siegling transtex
conveyor belts

PRODUCT RANGE

Siegling – total belting solutions

Forbo
MOVEMENT SYSTEMS

Unloading belt for 40 tons of hard coal. It took Siegling Transtex to make this compact conveyor design possible.

Large gradient angles can be achieved even for heavy-duty loads and when products conveyed are wet.

SIEGLING TRANSTEX: HEAVY-DUTY SPECIALISTS

Conveying heavy-duty products presents huge challenges to the conveyor belts used. The Siegling Transtex range offers top performance in the most diverse of applications.

Siegling Transtex beats past capabilities
Global logistics service providers have been using Siegling Transtex successfully for years when typical conveyor belts for light-materials handling reached their limits. They have also proved how good they are in conveying raw materials, very heavy unit goods and sharp components, as well as coping with tough production conditions.

Siegling Transtex sometimes surpasses even rubber and steel belts.
In wind and extreme weather conditions, high temperatures and unusual mechanical stress, steel and rubber conveyor belts were the first choice for a long time.

Siegling Transtex is the ideal alternative for many applications – with all the benefits of fabric-based conveyor belts:

- easy to make endless
- low energy consumption
- simple conveyor design
- low maintenance and repair costs

Siegling Transtex makes very compact conveyors possible. And in terms of technology, new perspectives are opened up as a result, some of which include truck unloading belts, packaging machinery for coils, punch presses and outdoor machinery, e.g. in agriculture and wood processing.

The properties	The advantages
extreme flexibility compared with steel and rubber belts	low power consumption, relatively small reversing drum diameters, compact conveyor designs
extremely robust, abrasion- and puncture resistant	long service lives, even when subjected to heavy usage
various different fabric designs	laterally stiff and troughable designs with strong edges
good damping features	kind to bearings, little vibration during operation

TYPICAL SIEGLING TRANSTEX

Especially hard-wearing belts operate reliably even if the humidity and temperature fluctuate.

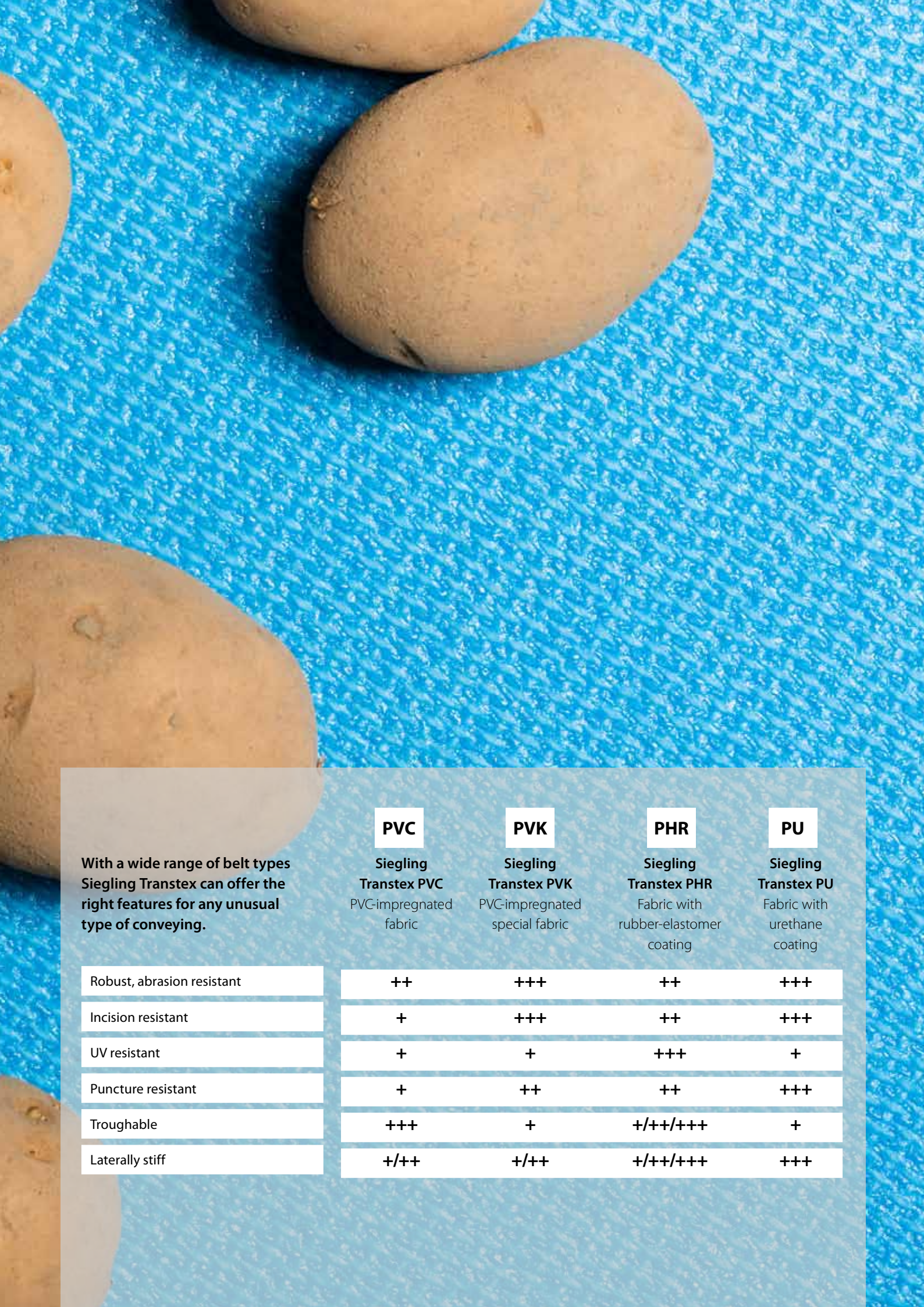
After rolling, 160 °C hot rubber sheets are immediately transferred to highly temperature-resistant Siegling Transtex belts.

