



GENERAL CATALOG

barbieri
NASTRI TRASPORTATORI
CONVEYOR BELTS





Who we are

Our strength lies in the great variety of products we offer, able to meet the requirements of all manufacturing businesses.

Barbieri Company was born in Verona city, North Italy in 1975 developing its activities mainly in the field of conveyor belts. Those were years when the innovation process was very dynamic, fast and right away the company was able to propose optimal solutions and to compete with reality at the time much stronger, more structured and organized. In a few years Barbieri company earns prestige and national dimension.

Today, after 40 years of experience and thanks to the recent reorganization of both operational and commercial offices in cities Verona and Vicenza, the Barbieri company has acquired more prestige on the international market by responding fully to the demands and needs of its customers both technologically both commercial and especially welfare.

A notable result of evolution, of which Barbieri Company is proud and which places it among the leading companies on the world market for rubber conveyor belts..

“ *Experience.
Quality.
Innovation.* ”

Our strengths



WIDE PRODUCT RANGE

A complete assortment of branded rubber conveyor belts and rubber articles of the proper type and quality, guaranteed by Barbieri to meet even the most diverse requirements of our clientele, offering custom products and customized solutions.



PRODUCT AVAILABILITY

The two subsidiaries in Verona and Marano Vicentino, located in the heart of the main industrial districts, keep stock on hand to provide the excellent commercial and logistics services, meeting clientele requirements in the quickest possible time.



FAST SERVICE

A standard process quickly and effectively meets customer requests, ensuring prompt delivery of orders while maintaining the highest levels of quality. This is synonymous for punctuality and is another good reason to put your trust in the professionalism of Barbieri.



QUALITY CONTROL

Barbieri bases its success on careful selection of components, on the size and assortment of its stock, on a management system offering precise traceability of product lots and, above all, on its expert staff. Product testing is another guarantee backing the product quality and reliability.

Mission

Barbieri has been following the same vision that has always been our key feature for more than 40 years, continuing to believe in people and in relationships, with special focus on future challenges without losing sight of the past.

BARBIERI Company after 40 years of experience, it produces and offers rubber conveyor belts and rubber articles marked to guarantee the quality and the type of product in response to the constant and growing technological evolution of the Italian market and abroad.

It has a large stock of the full range of processed products that ensures the management and the quick delivery of orders of its customers with a fair value for quality-price.

The two factories - Verona and Vicenza, North Italy - together represent a single large complex with a strategic position in the area for both the national and international market. Both locations have plant and advanced equipment for the processing and transformation of rubber which, together with specialized personnel, provide an innovative product and reliable for every type of industrial plant.

Quality Policy

We are proud of what we do. We want our customers to always be satisfied when they use our products.

Barbieri, thanks to constant and careful quality controls over all production phases, has received UNI EN ISO 9001:2015 certification, an important achievement that testifies to ongoing improvement and steady evolution towards the very best, aimed at customer satisfaction.

Continuous improving is the force behind Barbieri's endeavor to constantly define and refine its integrated quality and safety policy. Barbieri, thanks to the dedication of its staff, unceasingly continues on its path towards ever higher quality standards.

ZERTIFIKAT ♦ CERTIFICATE ♦ 認證證書 ♦ CERTIFICADO ♦ CERTIFICAT


Italia

CERTIFICATO

Nr 50 100 13851 - Rev.001

Si attesta che / This is to certify that

IL SISTEMA QUALITÀ DI
THE QUALITY SYSTEM OF


NASTRI TRASPORTATORI
CONVEYOR BELTS

BARBIERI S.r.l. NASTRI TRASPORTATORI

SEDE LEGALE E OPERATIVA:
REGISTERED OFFICE AND OPERATIONAL SITE:

VIA DELLA METALLURGIA 5 IT - 37139 VERONA (VR)

SEDE OPERATIVA: / OPERATIONAL SITE:

VIA MASO 7 IT - 36035 MARANO VICENTINO (VI)

Via Progresso 50 IT - 36035 MARANO VICENTINO (VI)

È CONFORME AI REQUISITI DELLA NORMA
HAS BEEN FOUND TO COMPLY WITH THE REQUIREMENTS OF

UNI EN ISO 9001:2015

QUESTO CERTIFICATO È VALIDO PER IL SEGUENTE CAMPO DI APPLICAZIONE
THIS CERTIFICATE IS VALID FOR THE FOLLOWING SCOPE

**Produzione, lavorazione, installazione e commercializzazione
di nastri trasportatori (IAF 14, 29)**

**Manufacturing, production, installation and trading of
conveyor belts (IAF 14, 29)**


L'ENTE ITALIANO DI ACCREDITAMENTO

SGQ N° 049A

Membro degli Accordi di Mutuo Riconoscimento
EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual
Recognition Agreements

Per l'Organismo di Certificazione
For the Certification Body
TÜV Italia S.r.l.

Validità / Validity

Dal / From: **2019-02-13**

Al / To: **2020-02-21**


Andrea Coscia
Direttore Divisione Business Assurance

Data emissione / Issuing Date
2019-02-13

PRIMA CERTIFICAZIONE / FIRST CERTIFICATION: 2017-02-22

"LA VALIDITÀ DEL PRESENTE CERTIFICATO È SUBORDINATA A SORVEGLIANZA PERIODICA A 12 MESI E AL RIESAME COMPLETO DEL SISTEMA DI GESTIONE AZIENDALE CON PERIODICITÀ TRIENNALE"

"THE VALIDITY OF THE PRESENT CERTIFICATE DEPENDS ON THE ANNUAL SURVEILLANCE EVERY 12 MONTHS AND ON THE COMPLETE REVIEW OF COMPANY'S MANAGEMENT SYSTEM AFTER THREE-YEARS"

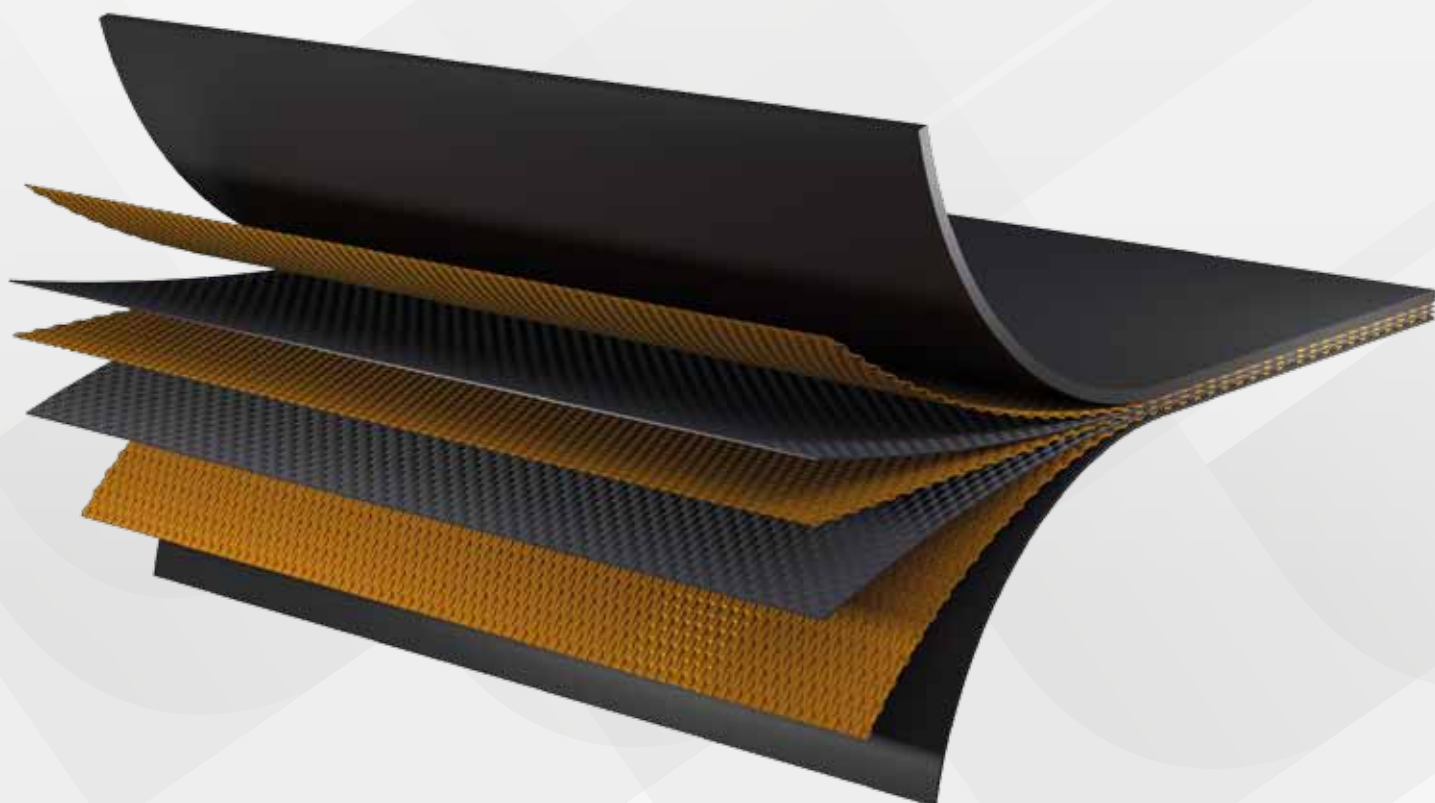
TÜV Italia S.r.l. • Gruppo TÜV SÜD • Via Carducci 125, Pal. 23 • 20099 Sesto San Giovanni (MI) • Italia • www.tuv.it 



Our lab

Our test lab constantly carries out specific tests to make sure that our products comply with the reference standards. The leading-edge test instruments and our specialized technicians ensure ongoing monitoring of materials during each phase of the production process, for the purpose of an utmost quality for our customers.







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Conveyor belts



Textile conveyor belts

EP belts with reinforcement feature a specific high-strength core with differentiated structure composed of warp polyester and weft nylon fabric. This is the "optimum" structure for the working conditions of the belt: high-strength and low-elongation weave in the lengthwise direction, impervious to weather and, above all, to moisture.

The nylon weft in the crosswise direction offers excellent flexibility for highly concave supporting stations and ensures exceptional impact resistance even from large-size falling materials.

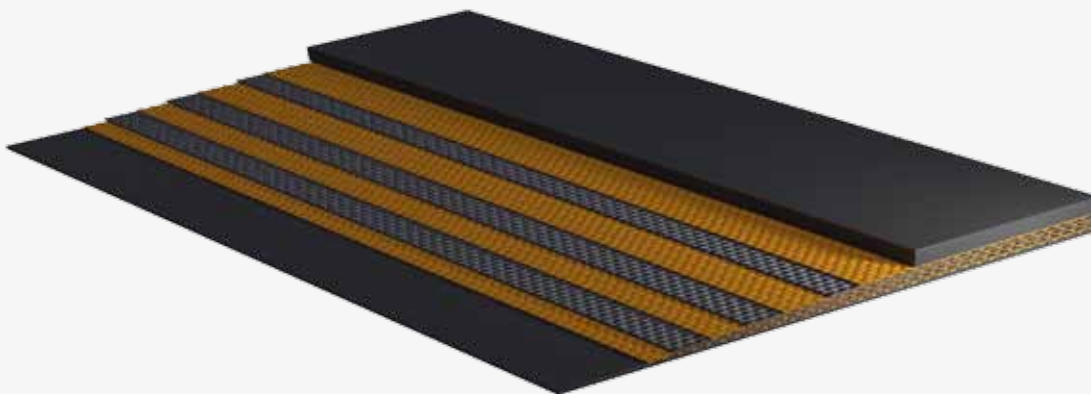
The **EP** code is followed by a set of digits that indicate the strength class, identified by the nominal value of the carcass tensile strength combined with the number of plies that compose it, for example **EP 630/4**.

EXAMPLE: EP 630/4 Breaking strength: 630 kg/cm Number of plies: 4

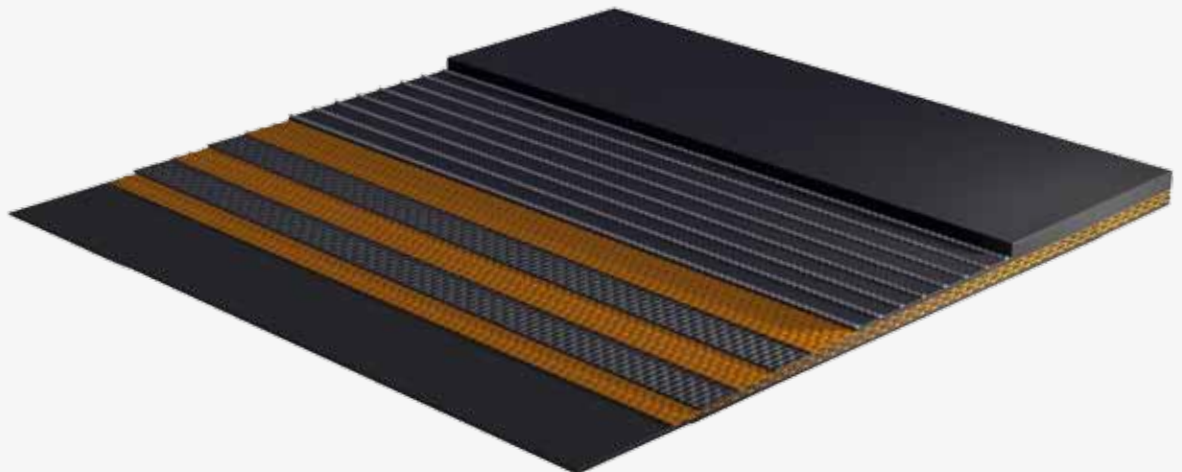
The textile carcass is protected by being bonded to appropriate rubber covers, chosen according to the requirements and working conditions such as:

- Degree of abrasiveness
- Material sizes
- Material temperature
- Presence of oil, grease, solvents, hydrocarbons, aggressive chemicals, etc.
- Non-flammability and anti-static properties requirements
- Particular environmental conditions such as low temperatures

EP carcasses, for special applications where high tear resistance is required, can be protected by **BKR** transverse metal breakers with 1.25 mm diameter cords at 5 mm pitch inserted between the carcass and the top cover.



