br>suitable for curved conveyors |
| HC | highly-conductive                                    |
| HW | hot water                                            |
| LF | low friction                                         |
| M  | particularly stiff laterally                         |
| NA | non-antistatic                                       |
| S  | low noise (silent)                                   |
| SE | flame-retardant                                      |
| Q  | laterally flexible tension member                    |

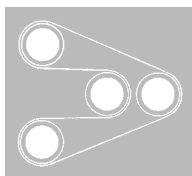
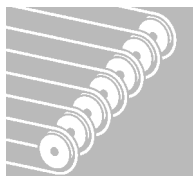
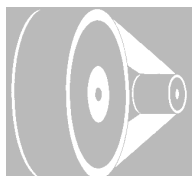
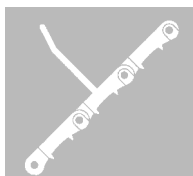
\* The SD value indicates the dynamic load/elongation properties in long-term use at 1% elongation. measured in N/mm belt width.

\*\* This figure represents the coating thickness in 1/10 mm. e.g. V5 = 0.5 mm PVC.

**Product brochures (selected)\***

| Ref.-No. | Subject                                                              |
|----------|----------------------------------------------------------------------|
| 217      | Image brochure                                                       |
| 221      | Marble industry                                                      |
| 228      | Tobacco industry                                                     |
| 242      | Airport                                                              |
| 262      | Timber and particle board industry                                   |
| 269      | Food industry                                                        |
| 295      | Nonwoven and clothing industry                                       |
| 213/3    | Calculation methods                                                  |
| 213/4    | Recommendations for conveyor design                                  |
| 317      | Transilon Technical Information 1<br>Storage · Finishing · Fitting   |
| 318      | Transilon Technical Information 2<br>Special Features and Properties |
| 229      | Round belts                                                          |
| 231      | Belts for live roller conveying                                      |
| 232      | Belts for drag band conveyor                                         |
| 267      | Wear-resistant belts                                                 |
| 223      | ProLink plastic modular belting<br>Product range                     |
| 245      | ProPosition<br>High-efficiency timing belts<br>Product range         |

\*Product literature  
for other product groups  
(e.g. high-efficiency flat belts)  
available on request



#### Further Siegling products:

- ProLink plastic modular belting
- ProPosition high-efficiency timing belts
- Transilon Round belts
- Extremultus High-efficiency flat belts
- Extremultus High-efficiency tangential belts, spindle tapes
- Extremultus Folder and carrier belts, layboy tapes



Committed staff, quality-orientated organisation and production processes ensure the constantly high standards of our products and services. The Siegling Quality Management System is certified in accordance with DIN EN 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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① ② An important step in quality assurance:  
testing of material in the Siegling lab.



③ ④ State-of-the-art technology in all production facilities

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#### Worldwide Siegling Service

The worldwide Siegling Group has more than 1700 employees. Siegling production facilities are located in 8 countries. Siegling have companies and agencies offering ample stock and their own workshops in more than 50 countries. Siegling service centres provide qualified assistance at more than 300 locations throughout the world.

A member of the Forbo Group.

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