Particularly abrasion- and incision-resistant Siegling Transtex belts guarantee reliable conveying in assembly feed and sheet metal manufacture.

For heavy-usage conveyors
Siegling Transtex belts are also used in logistics
and distribution centres.

When conveying refuse, robust and
chemically resistant Siegling Transtex types
reliably handle a whole range of different
materials, shapes and consistencies.

Long-term outdoor use with water- and
UV-resistant Siegling Transtex types.



With a wide range of belt types Siegling Transtex can offer the right features for any unusual type of conveying.

	PVC **Siegling Transtex PVC** PVC-impregnated fabric	**PVK** **Siegling Transtex PVK** PVC-impregnated special fabric	**PHR** **Siegling Transtex PHR** Fabric with rubber-elastomer coating	**PU** **Siegling Transtex PU** Fabric with urethane coating
Robust, abrasion resistant	++	+++	++	+++
Incision resistant	+	+++	++	+++
UV resistant	+	+	+++	+
Puncture resistant	+	++	++	+++
Troughable	+++	+	+/++/+++	+
Laterally stiff	+/++	+/++	+/++/+++	+++

TECHNICAL DATA

Supplied as

– open roll material
– prepared for making endless
– made endless as specified

Preparation tools and heating presses for Siegling Transilon can be used for all splicing procedures.

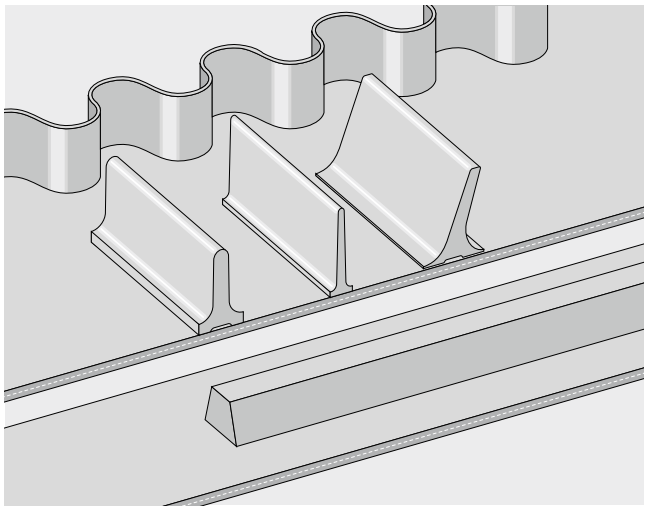
Profiles

Longitudinal (guidance) and lateral profiles and sidewalls are available for Siegling Transtex types in various sizes and shapes.