EP CONVEYOR BELT



EP+BKR CONVEYOR BELT

FLEXIFER®

FLEXIFER® belts are used in all industrial sectors to convey medium-heavy cold and chemically inert materials.

They find uses in the iron and steel industry, mining industry, cement industry, concrete mixing equipment, foundries, glassworks, etc.

FLEXIFER® belts are produced with cut edges.

Standard covers: **N, Y** (see cover table on page 31)

BELT TYPE	NUMBER OF PLIES	CARCASS THICKNESS	CARCASS WEIGHT	MINIMUM PULLEY DIAMETER			STANDARD COVERS
				DRIVE	RETURN	SNUB	
	<i>n°</i>	<i>mm</i>	<i>Kg/m²</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>
EP 250/2	2	2.1	2.4	200	160	160	3+2
EP 315/2	2	2.6	2.8	250	200	160	4+2
EP 400/3	3	3.2	3.6	315	250	200	4+2
EP 500/4	4	4.2	4.7	400	315	250	5+2
EP 630/4	4	5.2	5.7	500	400	315	6+2

NOMAFER®

NOMAFER® belts are used where utmost performance is required of a textile carcass belt.

They are used to convey particularly abrasive, cutting and large-size materials, even with very long center distances.

Application fields include the iron and steel industry, mining, even

when self-extinguishing and anti-static properties are required, cement industry, glassworks, etc.

NOMAFER® belts are produced with molded edges.

Standard covers: **W, Y, X, K, S, GS** (see cover table on page 31)

BELT TYPE	NUMBER OF PLIES	CARCASS THICKNESS	CARCASS WEIGHT	MINIMUM PULLEY DIAMETER			STANDARD COVERS
				DRIVE	RETURN	SNUB	
	<i>n°</i>	<i>mm</i>	<i>Kg/m²</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>
EP 500/3	3	3.9	4.3	400	315	250	6+2
EP 630/3	3	4.1	4.6	500	400	315	6+2
EP 630/4	4	5.2	5.7	500	400	315	6+2
EP 800/3	3	5.0	5.6	630	500	400	8+3
EP 800/4	4	5.4	6.1	630	500	400	7+2
EP 800/5	5	6.5	7.1	630	500	400	8+2
EP 1000/3	3	5.1	5.9	800	630	500	8+3
EP 1000/4	4	6.6	7.5	800	630	500	7+2
EP 1000/5	5	6.8	7.7	800	630	500	8+2
EP 1250/4	4	6.8	7.9	1000	800	630	7+2
EP 1250/5	5	8.3	9.4	1000	800	630	8+3
EP 1600/4	4	8.8	10.1	1000	800	630	7+2
EP 1600/5	5	8.5	9.9	1250	1000	800	10+4
EP 2000/5	5	11.0	12.6	1250	1000	800	10+4

OLIFLEXIFER®

OLIFLEXIFER® belts are used where there is a need for outstanding characteristics of resistance to the aggressive action of mineral, vegetal and animal oils and greases. They ensure excellent resistance to aliphatic and aromatic solvents as well as good resistance to abrasion and tear.

These belts are used to convey petroleum coke, asphalt concrete, complex fertilizers processed with oils, glass scrap impregnated with oil, municipal solid waste, oil seeds, feeds, etc.

OLIFLEXIFER® belts are produced with molded edges.

Standard covers: **MOR, OR** (see cover table on page 31)

BELT TYPE	NUMBER OF PLIES	CARCASS THICKNESS	CARCASS WEIGHT	MINIMUM PULLEY DIAMETER			STANDARD COVERS
				DRIVE	RETURN	SNUB	
	<i>n°</i>	<i>mm</i>	<i>Kg/m²</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>
EP 250/2	2	2.1	2.4	200	160	160	4+2
EP 400/3	3	3.2	3.6	315	250	200	4+2
EP 500/4	4	4.2	4.7	400	315	250	5+2
EP 630/4	4	5.2	5.7	500	400	315	6+2



PIROFLEXIFER®

PIROFLEXIFER® belts are used for high temperature, acid and alkali resistance.

The series includes three types for use at different operating temperatures:

- **HR-130:** max. temperature 130°C
- **HR-150:** max. temperature 150°C
- **HR-180:** max. temperature 180°C

These belts are used to convey coke, clinker, hot steel agglomerates, roasted minerals, acid superphosphates, sulfur, etc.

PIROFLEXIFER® belts are produced with molded edges.

Standard covers: **HR-130, HR-150, HR-180** (see cover table on page 31)

BELT TYPE	NUMBER OF PLIES	CARCASS THICKNESS	CARCASS WEIGHT	MINIMUM PULLEY DIAMETER			STANDARD COVERS
				DRIVE	RETURN	SNUB	
	<i>n°</i>	<i>mm</i>	<i>Kg/m²</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>
EP 250/2	2	2.1	2.4	200	160	160	4+2
EP 400/3	3	3.2	3.6	315	250	200	4+2
EP 500/3	3	3.9	4.3	400	315	250	5+2
EP 500/4	4	4.2	4.7	400	315	250	5+2
EP 630/4	4	5.2	5.7	500	400	315	6+2
EP 800/4	4	5.4	6.1	630	500	400	8+3
EP 1000/4	4	6.6	7.5	800	630	500	8+3

SUPERPIROS®

SUPERPIROS® belts are the worldwide top-of-the-range belts for conveying very hot materials.

They also feature excellent abrasion resistance.

The series includes two types for use at different operating temperatures:

HR-220

temperature on the belt surface: 220°C maximum material temperature: 300°C

HR-300

temperature on the belt surface: 300°C maximum material temperature: 500°C

They are primarily used in the iron and steel industry to convey sinter and in the cement industry to convey clinker as well as in all other situations where the material is extremely hot.

SUPERPIROS® belts are produced with molded edges.

Standard covers: **HR-220, HR 300** (see cover table on page 31)

BELT TYPE	NUMBER OF PLIES	CARCASS THICKNESS	CARCASS WEIGHT	MINIMUM PULLEY DIAMETER			STANDARD COVERS
				DRIVE	RETURN	SNUB	
	<i>n°</i>	<i>mm</i>	<i>Kg/m²</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>
EP 315/2	2	2.6	2.8	200	180	180	4+2
EP 400/3	3	3.2	3.6	315	250	200	4+2
EP 500/3	3	3.9	4.3	400	315	250	5+2
EP 500/4	4	4.2	4.7	400	315	250	5+2
EP 630/4	4	5.2	5.7	500	400	315	6+2
EP 800/4	4	5.4	6.1	630	500	400	8+3
EP 1000/4	4	6.6	7.5	800	630	500	10+3



FLEXIFLAT®

FLEXIFLAT® belts have a low friction coefficient fabric on the bottom surface making them suitable for mounting on conveyors with sliding surfaces.

They are produced with high-strength polyester fabrics in monofilament weft for high transverse rigidity and perfect running straightness.

They are a good alternative to PVC belts due to their high abrasion and weather resistance.

They are used in the waste recycling industry, wood industry, ceramics industry, etc.

FLEXIFLAT® belts are produced with cut edges.

Standard covers: **N, HR-150, MOR, OR** (see cover table on page 31)



BELT TYPE	NUMBER OF PLIES	CARCASS THICKNESS	CARCASS WEIGHT	MINIMUM PULLEY DIAMETER			STANDARD COVERS
				DRIVE	RETURN	SNUB	
	<i>n°</i>	<i>mm</i>	<i>Kg/m²</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>
EP 250/2	2	2.4	2.8	150	120	120	1+0 2+0
EP 400/3	3	3.5	4.0	180	140	140	2+0 3+0
EP 500/4	4	4.5	5.1	300	250	250	4+0

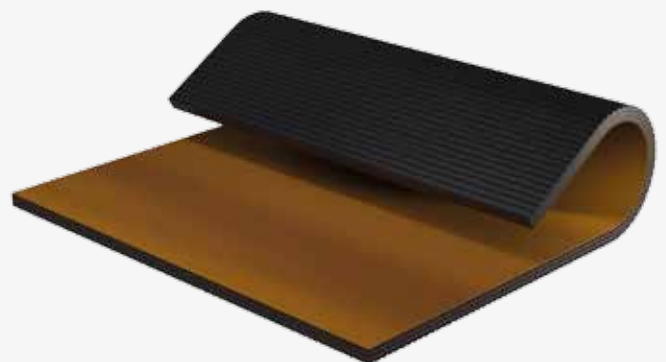
GRIFLEX®

GRIFLEX® belts feature a special rough top surface. They have good abrasion, tear and weather resistance. They are generally used for inclined conveyance of bulk and packaged products.

Maximum slope angle for inclined conveyance: 35°

GRIFLEX® belts are produced with cut edges.

Standard covers: **N, MOR** (see cover table on page 31)



BELT TYPE	NUMBER OF PLIES	CARCASS THICKNESS	CARCASS WEIGHT	MINIMUM PULLEY DIAMETER			STANDARD COVERS
				DRIVE	RETURN	SNUB	
	<i>n°</i>	<i>mm</i>	<i>Kg/m²</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>
EP 250/2	2	2.1	2.4	150	120	120	3+0
EP 400/3	3	3.2	3.6	180	140	140	3+0
EP 500/4	4	4.2	4.7	300	250	250	3+0



ATEX

Conveyor belts made of standard covers, if used in potentially explosive atmosphere, may presents a risk of ignition from static electricity or heat due to friction and it would be highly flammable.

For safety purposes, belts for this particular application, should facilitate discharge of static electricity and avoiding any type of explosions and fire propagation.

European standards specify the safety parameters of this type of conveyor belt:

- **Antistatic performance in accordance with ISO 284**
- **Fire resistance in accordance with ISO 340**

The European Union has issued the **ATEX directive 2014/34/EU**, defining 3 areas depending on the explosion risk:

- **Zone 0/20** : Permanent explosive atmosphère presence of Gas and Dust,
- **Zone 1/21** : Occasionally explosive atmosphère presence of Gas and Dust,
- **Zone 2/22** : Accidental explosive atmosphere presence of Gas and Dust (dysfunction).

MARKING

0948  II 1D Ex h IIIC Da

0948  II 1G Ex h IIC Ga

ZONE 2/22

accidental
explosive atmosphère

ZONE 1/21

occasionally
explosive atmosphère

ZONE 0/20


permanent
explosive atmosphère

FIRETEX®

BARBIERI belt **FIRETEX®** can be used in **Zones 20, 21, 22** for Dust and **Zones 0, 1, 2** for Gas, a notified body carries out an annual audit to check the manufacturing process for this Ex equipment according

to EN ISO/IEC 80079-34, 80079-36, 80079-37 ATEX and issue ATEX quality certification (n. **TÜV IT 18 ATEX 028 Q**) and ATEX product certification (n. **TÜV IT 18 ATEX 011 U**).

CERTIFICADO ◆ CERTIFICAT



AT ◆ CERTIFICADO ◆ CERTIFICAT

[11] **SCHEDULE**

[12] **PRODUCTION QUALITY ASSURANCE NOTIFICATION**

no. **TÜV IT 18 ATEX 028 Q**

[13] **List of EU-type examination certificate**

EU-type examination certificate	equipment or protective system or component	protection concepts
TÜV IT 18 ATEX 011 U	Conveyor belt series FIRETEX®	Ex h – constructional safety "c"

ZERTIFIKAT ◆ CERTIFICATE ◆ CERTIFICADO ◆ CERTIFICAT

NOTIFICATION



[1] **PRODUCTION QUALITY ASSURANCE NOTIFICATION**

[2] **Equipment or Protective System or Component intended for use in potentially explosive atmospheres Directive 2014/34/EU**

[3] Notification number:
TÜV IT 18 ATEX 028 Q

[4] Equipment or Component as listed: Conveyor belt
Protection concepts: Constructional safety "c"

[5] Manufacturer: **BARBIERI S.r.l. Nastri Trasportatori**
Via della Metallurgia, 5
I-37139 Verona (VR) - ITALIA

[6] Sites audited: **BARBIERI S.r.l. Nastri Trasportatori**
Via della Metallurgia, 5
I-37139 Verona (VR) - ITALIA
BARBIERI S.r.l. Nastri Trasportatori
Via Maso, 7
I-36035 Marano Vicentino (VI) - ITALIA

[7] TÜV Italia, notified body no. 0948 in accordance with the Council Directive 2014/34/EU of 26 February 2014, notifies that the manufacturer has a production quality system which complies to Annex IV of the Directive.

[8] This notification is based on audit report no. R 18 EX 023 issued the 24th 04 2018
This notification can be withdrawn if the manufacturer no longer satisfies the requirement of Annex IV.
Results of periodical re-assessment of the quality system are a part of this notification.

[9] This notification is valid until 06.05.2021 and can be withdrawn if the Manufacturer does not satisfy the production quality assurance re-assessment.

[10] According to Article 16 paragraph 3 of the Directive 2014/34/EU the CE marking shall be followed by the identification no. 0948 identifying the notified body involved in the production control stage.

This notification may only be reproduced in its entirety and without any change.
Issue date: 07th May 2018


PRD N° 081B
Membro degli Accordi di Mutuo Riconoscimento EA, UK e ILAC
Signatory of EA, UK and ILAC Mutual Recognition Agreements


TÜV Italia S.r.l.
Notified Body N° 0948

Alberto Carelli
Industry Service - Real Estate & Infrastructure
Managing Director

TÜV Italia has been authorized by Italian government to operate as notified body for the certification of equipment or protective system intended for use in potentially explosive atmospheres. This document is not valid without official signature and logo. The internal reference code is 722152317.

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PEX-01-M007_r09 del 29/03/2018

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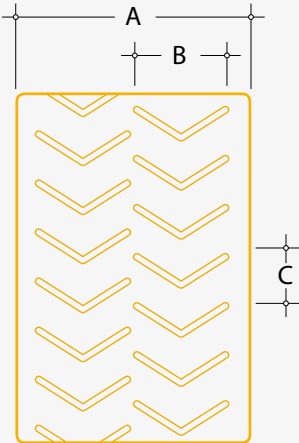
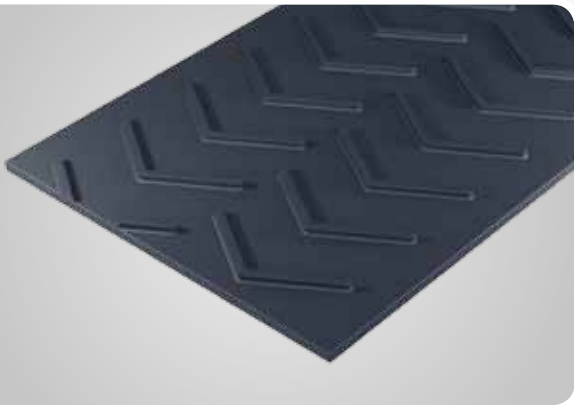
FLEXIFER® LS

FLEXIFER® LS belt are used to convey medium and large-size bulk materials on inclined tracks. These are Chevron belts which, depending on the type, can reach maximum slope angles from 30° to 40°. Profile heights can be **6mm, 15mm, 17mm, 25mm or 32mm** with patterns designed for maximum carrying capacities. Two compounds of different hardness are used to create covers that are abrasion and tear resistant while the profiles are in a softer

compound, more flexible when winding around drums. **FLEXIFER® LS** belts are produced with molded edges. Standard covers: **N, HR-150, OR (see cover table on page 31)** **LS** belts are also produced with low friction coefficient fabric plies on the bottom surface (**FLEXIFER® LS**) so that belts can be mounted on conveyors with sliding surfaces.

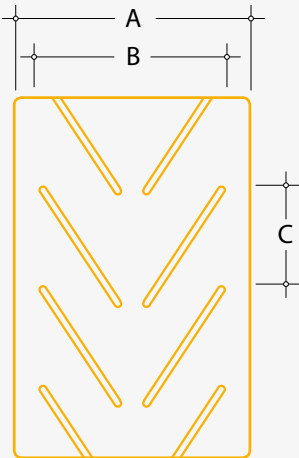
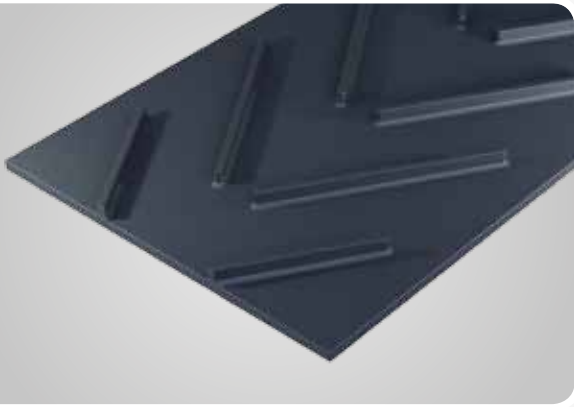
BELT TYPE	NUMBER OF PLYS	CARCASS THICKNESS	CARCASS WEIGHT	MINIMUM PULLEY DIAMETER			STANDARD COVERS
				DRIVE	RETURN	SNUB	
	<i>n°</i>	<i>mm</i>	<i>Kg/m²</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>	
EP 250/2	2	2.1	2.4	200	160	160	3+2
EP 400/3	3	3.2	3.6	315	250	200	3+2
EP 500/3	3	3.9	4.3	400	315	250	3+2
EP 630/3	3	4.1	4.6	500	400	315	4+2

LS 6



TYPE	A	B	C
	<i>mm</i>	<i>mm</i>	<i>mm</i>
C6V25	300-2000	145	80

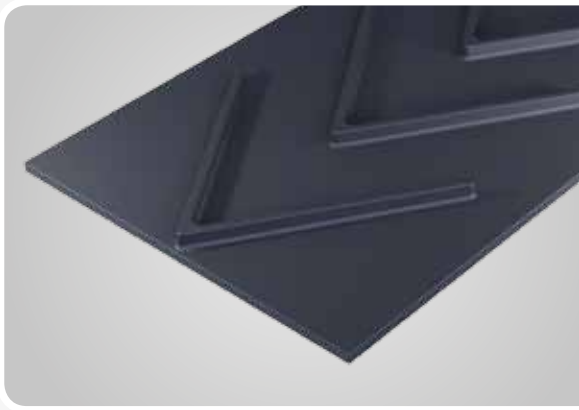
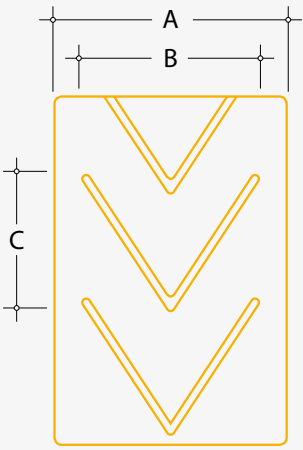
LS 15 A



TYPE	A	B	C
	<i>mm</i>	<i>mm</i>	<i>mm</i>
C15V300A	400-650	300	150
C15V385A	500-800	385	250
C15V580A	650-1200	580	250
C15V750A	1000-1400	750	250

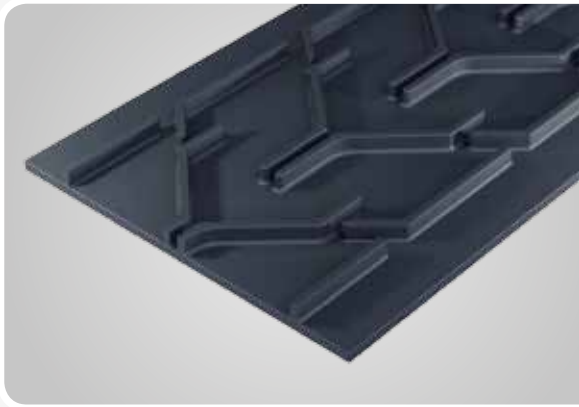
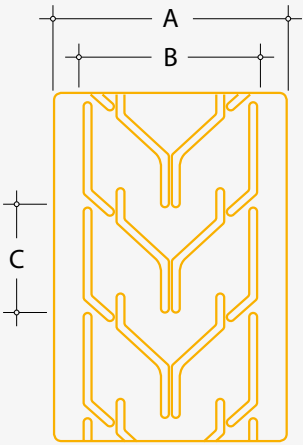
LS 15 C

TYPE	A	B	C
	mm	mm	mm
C15V330C	400-650	330	250
C15V450C	500-800	440	300



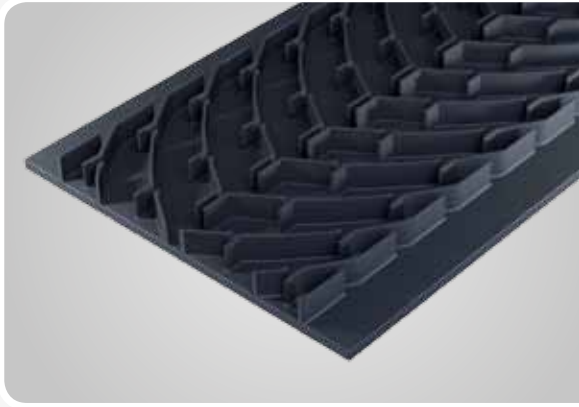
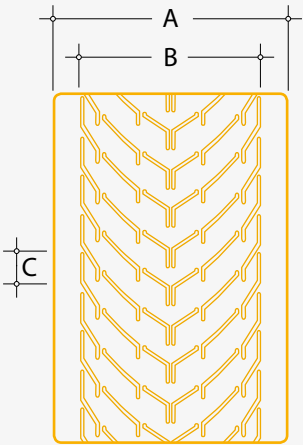
LS 17

TYPE	A	B	C
	mm	mm	mm
C17P300	400-650	300	330
C17P440	500-800	440	330
C17P550	650-1000	550	330
C17P630	650-1000	630	330
C17P750	800-1200	750	330
C17P950	1000-1500	950	330



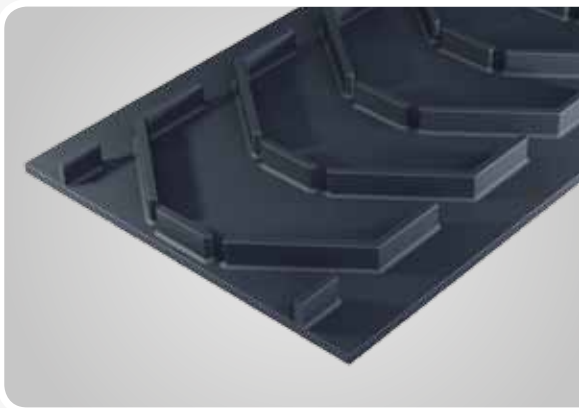
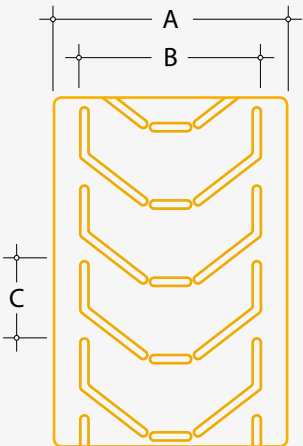
LS 25 A

TYPE	A	B	C
	mm	mm	mm
C25P540	600-800	540	250
C25P840	1000-1200	840	250
C25P1120	1200-1400	1120	250
C25P1330	1400-1600	1330	250
C25P1610	1800-2000	1610	250

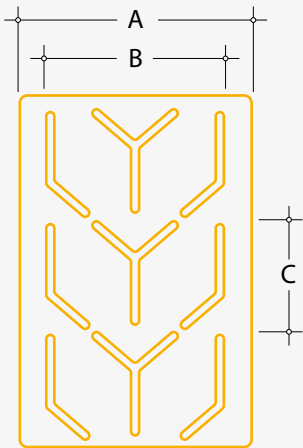
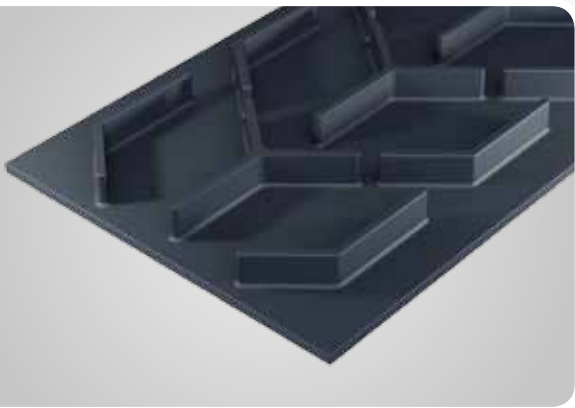


LS 25 B

TYPE	A	B	C
	mm	mm	mm
C25P450	500-800	450	330
C25P550	650-1000	550	330
C25P750	800-1200	750	330

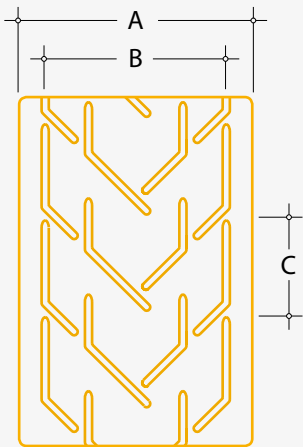
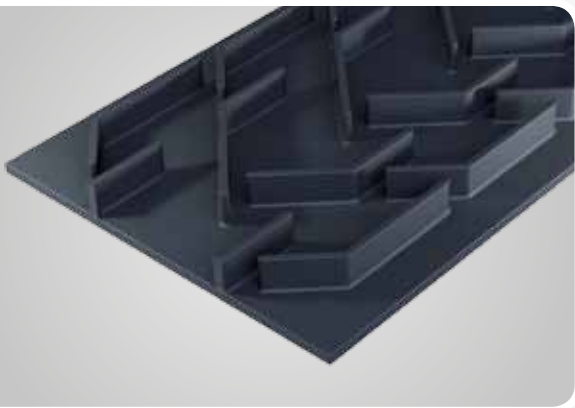


LS 32 A



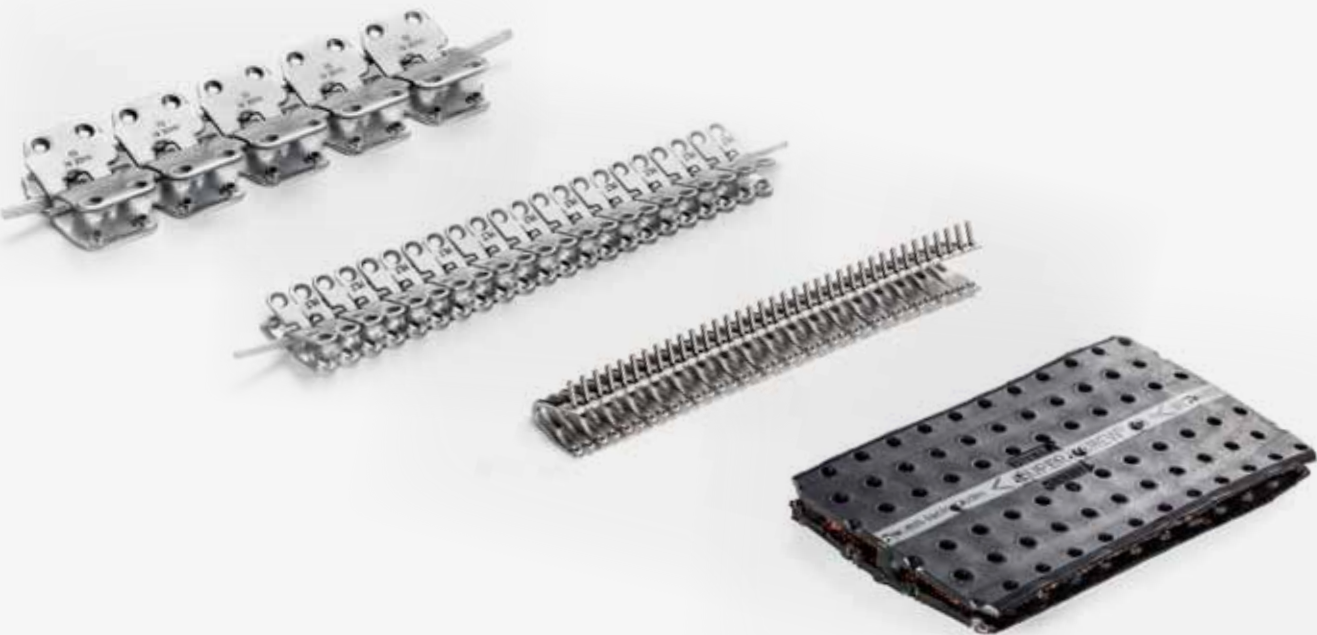
TYPE	A	B	C
	mm	mm	mm
Y32P600	650-1000	600	330
Y32P800	1000-1200	800	330