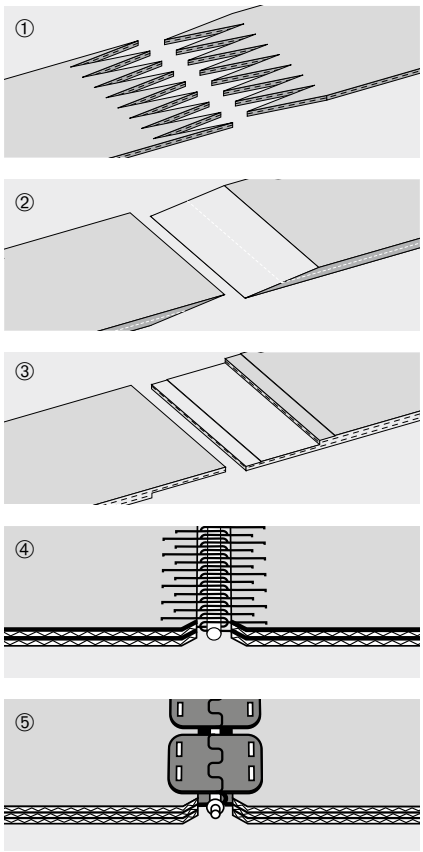
Material combinations

Profiles		Belt types
PVC and PU	on	PVC/PVK/PU (welded)
PVC and PU	on	PHR (bonded)
Rubber, PU, PVC	on	PHR (bonded)

Sidewalls		Belt types
PVC	on	PVC/PVK/PU with C top coating (welded)



Splice types



① Z-splice
② wedge splice
③ stepped overlap splice
④ wire hook fasteners
⑤ clip fasteners