LS 32 B



TYPE	A	B	C
	mm	mm	mm
C32P460	550-1000	460	330
C32P580	650-1000	580	330
C32P630	700-1000	630	330
C32P750	850-1400	750	330

Mechanical joint systems for textile belts



ALIFLEXIFER®

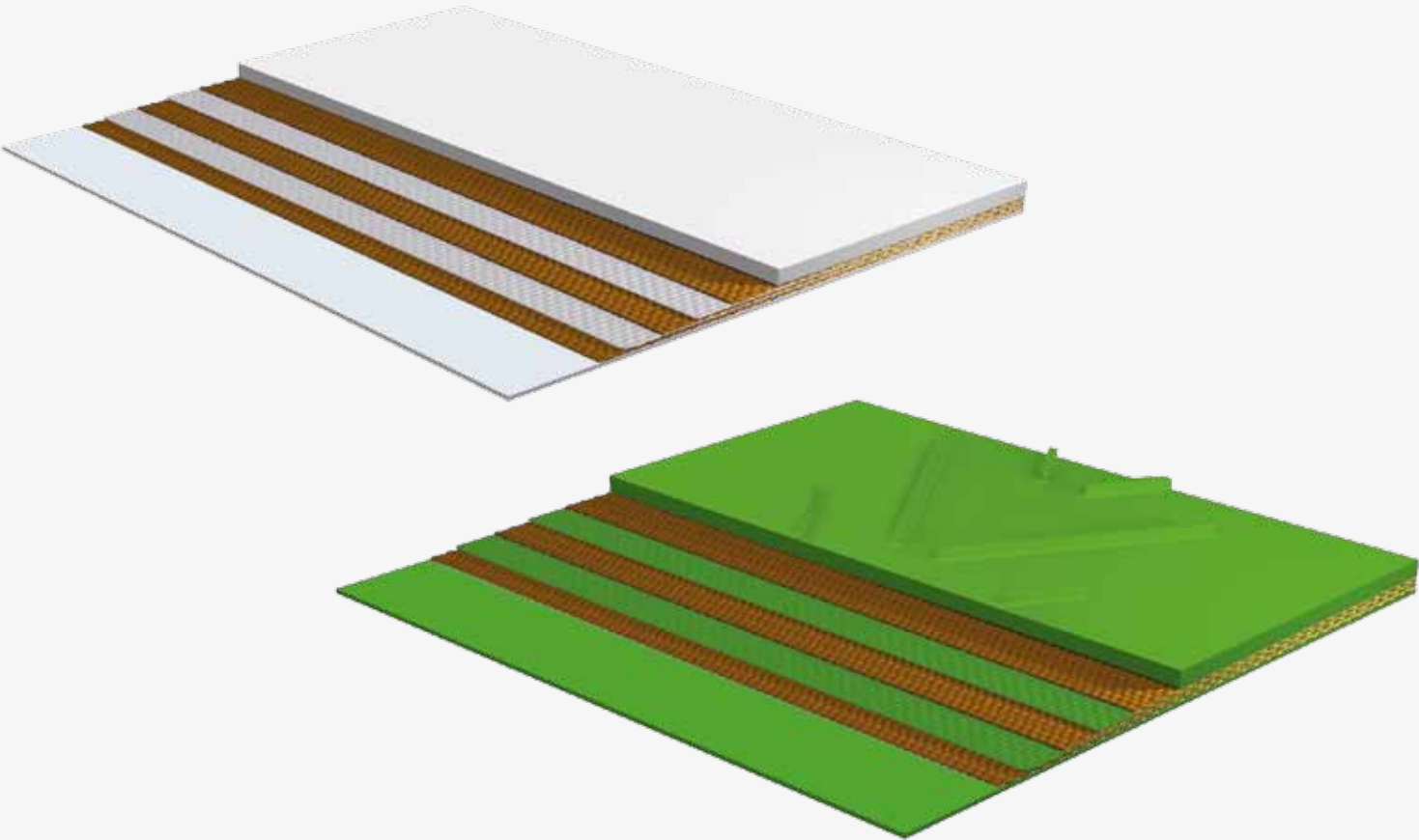
ALIFLEXIFER® belts find many uses, including the agri-food industry where foods for human consumption are governed by directives to prevent contamination of the products carried by the belt. ALIFLEXIFER® belts meet FDA requirements. These belts are

manufactured in white or green and can also be used in the ceramics industry as well as to transport sugar, salt, rice, grain, olives, etc. ALIFLEXIFER® belts are made with cut edges and can be made with CHEVRON profiles.

BELT TYPE	NUMBER OF PLIES	CARCASS THICKNESS	CARCASS WEIGHT	MINIMUM PULLEY DIAMETER			STANDARD COVERS
				DRIVE	RETURN	SNUB	
	<i>n°</i>	<i>mm</i>	<i>Kg/m²</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>
EP 250/2	2	2.1	2.4	200	160	160	3+2
EP 315/2	2	2.6	2.8	250	200	160	4+2
EP 400/3	3	3.2	3.6	315	250	200	4+2
EP 500/4	4	4.2	4.7	400	315	250	5+2
EP 630/4	4	5.2	5.7	500	400	315	6+2

ALIFLEXIFER® belts are also made for vertical material transport.

BELT TYPE	BREAKING STRENGTH	WORKLOAD	NUMBER OF PLIES	PLY TYPE EP	TOTAL THICKNESS	COVER THICKNESS TOP/BOTTOM	WEIGHT
	<i>N/mm</i>	<i>N/mm</i>			<i>mm</i>	<i>mm</i>	<i>Kg/m</i>
EP 400	400	40	2	200	7.0	2+2	8.0
EP 600	600	60	3	200	8.5	2+2	9.5
EP 800	800	80	4	200	10.0	2+2	12.0
EP 1000	1000	100	4	250	11.0	3+3	12.5
EP 1250	1250	125	5	250	12.0	3+3	14.0
EP 1600	1600	160	5	300	13.0	3+3	15.2



Metal conveyor belts

SIDERFER®

SIDERFER® metal carcass belts are used for minimum loading elongations (0.2% - 0.3%) so that plant tensioning devices can be adjusted with limited travels even for very long tracks.

The high specific load of the **SIDERFER®** steel structures allows conveyors to be installed with long center distances, on the order of 15 Km.

SIDERFER® structures allow the belt to perfectly adapt to even very concave supporting stations.

Lengthwise flexibility permits use of small diameter drums.

The size stability of the **SIDERFER®** carcass ensures perfect running straightness and high operating speeds.

The elasticity characteristics of the metal carcasses and the high level of bonding between carcass and rubber give our **SIDERFER®** belts excellent impact resistance caused by falling materials on the belt, extending their application area to include conveyance of heavy and large-size materials.

These belts come in three types:

- **SIDERFER® ST**
- **SIDERFER® IW**
- **SIDERFER® SW**

Rubber covers are designed and selected according to specific requirements of the plant and the material being conveyed. Special attention is focused on:

- Degree of abrasiveness and material sizes
- Material size Material temperature
- Presence of oil, grease, solvents, hydrocarbons, aggressive chemicals, etc.
- Self-extinguishing and anti-static properties requirements
- Extreme environmental conditions such as low temperatures

SIDERFER® ST

SIDERFER® ST belts are made of:

Special high carbon content steel strand cords. Special heat treatment makes the cord highly resistant to breakage and repeated dynamic stresses as well as highly flexible. Diameters of the strand wires vary from 0.25 to 0.7 mm and ensure strength of up to 260 Kg/mm². These cords are hot galvanized to protect them against corrosion and ensure good bonding with the rubber.

The carcass is made by inserting the uniformly taut cords into a rubber sheet with direct bonding.

The cords are laid parallel into the carcass at even pitches, perfectly co-planar and alternating layouts with "S" and "Z" windings.

Carcasses made in this way ensure:

- Total cord collaboration
- Great resistance to repeated dynamic stresses
- Perfect running stability
- Exceptional features of lengthwise and transverse flexibility
- High resistance to removal of the cords from the rubber

SIDERFER® ST belts are produced with molded edges.

Standard covers: **N, Y, X, HR-150, K, G, S, GS** (see cover table on page 31)

The **FLEXOTEC®** protection system makes **SIDERFER® ST** belts the leaders in increased impact resistance. Synthetic fiber cords, with 1.5 2.5 3.0 3.5 and 4.0 mm diameters, are placed crosswise above and below or just above the metal weft, separated by a protective rubber sheet to which they are permanently fastened by a special process that ensures thermal stability, capacity to adapt to dynamic stresses and resistance to moisture.

The result, proven by parallel tests, is an increase in shear strength going from 50% (in case of reinforcement on a single side) to at least double (in case of reinforcement on both sides).



SIDERFER® ST CONVEYOR BELT



SIDERFER® ST+FLEXOTEC CONVEYOR BELT

TECHNICAL DATA SIDERFER® ST (DIN 22131)																	
BELT TYPE	ST400	ST500	ST630	ST800	ST1000	ST1250	ST1600	ST1800	ST2000	ST2500	ST3150	ST3500	ST4000	ST4500	ST5000	ST5400	ST6300
Tensile strength (N/mm)	400	500	630	800	1000	1250	1600	1800	2000	2500	3150	3500	4000	4500	5000	5400	6300
Cord tensile strength (Kn)	5.3	5.3	10.0	11.5	13.2	19.2	26.4	26.4	26.4	41.2	52.0	57.7	66.0	79.2	93.5	101.0	118.0
Cord Diameter (mm)	2.5	2.5	3.3	3.5	4.1	4.9	5.6	5.6	5.6	7.2	8.1	8.6	8.9	9.7	10.9	11.3	12.3
Pitch cord ± 1.5 (mm)	12	10	13.5	13.5	12	14	15	13	12	15	15	15	15	16	17	17	17
Belt width	Tolerance	n _s = number of cords															
500	±5	40	48	36	36	40	34										
650	±7	53	63	47	47	52	44										
800	±8	65	78	58	58	64	55	50	58	62	50	50	50	50			
1000	±10	82	98	73	98	81	69	64	73	78	64	64	64	59	55	55	55
1200	±10	98	118	87	87	97	84	77	88	97	77	77	77	71	66	66	66
1400	±12	115	138	102	102	114	98	90	104	114	90	90	90	84	78	78	78
1600	±12	132	158	117	117	131	112	104	120	131	104	104	104	96	90	90	90
1800	±14	148	177	131	131	147	126	117	136	147	117	117	117	109	102	102	102
2000	±14	164	197	146	146	164	141	130	150	164	130	130	130	121	113	113	113
2200	±15			161	161	181	155	144	166	181	144	144	144	134	125	125	125
2400	±15			175	175	197	169	157	182	197	157	157	157	146	137	137	137
2600	±15			190	190	214	184	170	196	214	170	170	170	159	149	149	149
2800	±15							184	212	231	184	184	184	171	161	161	161
3000	±15							197	227	247	197	197	197	184	172	172	172
3200	±15										210	210	210	196	184	184	184

MINIMUM PULLEY DIAMETER																	
BELT TYPE	ST400	ST500	ST630	ST800	ST1000	ST1250	ST1600	ST1800	ST2000	ST2500	ST3150	ST3500	ST4000	ST4500	ST5000	ST5400	ST6300
DRIVE	400	500	500	630	800	800	1000	1000	1000	1250	1250	1250	1400	1400	1600	1600	1800
RETURN	315	400	400	500	630	630	800	800	800	1000	1000	1000	1250	1250	1400	1400	1600
SNUB	250	315	315	400	500	500	500	500	500	630	630	630	800	800	1000	1000	1250

SIDERFER® IW - SIDERFER® SW

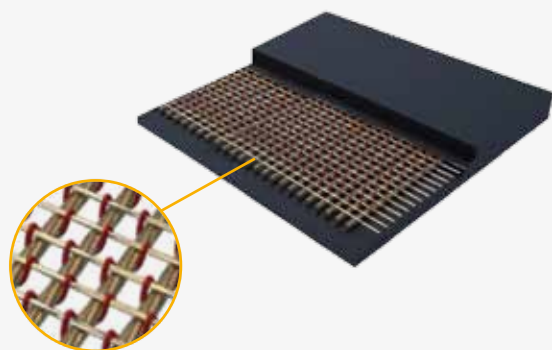
A metal carcass featuring special technical characteristics has been designed for situations where the conveyor belt must meet high performance as to elongation, flexibility, impact and shear resistance. This carcass is the base structure for **SIDERFER® IW** and **SIDERFER® SW** belts.

Steel cords are placed longitudinally, brass-plated to ensure maximum bonding with the rubber, creating the warp to which the weft, also made of brass-plated steel cords, is joined. This creates an extremely agile and flexible carcass that can be mounted on smaller drums compared to textile belts of the same class. This generates energy savings for the entire plant.

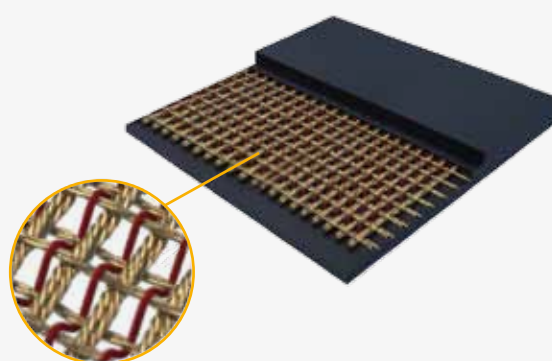
The cross weft can, as required, be **single (IW)** or **double (SW)**, and ensures the very highest levels of lengthwise shear strength.

SIDERFER®IW and **SIDERFER®SW** belts are produced with molded edges.

Standard covers: **W, Y, X, HR-150, HR-300, K, GS, OR** (see cover table on page 31)



SIDERFER® IW



SIDERFER® SW

TECHNICAL DATA SIDERFER® IW

BELT TYPE	BREAKING STRENGTH	CARCASS THICKNESS	CARCASS WEIGHT	WARP DENSITY CORDS	WARP DIAMETER CORDS	WARP PITCH CORDS	WEFT DENSITY CORDS	WEFT DIAMETER CORDS	WEFT PITCH CORDS
	N/mm	mm	Kg/m ²	cavi/m	mm	mm	cavi/m	mm	mm
IW 500	500	3.2	2.45	172	2.00	5.81	57	1.52	17.5
IW 630	630	3.2	2.95	216	2.00	4.63	57	1.52	17.5
IW 800	800	4.5	4.15	150	2.85	6.67	50	2.10	20.0
IW 1000	1000	4.5	5.00	186	2.85	5.38	50	2.10	20.0
IW 1250	1250	6.0	6.35	142	3.90	7.04	50	2.40	20.0
IW 1400	1400	6.0	7.05	160	3.90	6.25	50	2.40	20.0
IW 1600	1600	6.0	7.90	182	3.90	5.50	50	2.40	20.0
IW 2000	2000	6.0	8.50	225	3.90	5.10	50	2.40	20.0

TECHNICAL DATA SIDERFER® SW

BELT TYPE	BREAKING STRENGTH	CARCASS THICKNESS	CARCASS WEIGHT	WARP DENSITY CORDS	WARP DIAMETER CORDS	WARP PITCH CORDS	WEFT DENSITY CORDS	WEFT DIAMETER CORDS	WEFT PITCH CORDS
	N/mm	mm	Kg/m ²	cavi/m	mm	mm	cavi/m	mm	mm
SW 500	500	4.6	3.10	172	2.00	5.81	150	1.29	6.67
SW 630	630	4.6	3.60	216	2.00	4.63	150	1.29	6.67
SW 800	800	5.4	4.55	150	2.85	6.67	150	1.29	6.67
SW 1000	1000	5.4	5.40	186	2.85	5.38	150	1.29	6.67
SW 1250	1250	6.3	6.50	142	3.90	7.04	150	1.29	6.67
SW 1400	1400	6.3	7.25	160	3.90	6.25	150	1.29	6.67
SW 1600	1600	6.3	8.10	182	3.90	5.50	150	1.29	6.67
SW 2000	2000	6.3	9.30	215	3.90	4.65	150	1.29	6.67

FLEXPIPE® and SIDERPIPE®

Our tubular belt technology has been developed as a result of greater focus on the environment protection issues, especially in plants bordering parks or residential areas.

The carcass, made of multiply synthetic fabric (**FLEXPIPE®**) or steel cords (**SIDERPIPE®**), is designed with technical features that ensure the high transverse flexibility being required so that the belt can take the form of a “pipe” in sections where this is an advantage. In other areas where loading and unloading make this more convenient, the belt flattens out to adapt perfectly even to trough conveyors.

Passage from flat to tubular shape is created by rollers that are increasingly inclined until they have a hexagonal shape around the “pipe” created by the belt.

In the sections where the belt takes its tubular shape, it allows horizontal and vertical curves with short radius; slope angles of up to 35° can be easily overcome, no conveyed material is dispersed and the material is highly protected against potentially harmful environmental conditions (for example moisture for the cement).

We perform specific calculations, based on the quantity and type of material to be conveyed, to determine the type, class and width of the belt to guarantee the necessary carrying capacity.

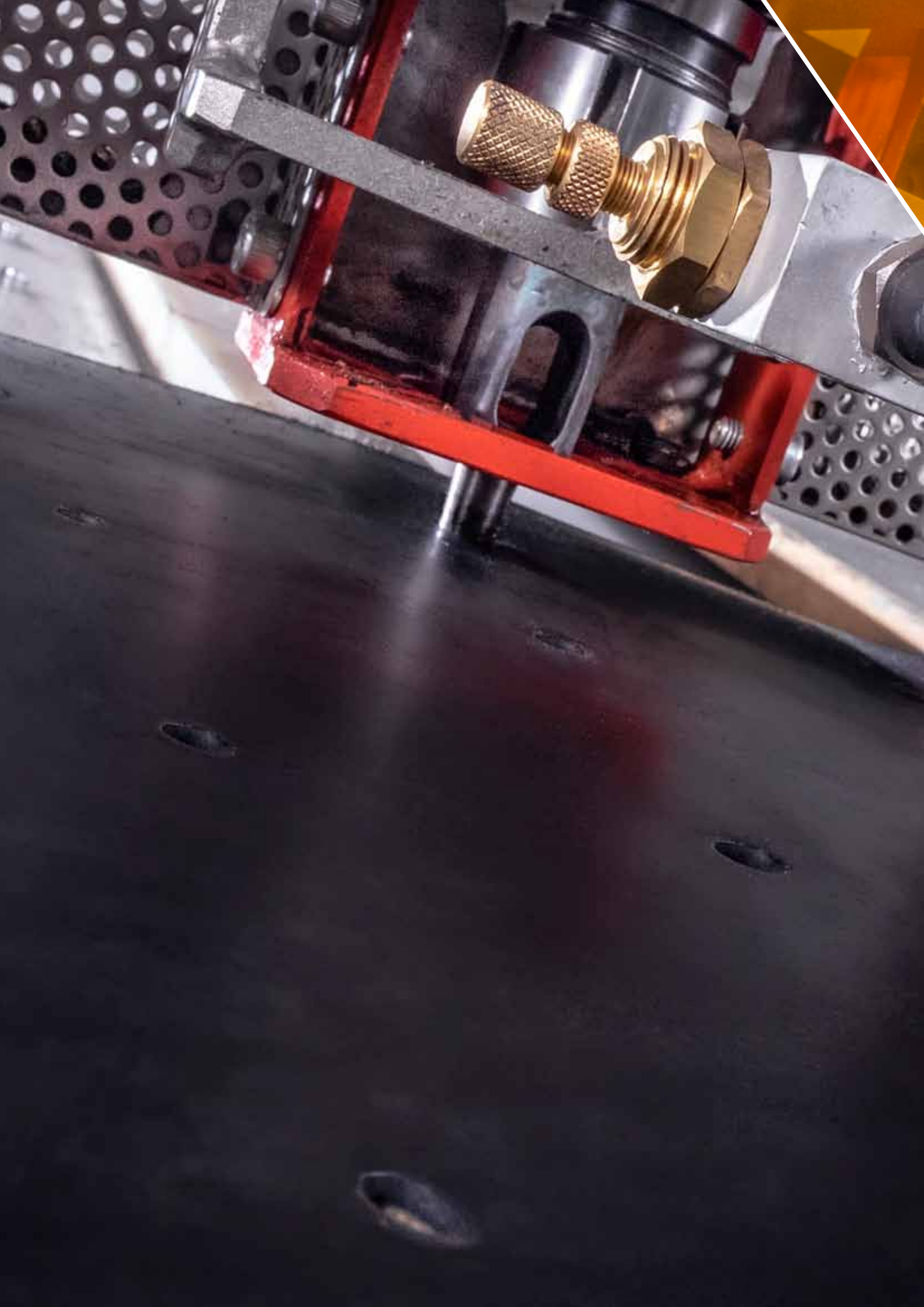
FLEXPIPE® belts are generally installed in runs that are not too long whereas **SIDERPIPE®**, thanks to reduced elongation and consequently a reduced need for tensioning units, can run greater distances

FLEXPIPE® and **SIDERPIPE®** belts are produced with molded edges. Standard covers: **W, Y, X, HR – 150, HR – 180, K, OR** (see cover table on page 31)

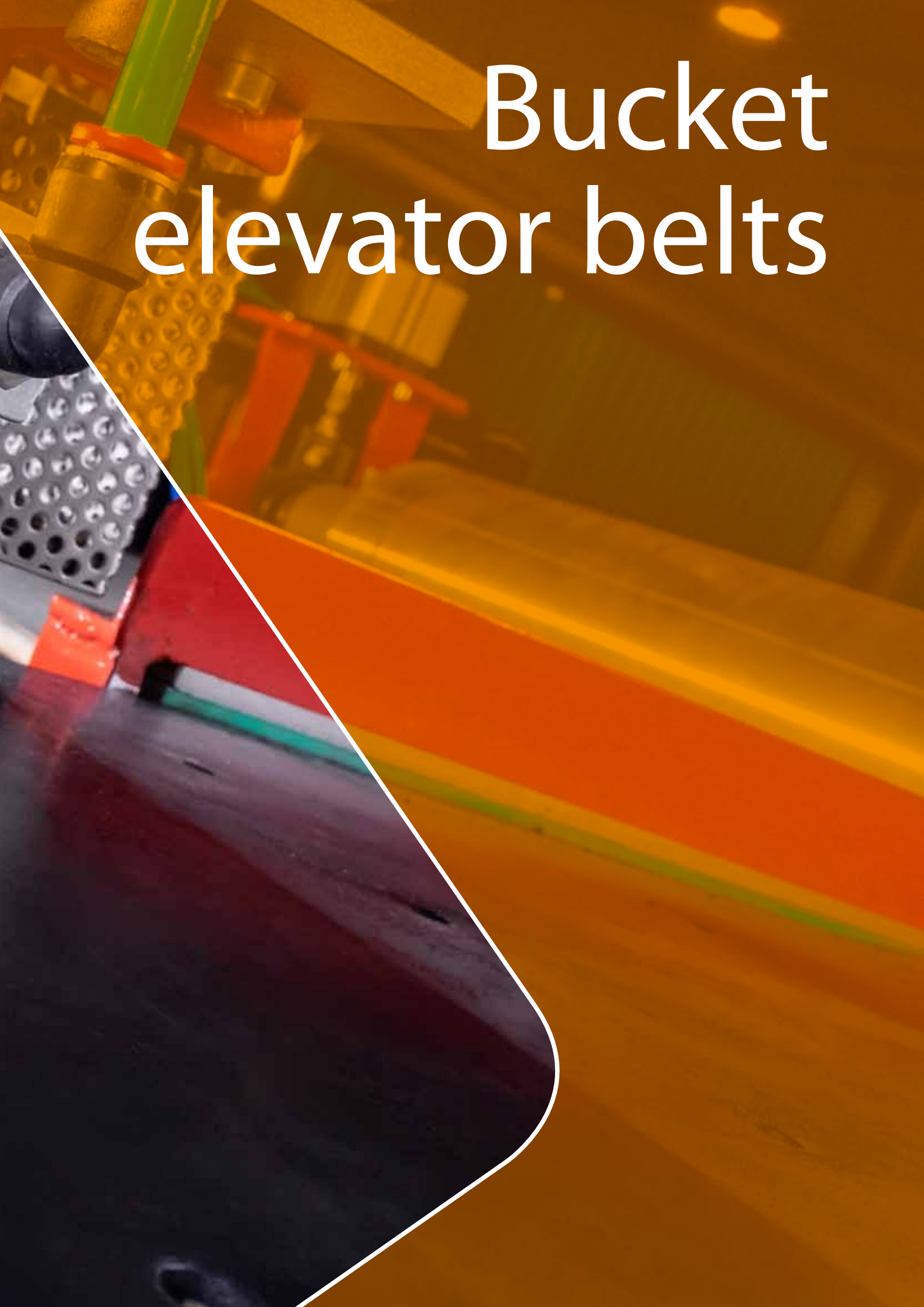


TECHNICAL DATA FLEXPIPE® E SIDERPIPE®			
DIAMETER PIPE	BELT WIDTH	FLOW RATE IN v=1 m/s 75% OF ABILITY	MAX. SIZE
mm	mm	m³/h	mm
150	600	45	40
200	700	85	60
210	750	95	65
220	800	100	70
250	1000	130	80
450	1600	430	140
500	1850	530	160
850	3200	1500	250





Bucket elevator belts



Bucket elevators

Our belts for bucket elevators are used for vertical conveyance of material and are employed in many sectors. They require little space to overcome even great differences in level, as they develop in height.

Given the structure of the conveyor, it is always important to pay attention to the risk of explosions caused by flammable dust. This can be solved by installing belts made of special and specifically certified compounds.

Our belts for bucket elevators can have textile (**FLEXOSIL®**) or metal (**SIDERSIL®**) carcasses.

Standard covers: **N, W, Y, HR-150, HR-220, K, GS, MON OR** (see cover table on page 31)



FLEXOSIL® textile elevators

The core is made of synthetic weft and warp fabrics with reinforced weft to better withstand stresses from the buckets, especially during loading and unloading phases.

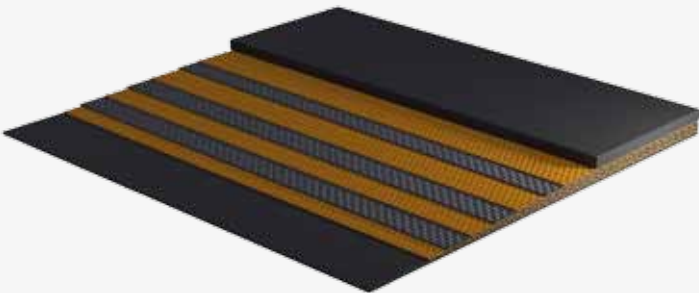
Fibers are appropriately treated for low elongation and high Flexibility. The top and bottom covers, generally having the same

thickness, protect the carcass and at the same time embed the heads of the fastening bolts.

FLEXOSIL® belts are produced with cut edges.

BELT TYPE	BREAKING STRENGTH	WORKLOAD	NUMBER OF PLIES	PLY TYPE EP	TOTAL THICKNESS	COVER THICKNESS TOP/BOTTOM	WEIGHT
	N/mm	N/mm			mm	mm	Kg/m
EP 400	400	40	2	200	7.0	2+2	8.0
EP 600	600	60	3	200	8.5	2+2	9.5
EP 800	800	80	4	200	10.0	2+2	12.0
EP 1000	1000	100	4	250	11.0	3+3	12.5
EP 1250	1250	125	5	250	12.0	3+3	14.0
EP 1600	1600	160	5	300	13.0	3+3	15.2

Joint system for textile elevators



FLEXOSIL®

SIDERSIL®ST metal elevators

The core is made of a warp of metal cords, separated by rubber cushions from the top and bottom weave, also made of metal cords. Cords are made of twined strains to achieve maximum penetration and consequent bond of the rubber (fundamental especially in the presence of high temperatures). ST metal elevators can achieve the highest breaking strengths, up to 4000 N/mm.