Product range

		Article number	Total thickness approx. [mm]	Weight approx. [kg/m²]	Effective pull at 1% elongation ($k_{1\%}$ relaxed) [N/mm width]*	d_{min} approx. [mm]**	Permissible operating temperature [°C]	Hardness of top face coating [Shore A]	Flame retardancy FR = ASTM D-378	Antistatic	Max. width supplied [mm]	Available in AP = Asia Pacific, EU = Europe
PVC	PVC120 FxB-NA black FR	908011	2.8	2.4	7.5	51	-18/+82	80	●		1829	AP
	PVC120 HMxB-NA black FR	908037	3.4	4.2	9.0	51	-18/+82	80	●		1829	AP
	PVC120 LT CTxB-NA black	908750	6.1	4.2	9.5	38	-29/+82	65			1829	EU
	PVC120 OFR CxF-NA white FDA	908033	3.4	4.2	8.5	51	-18/+82	80			1829	AP
	PVC120 OFR-80A CTxF-NA white FDA	908313	5.6	4.2	8.5	38	-18/+82	80			1829	AP
	PVC120 P CTxB-NA black	908014	6.1	4.2	8.5	38	-18/+82				1829	AP
	PVC120 P CxB-NA black	908046	3.4	4.2	8.5	51	-18/+82	80			1829	AP
	PVC120 RTxB-NA black FR	908004	6.4	4.9	8.5	51	-18/+82	80	●		1829	AP
	PVC150 HI RTxB-NA GREEN	908019	7.4	5.9	8.0	64	-18/+82	39			1829	AP
	PVC150 OFR CxF-NA white FDA	908794	4.1	4.9	8.0	51	-18/+82	80			1829	AP
	PVC150 P CTxB-NA black	908770	6.6	5.1	8.5	64	-18/+82	65			1829	EU/AP
	PVC150 P CxB-NA black	908910	4.1	4.9	8.0	51	-18/+82	80			1829	EU/AP
	PVC150 RTxB-NA black FR	908018	7.4	5.9	8.0	64	-18/+82	55	●		1829	AP
	PVC200 OFR-OSHA CxC white FDA	908308	6.1	7.8	11.5	89	-18/+82	80		●	1829	EU/AP
	PVC200 P CxB-NA black	908028	5.1	6.3	11.0	89	-18/+82	80			1829	AP
	PVC250 ORG CxC black FR	908710	6.6	8.5	14.0	126	-18/+82	80	●	●	1829	AP
	PVC250 P CxB-NA black	908311	5.8	6.8	12.0	126	-18/+82	80			1829	AP
	PVC350 O/M CxB black FR	908312	6.4	8.3	18.0	164	-18/+82	80	●	●	1829	AP
	PVC350 ORG CxC black FR	908736	7.7	9.8	16.0	164	-18/+82	80	●	●	1829	EU/AP
	PVC450 ORG CxC black FR	908310	9.1	11.7	24.0	254 [1)]	-18/+82	80	●	●	1829	AP
	PF200 LT AR OFR CxF-NA blue FDA	908922	5.1	6.3	12.0	126	-40/+82	70			1829	EU
PVK	PVK100 FSxFS-NA black FR	908100	2.8	2.4	10.5	38	-18/+82		●		1829	EU
	PVK125 CxFS-NA black FR	908104	3.9	4.4	14.0	64	-18/+82	80	●		1829	EU/AP
	PVK125 FSxFS-NA (CN) black FR	908142	3.7	3.4	10.0	38	-18/+82		●		2000	AP
	PVK125 FSxFS-NA black FR	908103	3.7	3.4	10.0	38	-18/+82		●		1829	EU/AP
	PVK125 LRxFS-NA black FR	908919	4.8	5.0	12.0	64	-18/+82	45	●		2000	AP
	PVK125 LT LRxFS-NA FR	908141	4.8	5.0	12.0	0	-40/+82	45	●		2000	AP
	PVK125 MRTxFS-NA black FR	908105	4.8	4.9	14.0	38	-18/+82	65	●		1829	EU/AP
	PVK125 RTxFS-NA black FR	908106	7.6	6.3	11.0	51	-18/+82	55	●		1829	EU/AP
	PVK125LN FSxFS-NA black FR	908140	3.7	3.4	10.0	64	-18/+82		●		1524	AP
	PVK150 CxFS-NA black FR	908109	5.1	5.9	13.0	89	-18/+82	80	●		1829	EU/AP
	PVK150 FSxFS-NA black FR	908125	4.6	4.4	10.0	38	-18/+82		●		1829	EU/AP
	PVK150MF BxB-NA black FR	908139	3.5	3.3	12.0	89	-18/+160	80	●		1829	EU/AP
	PVK160N FSxFS black FR	908110	5.6	5.4	6.0	38	-18/+82		●	●	1829	EU
	PVK200 FSxFS-NA black FR	908111	5.1	5.4	15.0	51	-18/+82		●		1829	EU
PHR	PHR2-90MF GRADE II RTxBB black	908214	7.0	6.4	4.5	89	-29/+107			●	1829	EU
	PHR2-90MF LIxBB-NA black FR	908201	3.6	4.3	8.0	89	-29/+107		●		1829	EU
	PHR2-90SMF GRADE II BBxBB-NA black	908246	2.3	2.2	4.5	64	-29/+107				1829	EU
	PHR2-160 BBxBB-NA brown FR	908203	2.3	2.6	11.0	102	-29/+107		●		1829	EU
	PHR2-160 CARBOx RTxBB-NA blue	908823	6.5	5.4	11.0	102	-29/+107				1829	EU/AP
	PHR2-160 CARBOx RTxBB-NA blue	908812	7.5	6.7		164	-29/+107				1829	EU/AP
	PHR2-160 CARBOx RTxBB-NA brown	908223	6.5	5.4	11.0	102	-29/+107				1829	EU/AP
	PHR2-160 GII 5.8MM RTxBB-NA black	908237	5.8	4.6	11.0	126	-29/+93				1829	EU/AP
	PHR2-160 PURE GUM RTxBB-NA TAN	908222	6.5	5.2	11.0	89	-29/+107				1829	EU
	PHR2-160 RTxBB-NA black FR	908206	6.9	6.4	10.0	89	-29/+107		●		1829	EU/AP
	PHR2-220 GRADE II RT4xLI1-NA black	908258	10.2	9.3		102	-23/+93				1829	AP
	PHR3-135MF BBxBB-NA black FR	908208	3.9	4.6	8.0	126	-29/+107	60	●		1829	EU
	PHR3-200TW BBxBB-NA black FR	908209	3.8	4.4	12.0	80	-23/+107		●		1829	EU/AP
	PHR3-200TW LIxBB-NA black FR	908216	3.6	4.3	20.0	164	-29/+107		●		1829	EU
	PHR3-240 CARBOx RTxBB-NA brown	908245	7.5	6.7	15.0	164	-29/+107				1829	EU/AP
	PHR3-240 GRADE II RTxBB-NA black	908242	7.5	6.6		164	-29/+107				1829	AP
	PHR3-265TW BBxBB-NA black FR	908210	4.7	5.5	25.0	203	-23/+107		●		1829	EU
PU	PU150 CxF-NA black	908882	4.1	4.9	9.0	64	-29/+82	90			1829	AP
	PU150 HCxB-NA red	908892	5.1	5.9	11.0	64	-29/+82	90			1829	AP
	PU150 HCxF-NA red	908891	5.1	5.9	11.0	64	-29/+82	90			1829	AP
	PU2-150 HCxF-NA clear FDA	908887	5.1	6.3	8.0	102	-29/+82	90			1829	EU/AP
	PU2-150 HCxF-NA red	908889	5.1	6.3	8.0	64	-29/+82	90			1829	EU