On specific request **SIDERSIL® ST** belts can be made without longitudinal cords at the point where they are perforated. **SIDERSIL®ST** belts are produced with molded edges.

BELT TYPE	BELT STRENGTH	MAX CORD DIAMETER	PITHC	TRASVERSAL REINFORCEMENT	CARCASS THICKNESS	MIN. PULLEY DIAMETER	CORD STRENGTH
	N/mm	mm	Kg/m ²	cavi/m	mm	cavi/m	mm
ST 630	630	3.3	13	steel breaker fabric	12.75	600	7.04
ST 800	800	3.5	13	steel breaker fabric	13.30	700	10.30
ST 1000	1000	4.1	12	steel breaker fabric	13.60	800	13.30
ST 1250	1250	4.9	14	steel breaker fabric	14.40	950	19.70
ST 1600	1600	5.6	15	steel breaker fabric	16.40	1050	19.70
ST 2000	2000	5.6	12	steel breaker fabric	17.40	1050	28.40
ST 2500	2500	7.2	15	steel breaker fabric	18.40	1250	37.30
ST 3150	3150	8.1	15	steel breaker fabric	22.00	1450	51.98
ST 3500	3500	8.6	15	steel breaker fabric	23.40	1450	57.70
ST 4000	4000	8.9	15	steel breaker fabric	23.90	1600	66.00



SIDERSIL®ST

SIDERSIL® SW-RE metal elevators

The core is made of an open-structure warp of metal cords which interweaves with the high elasticity weave; as a result these belts feature high tensile strength and low elongation.

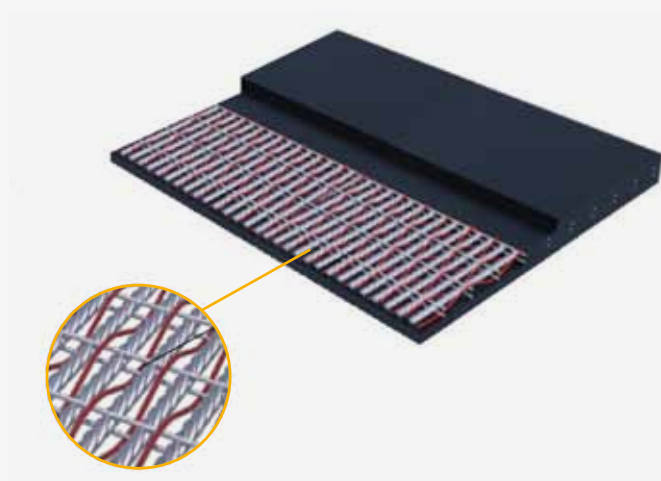
The weft is made of a double row of rigid offset cords, one above and one below the warp. The main advantage these cords offer is to

give the belt the transverse rigidity necessary for optimum conveyor performance as well as to make sure that the screws do not damage the belt or that the bolts do not come out. The maximum breaking strength is 2000 N/mm.

SIDERSIL® SW-RE belts are produced with molded edges.

BELT TYPE	BELT STRENGTH	MAX CORD DIAMETER	PITCH	TRASVERSAL REINGORCEMENT	CARCASS THICKNESS	MIN. PULLEY DIAMETER	CORD STRENGTH
	N/mm	mm	Kg/m ²		mm	cavi/m	mm
SW 350	350	2.00	8.3	ø 1.29 mm steel breaker fabric	4.6	600	3.25
SW 500	500	2.00	5.8	ø 1.29 mm steel breaker fabric	4.6	700	3.25
SW 630	630	2.00	4.6	ø 1.29 mm steel breaker fabric	4.6	800	3.25
SW 800	800	2.85	6.7	ø 1.29 mm steel breaker fabric	5.4	950	5.90
SW 1000	1000	2.85	5.4	ø 1.29 mm steel breaker fabric	5.4	1050	5.90
SW 1250	1250	3.90	7.1	ø 1.29 mm steel breaker fabric	6.3	1050	10.10
SW 1400	1400	3.90	6.3	ø 1.29 mm steel breaker fabric	6.3	1250	10.10
SW 1600	1600	3.90	5.5	ø 1.29 mm steel breaker fabric	6.3	1450	10.10
SW 1800	1800	3.90	5.0	ø 1.29 mm steel breaker fabric	6.3	1450	10.10
SW 2000	2000	3.90	4.6	ø 1.29 mm steel breaker fabric	6.3	1600	10.10

Joint system for metal elevators



SIDERSIL® SW-RE



Covers

The compound is made by combining the rubber with various chemicals to give it the desired characteristics for its intended use.

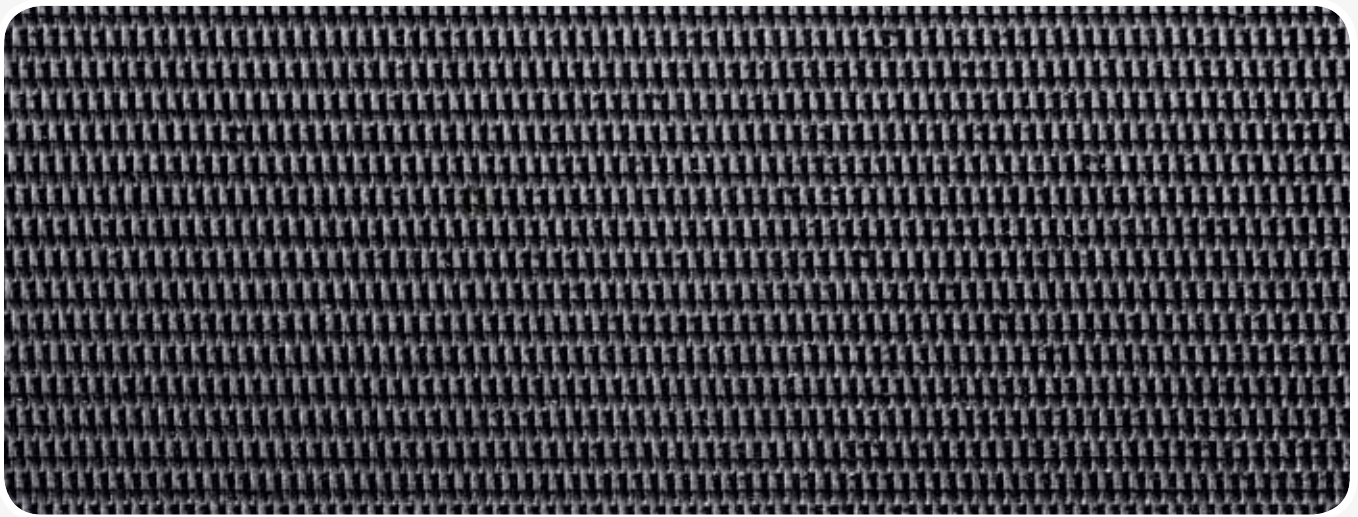
Type	Standard	Application	Tessile Strenght Min.	Ultimate Elongation Min.	Abrasion Max.	Basic Material	Hardness	Temp. Renge
			Mpa	%	mm ³		°SH	°C
General Purpose Belts								
P	MF/H-13	Suitable for bulk and lumpy materials under easy conditions.	10	300	250	SBR	60±5	-45 to +80
N	DIN 22102 Z	Abrasion resistant. Suitable for bulk and lumpy materials under normal working conditions.	17	400	150	SBR	60±5	-45 to +80
W	DIN 22102 W	Super wear resistant. Recommended for highly abrasive bulk materials. It can be operated at continuous low temperature of even -60°C. R type according to DIN 22102.	18	400	80	NR/BR	60±5	-60 to +80
Y	DIN 22102 Y	Abrasion resistant. Suitable for bulk and lumpy materials under normal conditions.	20	400	150	IR/SBR	60±5	-45 to +80
X	DIN 22102 X	High degree resistance against abrasion, cutting and gouging. Suitable for heavy, sharp, lumpy materials.	25	450	120	NR	60±5	-45 to +80
Heat Resistant Belts								
HR-130	ISO 4195	High resistance to abrasion and cutting. Maximum operating temperature 130°C.	18	450	120	NR/SBR	60±5	-20 to +130
HR-150	ISO 4195	Suitable for carrying hot loads continuously at temperature up to 150°C.	15	400	150	SBR	60±5	-20 to +150
HR-180	ISO 4195	Suitable for carrying hot loads continuously at temperature up to 180°C. And materials even with glowing hot points.	10	400	200	EPM	60±5	-20 to +180
HR-220	ISO 4195	Good resistance to abrasion and cutting. Maximum operating temperature 220°C.	14	395	150	EPDM	70±3	-20 to +220
HR-300	ISO 4195	Good resistance to abrasion and cutting. Maximum operating temperature 300°C, with peaks of conveyed material to 500°C.	13	380	155	EPDM	72±4	-20 to +300
Fire Resistant Belts								
K	DIN 22102 K	Recommended for applications where the risk of fire or explosion must be eliminated.	20	400	150	NR/BR	65±5	-20 to +100
S	DIN 22102 S	Suitable for conveying materials with fire and explosion danger.	20	400	150	NR/BR	65±5	-20 to +100
GS	DIN 22102 GS	Antistatic, oil and flame resistant.	20	400	250	NBR/CR	60±5	-20 to +100
Oil Resistant Belts								
MOR	DIN 22102 G	Moderately oil resistant. Suitable for materials consisting of animal fat or vegetable oil. Swelling in ASTM 3 oil (24 h, 100°C.) max. +65%	15	450	200	NBR/SBR	60±5	-30 to +80
OR	DIN 22102 G	High degree resistance against mineral oils. Suitable for materials consisting of mineral oil. Swelling in ASTM 3 oil (24 h, 100°C.) max +/- 10%	12	300	200	NBR	60±5	-20 to +100



Special belts

For processing of **marble, granite, stone-ware** and **aggregates** our product line includes the best belt for each type of machine. We offer a complete range of textile inserts. These can carry different loads and enable us to choose the best belt to avoid those uneven movements, jerks or jogs that often create imperfections in the appearance of the finished workpiece. The different impression on the cover, depending on their final use, guarantee maximum adhesion between workpiece and belt and ensure perfect grinding and polishing even in the most cutting-edge machines.

BELT TYPE	NUMBER OF PLIES	CARCASS THICKNESS	CARCASS WEIGHT	MINIMUM PULLEY DIAMETER			STANDARD COVERS	APPLICATION
	n°	mm	Kg/m ²	DRIVE mm	RETURN mm	SNUB mm		
FLEXIFER® 400/3 5+0 I.T.	3	5.0	13.5	315	250	200	5+0	CHAMFERING & CROSS-CUTTING MACHINE
FLEXIFER® 500/4 7+0 I.T.	4	7.5	19.5	500	400	315	7+0	CHAMFERING & CROSS-CUTTING MACHINE
GRIFLEX® 400/3 7+0	3	5.0	13.5	315	250	200	7+0	CROSS CUTTING MACHINES
SPECIAL LM 1000/4 2+0 I.T.	4	6.6	12.0	400	315	250	2+0	EDGE-POLISHING MACHINES
SPECIAL LM 1250/5 2+0 I.T.	5	8.0	13.5	500	400	315	2+0	EDGE-POLISHING MACHINES



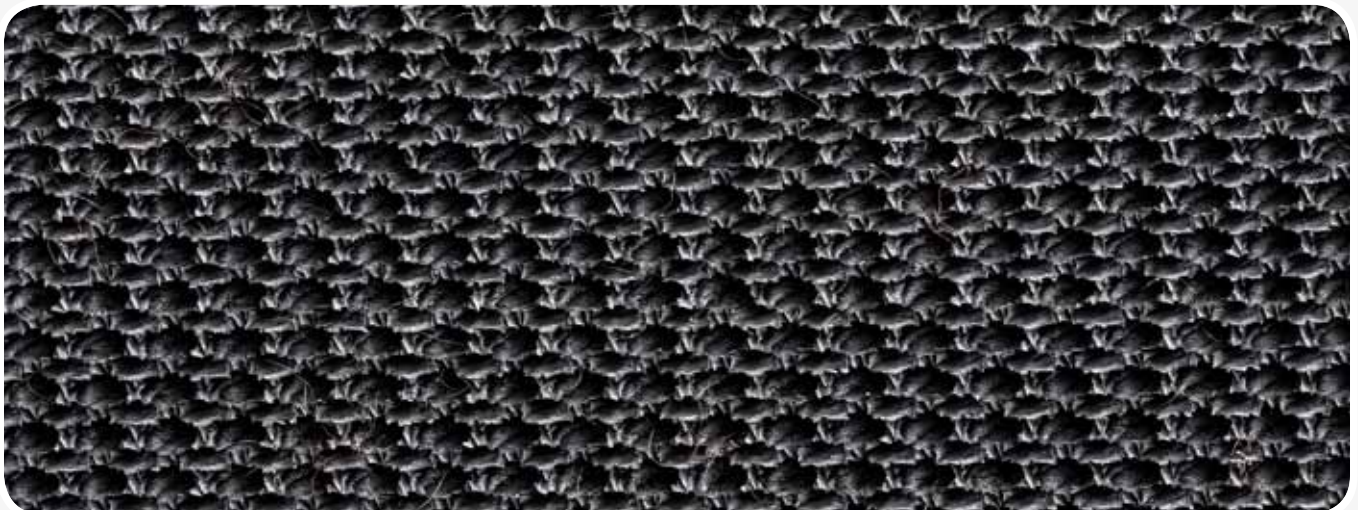
FLEXIFER® 400/3 5+0 I.T.



SPECIAL LM 1250/5 2+0 I.T.



FLEXIFER® 500/4 7+0 I.T.



GRIFLEX® 400/3 7+0







FLEXWALL[®]

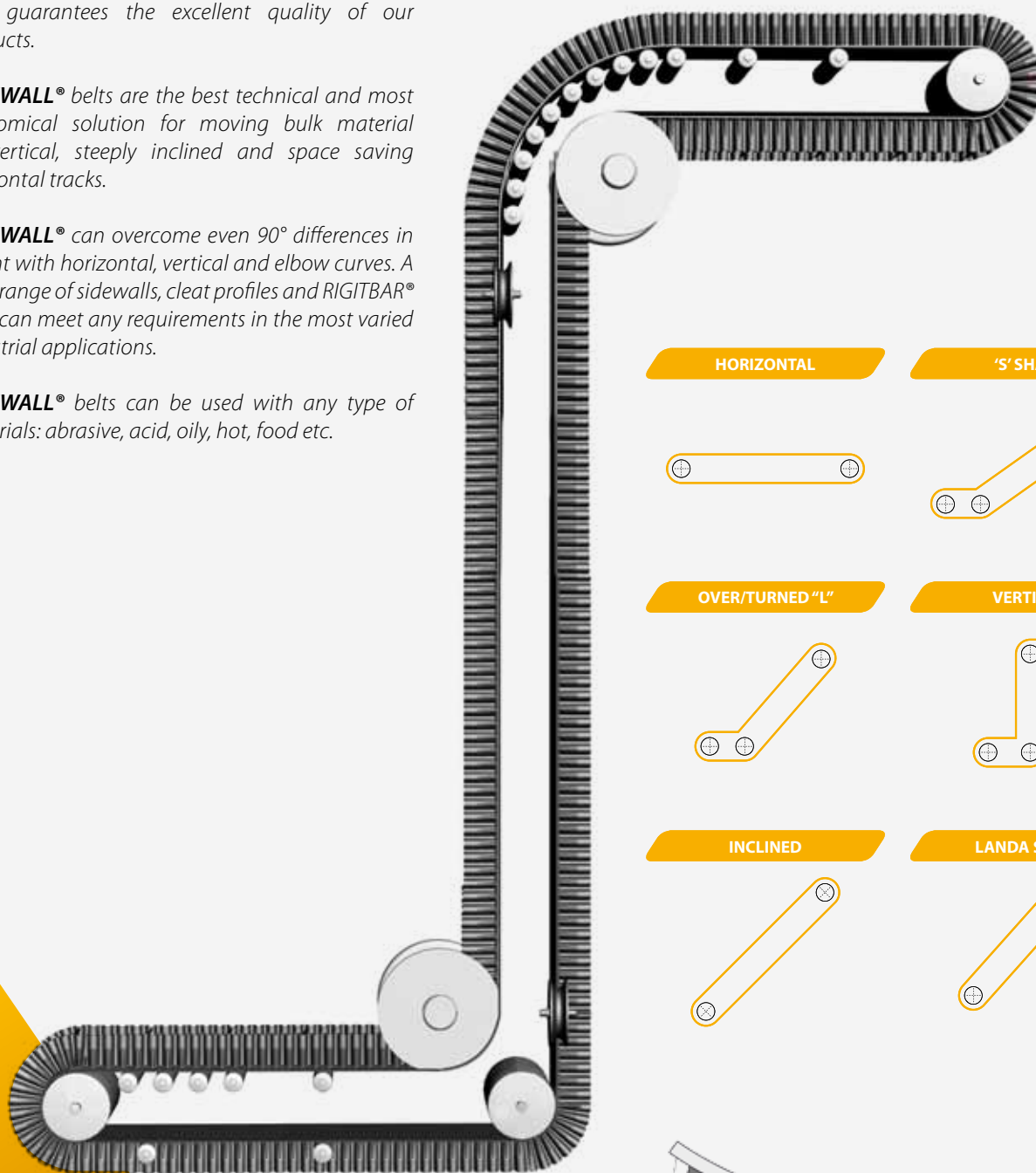
FLEXWALL®

FLEXWALL® belts are manufactured at our Marano Vicentino plant using a **hot vulcanizing process** that guarantees the excellent quality of our products.

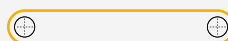
FLEXWALL® belts are the best technical and most economical solution for moving bulk material on vertical, steeply inclined and space saving horizontal tracks.

FLEXWALL® can overcome even 90° differences in height with horizontal, vertical and elbow curves. A wide range of sidewalls, cleat profiles and RIGITBAR® belts can meet any requirements in the most varied industrial applications.

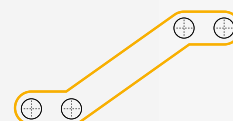
FLEXWALL® belts can be used with any type of materials: abrasive, acid, oily, hot, food etc.



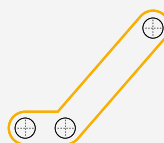
HORIZONTAL



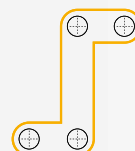
'S' SHAPE



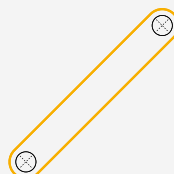
OVER/TURNED "L"



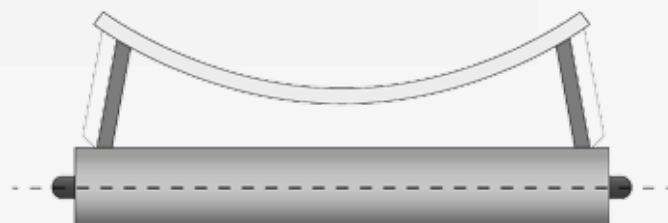
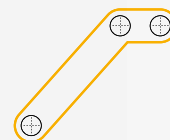
VERTICAL



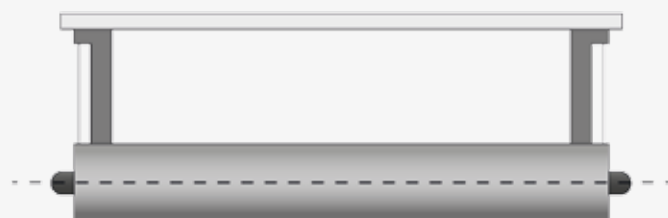
INCLINED



LANDA SHAPE



Wrong



Right



RIGITBAR® - Cross-rigid belts

RIGITBAR® belts are especially designed for being used with sidewalls and cleats. The belt carcass is designed to have a high transverse rigidity. The transverse rigidity supports the belt planarity on return runs.

The carcass consists of two or several wholly synthetic polyester-nylon plies (EP). The EP construction is impervious to moisture, has a low coefficient of elongation and a high tensile strength.




Two extra plies of special construction are also used to obtain the transverse rigidity. Depending on the requested transverse rigidity the plies can be made out of textile or metal.

XE: Belt with combined tensile and rigidity fabrics. Suitable for conveying middleweight material.

XE+1/XE+2: Belt with EP tensile fabrics and 1 or 2 transversely rigid fabric elements for medium-heavy duty applications.

XE-M+2: Belt with EP tensile fabrics and 2 transversely rigid metal cord elements. This belt is ideal for considerable ground elevation and on very large belts.

STX-M+2: Belt with tensile metal cords and 2 transversely rigid metal elements. This belt has a high tensile strength and is suitable for conveyors in considerable ground elevation.

	MODEL	TYPE	COVER THICKNESS mm	WEIGHT Kg/m ²	MINIMUM PULLEY DIAMETER mm
XE		250/2	2+2	9.40	200
		400/3	4+2	13.50	315
		500/3	4+2	13.75	400
		630/4	4+2	15.20	500
		800/5	4+2	16.85	630
XE+1/XE+2		400/3+2	4+2	12.10	315
		500/3+2	4+2	12.60	400
		630/4+2	4+2	14.40	500
		800/5+2	4+2	16.10	630
		1000/5+2	4+2	17.80	800
XE-M+2		1250/5+2	4+2	18.25	1000
		315/2+2	4+2	13.70	315
		400/3+2	4+2	14.50	315
		500/3+2	4+2	15.20	400
		630/4+2	4+2	16.70	500
		800/5+2	4+2	18.00	630
		1000/5+2	4+2	19.50	800
STX-M+2		1250/5+2	4+2	21.40	1000
		1600	8+8	GET MORE INFORMATION	1250
		2000	8+8		1250
		2500	8+8		1400
		3150	8+8		1400
		3500	8+8		1600
		4500	8+8		1600



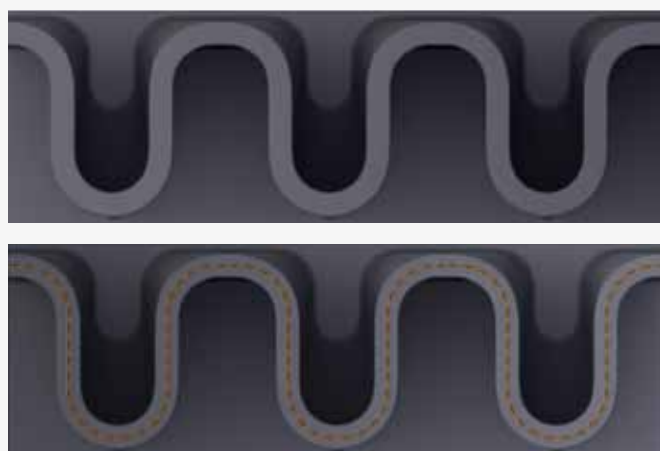
Sidewalls

Our sidewalls are made from a high quality compound. Hot vulcanizing onto the belt is excellent: the geometric shape of the base of the sidewall has optimum characteristics for hot application to the belt without loss of flexibility, ensuring sidewalls that can work constantly and for prolonged periods without breakage.

Also available in two versions:

- rubber (**BG**)
- rubber with fabric reinforcement (**BGT**)

TYPE	HEIGHT mm	BASE mm	WEIGHT kg/m	MIN. PUL. mm
BG 40	40	50	0.95	160
BG 50	50	50	1.15	170
BG 60	60	50	1.35	180
BG/BGT 80	80	50	1.50	200
BG/BGT 120	120	50	2.00	320
BG/BGT 160	160	50	2.60	400
BG/BGT 160	160	75	5.70	400
BG/BGT 200	200	75	6.60	500
BG/BGT 240	240	75	7.50	550
BG/BGT 300	300	75	9.90	600
BG/BGT 350	350	75	11.55	700
BG/BGT 400	400	75	13.20	900





Cleat profiles

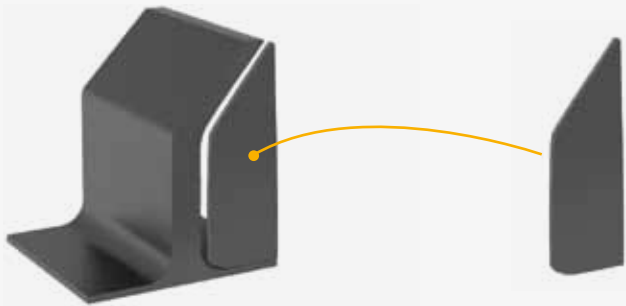
The cleat profiles are molded in a high quality rubber, with high elasticity on the support bases.

- Also available in two versions:
- rubber
 - rubber with fabric reinforcement

T		TYPE			T40	T55	T75	T110	T140
		HEIGHT (mm)			40	55	75	110	140
		BASE (mm)			70	80	100	110	140
		WEIGHT (kg/m)			0.70	1.35	1.55	3.20	4.00
		MIN. PUL. (mm)			150	150	200	300	350
TX		TYPE	TX35	TX55	TX75	TX110	TX140	TX160	TX180
		HEIGHT (mm)	35	55	75	110	140	160	180
		BASE (mm)	55	90	90	110	140	160	180
		WEIGHT (kg/m)	0.70	1.35	1.55	3.20	4.00	4.30	5.50
		MIN. PUL. (mm)	150	150	200	300	350	370	380
TC		TYPE	TC75	TC110	TC140	TC180	TC220	TC240	TC260
		HEIGHT (mm)	75	110	140	180	220	240	260
		BASE (mm)	90	110	140	160	160	170	170
		WEIGHT (kg/m)	2.10	3.60	5.05	8.40	9.10	11.20	13.00
		MIN. PUL. (mm)	200	350	370	450	500	550	600
TCS		TYPE					TCS280	TCS330	TCS380
		HEIGHT (mm)					280	330	380
		BASE (mm)					230	230	230
		WEIGHT (kg/m)					22.80	24.50	26.50
		MIN. PUL. (mm)					700	700	700
TCSD		TYPE					TCSD280	TCSD330	TCSD380
		HEIGHT (mm)					280	330	380
		BASE (mm)					230	230	230
		WEIGHT (kg/m)					22.80	24.50	26.50
		MIN. PUL. (mm)					700	700	700

Accessories

Sidewalls are mounted in order to prevent small size materials from penetrating into the slots between edges and cleat profiles.





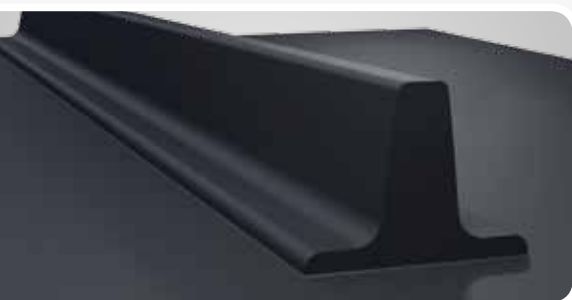
Other Products



Special application

We are equipped for **hot vulcanization** application of rubber cleats on belts with widths up to 4.000 mm. Cleat length and pitch are chosen, after selecting the shape of the profile among the possible types according to customer requirements. This gives maximum flexibility in meeting specific carrying capacity requirements and plant characteristics. Thanks to the versatility of our plant we can vulcanize single, paired and offset cleats on belts made of anti-abrasive, oil-proof or heat-resistant compounds, while maintaining all the undeniable advantages that come from hot vulcanization.