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

Properties							Industries							
Food compliance with FDA	Stiff laterally	Troughable	Especially suitable for inclined conveying	Suitable for accumulation	Profiles on the top face / underside / sidewall	Food	Ind. Production	Logistics	Paper/Printing	Raw Materials	Sports/Leisure	Textiles	Tobacco
		●			●/●/–	●	●	●	●	●		●	
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* Established in line with ISO 21181:2005

** • Minimum drum diameter d_{min} with counter-bending (top face touches drum)
• Minimum drum diameter d_{min} with bending (driving face touches drum)
• Minimum radius r_{min} of a fixed knife edge (rX) or minimum diameter d_{min} of a rolling knife edge (dX) (driving face touches knife edge)

Missing values on request. The smallest permissible drum diameters were established at room temperature with z-splices and counter bending and do not apply to conveyor belts with mechanical fasteners. Lower temperatures, profiles and side walls can require larger drum diameters. On this point, see our brochure "Technical information 2" (ref. no. 318)

[1] Only bending (minimum drum diameter for counter-bending too large for testing)

● Yes

●● Yes, particularly suitable

❍ Partly suited, on request

Type code

PVC		120		LT	CT	X	B	-	NA	black
PVK		125N			C	X	FS	-	NA	black
PHR2	-	160			BB	X	BB	-	NA	black
PU2	-	150			HC	X	F	-	NA	red

										FR

- Flame retardant
- Colour
- Electrostatic properties
- Underside coating
- Top-face coating
- Belt feature
- Specified tension [lb/inch width], special tension member feature
- Product design, if required number of layers

Key

Product design

PVC	Interwoven PVC
PVK	Heavy interwoven PVC
PHR	Package-handling rubber
PU	Polyurethane
PF	Polar Flex

Tension member

MF	Monofilament fabric
N	Nylon
TW	Twill weave fabric

Belt feature

Carbox	Carboxylated NBR
FDA	Conform to FDA 21 CFR
FR	Flame Retardant, ASTM D-378
Grade II	Abrasion resistant
HI	High grip PVC
OFR	Oil, fat resistant
ORG	OSHA/MSHA Premium Oil Resistant to grain oils
O/M	OSHA/MSHA, FR
P	Standard PVC
Pure Gum	Natural rubber
LN	Low noise
LT	Low temperature
NA	Non antistatic

Top face/underside features

B	Brushed fabric
BB	Bareback fabric
F	Friction Fabric
FS	Package Handling Friction Specification
C	Smooth Cover (approx. 1 mm coating)
HC	Heavy smooth cover (approx. 2 mm coating)
CT	Crescent top
HM	Heavy matt cover (approx. 2 mm coating)
LI	Light impression
LR	Longitudinal rib
MRT	Mini-rough top
RT	Rough top

Siegling – total belting solutions

Committed staff, quality oriented organization and production processes ensure the constantly high standards of our products and services.

Forbo Movement Systems complies with total quality management principles. Our quality management system has ISO 9001 certification at all production and fabrication sites. What's more, many sites have ISO 14001 environmental management certification.

Forbo Siegling service – anytime, anywhere

The Forbo Siegling Group employs around 2,400 people. Our products are manufactured in ten 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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Forbo
MOVEMENT SYSTEMS

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