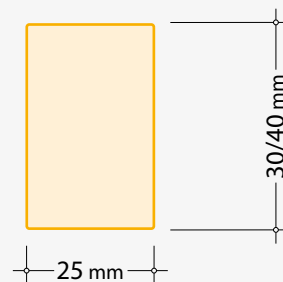
Trasversal profile



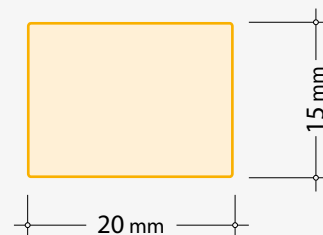
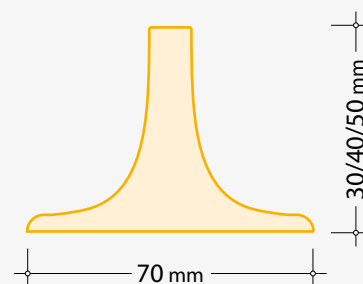
**PROFILE
TYPE TA**



**PROFILE
TYPE TB**

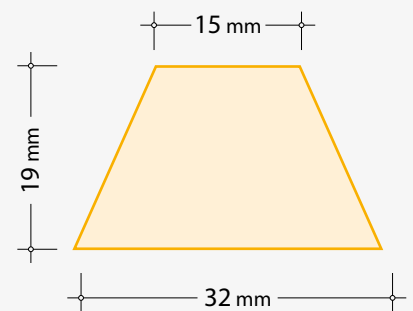
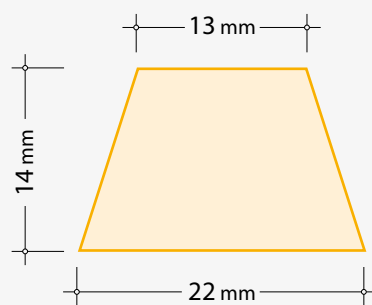
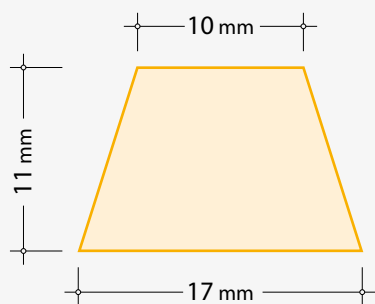
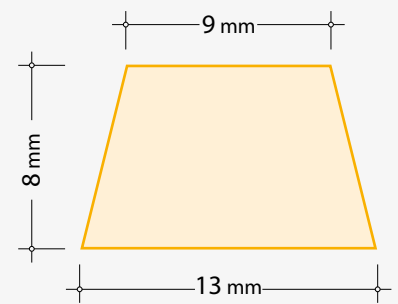
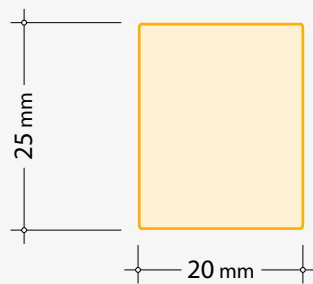
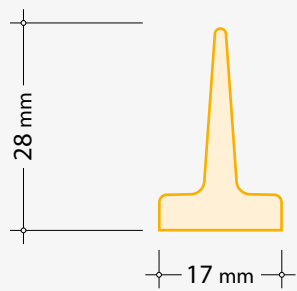


**PROFILE
TYPE TD**





Longitudinal profile



Rubber sheets

Our product range includes a series of rubber sheets designed to ensure maximum wear, tear and shock resistance using compounds that withstand oils, greases, solvents, acids and high temperatures.

Some of these types are normally used as **SKIRT BOARD RUBBER** on conveyor belts.

Many of these sheets can be supplied with CS adhesive underlays for exceptional adhesion to metal surfaces or rubber to rubber.

Standard dimension: 1.500 x 10.000 mm, 1.500 x 25.000 mm, 2.000 x 10.000 mm, 2.000 x 20.000 mm

All sheets can be cut down to requested sizes.

NOMABORD®: Rubber with good wear, tear and shock resistance. Excellent for use as skirt board rubber.

TEXTILE STRENGTH	BREAKING ELONGATION	HARDNESS	DENSITY	ABRASION	THICKNESS	COLORS
Mpa	%	Shore A	Kg/dm ³	mm ³	mm	
14	300	60 ± 5	1.25	200	2 - 3 - 4 - 5 - 6 - 8 - 10 - 15 - 20	BLACK

SABBIATEN®: Rubber with exceptional abrasion and tear resistance, particularly suited to metal surface cover in case of even large-size sharp-edged and abrasive falling materials.

TEXTILE STRENGTH	BREAKING ELONGATION	HARDNESS	DENSITY	ABRASION	THICKNESS	COLORS
Mpa	%	Shore A	Kg/dm ³	mm ³	mm	
17	470	60 ± 5	1.13	110	3 - 5 - 6 - 8 - 10 - 12 - 15 - 20 - 25 - 30	BLACK

CREPBORD®: Highly elastic and soft rubber with low specific weight. Good abrasion resistance. Excellent for use as skirt board rubber.

TEXTILE STRENGTH	BREAKING ELONGATION	HARDNESS	DENSITY	ABRASION	THICKNESS	COLORS
Mpa	%	Shore A	Kg/dm ³	mm ³	mm	
18	600	40 ± 5	1.08	110	3 - 6 - 8 - 10 - 12 - 15 - 20 - 25	BEIGE - RED

SUPERCREPBORD®: Highly elastic and soft rubber. Used for the liming cyclones, curves and where maximum abrasion resistance by small-size materials is required.

TEXTILE STRENGTH	BREAKING ELONGATION	HARDNESS	DENSITY	ABRASION	THICKNESS	COLORS
Mpa	%	Shore A	Kg/dm ³	mm ³	mm	
21	740	35 ± 5	0.98	60	3 - 7 - 10 - 15	RED

OLEOBORD®: Rubber with excellent resistance to mineral, vegetal and animal oils and greases and to aliphatic solvents. Excellent for use as skirt board rubber.

TEXTILE STRENGTH	BREAKING ELONGATION	HARDNESS	DENSITY	ABRASION	THICKNESS	COLORS
Mpa	%	Shore A	Kg/dm ³	mm ³	mm	
12	350	60 ± 5	1.25	200	2 - 3 - 4 - 5 - 6 - 8 - 10 - 12 - 15 - 20	BLACK

PIROBORD®: Heat-resistant rubber. Maximum operating temperature is 150°C. Also has good resistance to highly concentrated acids. Excellent for use as skirt board rubber.

TEXTILE STRENGTH	BREAKING ELONGATION	HARDNESS	DENSITY	ABRASION	THICKNESS	COLORS
Mpa	%	Shore A	Kg/dm ³	mm ³	mm	
17	450	65 ± 5	1.15	150	2 - 4 - 6 - 8 - 10 - 15 - 20	BLACK

DUST-PROOF: Highly elastic, soft, low specific gravity rubber. Excellent resistance to abrasion. Excellent to eliminate dust and dust build-up on any type of machine.

TEXTILE STRENGTH	BREAKING ELONGATION	HARDNESS	DENSITY	ABRASION	THICKNESS	COLORS
Mpa	%	Shore A	Kg/dm ³	mm ³	mm	
18	600	40 ± 5	1.00	75	2	BLACK

Scrapers – Cleaners

The operating performance of a belt conveyor system depends on its degree of cleanliness. Cleanliness is achieved by installing appropriately hard and rigid scrapers that can adapt to belt unevenness to ensure proper cleaning.

TERGIBORD®: Scraper made of a single layer of high hardness rubber.

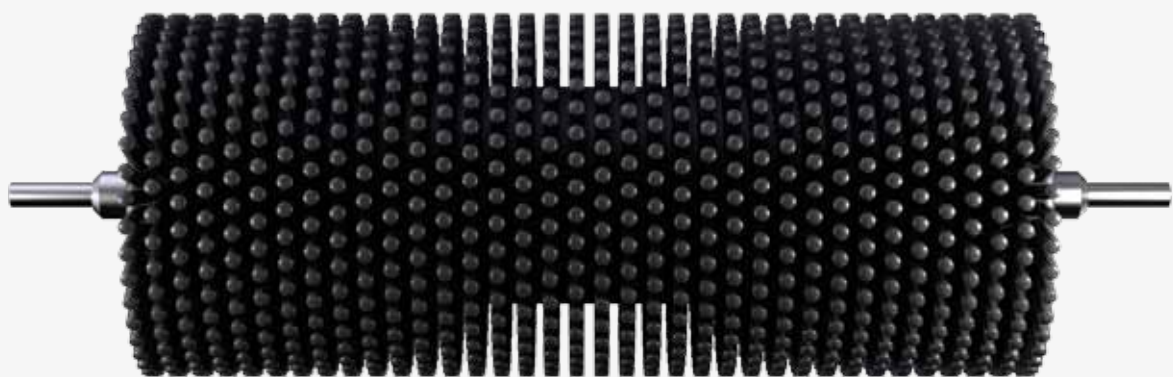
TEXTILE STRENGHT	BREAKING ELONGATION	HARDNESS	DENSITY	ABRASION	THICKNESS	COLORS
Mpa	%	Shore A	Kg/dm³	mm³	mm	
16	300	70 ± 5	1.20	150	10 - 15 - 20 - 25 - 30	BLACK

TERGIBORD/S®: Scraper made of three layers of rubber. The two outer layers are harder while the inner layer is softer for greater elasticity and capacity to adapt to the belt surface.

TEXTILE STRENGHT	BREAKING ELONGATION	HARDNESS	DENSITY	ABRASION	THICKNESS	COLORS
Mpa	%	Shore A	Kg/dm³	mm³	mm	
17	500	65/40/65 ± 5	1.13	120	10 - 15 - 20 - 25 - 30	BLACK RED/BLACK

Rotary belt cleaning brush

The rotary rubber brush can be used on any type of belt. When it rotates opposite to the direction of the belt it is excellent at removing fine or dusty material or material that sticks easily to the belt.



LINERFLEX® - Drum lagging

LINERFLEX® is the ideal solution to reduce slippage between belt and drum.

In addition to preventing slippage it increases belt stability, evacuates dirt and protects the drum against wear and corrosion.

The quality of the rubber ensures excellent abrasion and shear resistance.

Sheet dimensions: 1.500 x 10.000 mm and 2.000 x 10.000 mm

LINERFLEX® are supplied with adhesive layer CS.

TEXTILE STRENGTH	BREAKING ELONGATION	HARDNESS	DENSITY	ABRASION	THICKNESS	COLORS
Mpa	%	Shore A	Kg/dm ³	mm ³	mm	
17	490	60 ± 5	1.13	110	8 - 10 - 12 - 15 - 20	BLACK

LINERFLEX® MINI DIAMOND

Diamond dimensions: 18 x 35 mm



LINERFLEX® BIG DIAMOND

Diamond dimensions: 35 x 60 mm



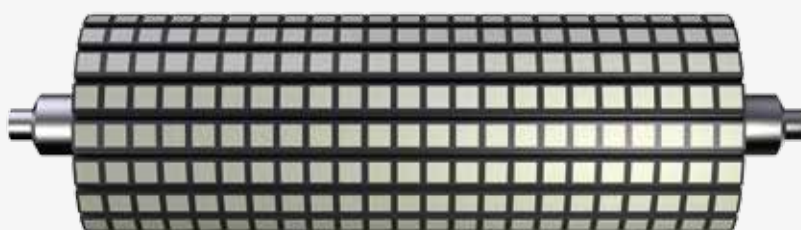
LINERFLEX® CERAMIC

Sheet dimensions: 385 x 10.000 mm

Thickness: 12 mm

Ceramic rubber, in heavy-duty working conditions and when subject to high loads, avoids excess wear caused by slippage in the presence of dust and mud.

20 x 20 mm embossed vulcanized ceramic Al₂O₃ elements are embedded in the LINERFLEX® rubber, increasing its strength characteristics

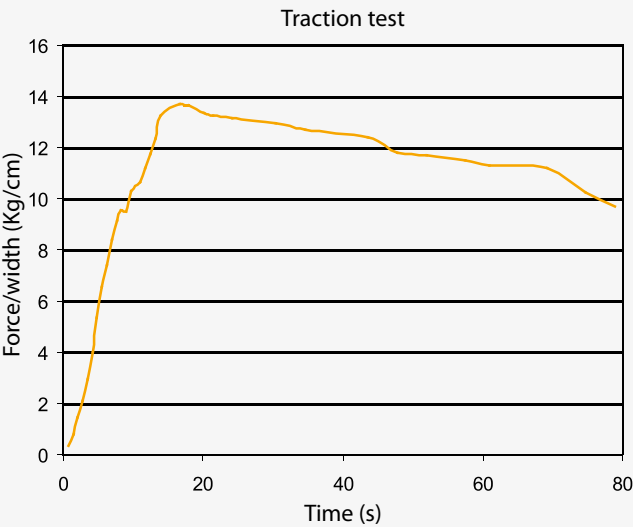


TETAKO® - Adhesive

The two-part **TETAKO®** adhesive is the ideal, safe and fast solution to join metal and textile conveyor belts, repair plies and covers on any type of belt and lag drums with both rubber and ceramic.

The **TETAKO®** adhesive can also be used in any situation where it is necessary to bond metal surfaces with rubber, rubber with fabric, rubber with rubber and fabric with fabric.

By simply mixing the pack of glue with the hardener, you obtain a product that is ready for immediate use and it is therefore possible to intervene immediately and prevent downtimes and production losses.



EQUIPMENT

TENSILE TESTING MACHINE TUPE T5002
J.J. LLOYD Instrument Limited
Warsash, Southampton, England



FORCE	TIME	FORCE/WIDTH
Newton	Sec	Kg/cm
6.444	0.69	0.328644
15.340	1.38	0.782340
28.050	2.08	1.430550
41.140	2.77	2.098140
58.010	3.46	2.958510
78.759	4.15	4.016709
104.790	4.84	5.344290
128.500	5.54	6.553500
145.460	6.23	7.418460
165.080	6.92	8.419080
179.130	7.61	9.135630
186.820	8.30	9.527820
185.860	9.00	9.478860
202.220	9.69	10.31322
208.980	11.07	10.65798
219.980	11.76	11.21898
230.560	12.46	11.75856
242.230	13.15	12.35373
259.780	13.84	13.24878
268.240	16.61	13.68024
268.120	17.30	13.67412
268.010	17.99	13.66851
261.340	20.07	13.32834
259.670	21.45	13.24317
257.890	24.22	13.15239
253.760	30.45	12.94176
248.980	34.60	12.69798
243.430	43.60	12.41493
231.670	47.75	11.81517
229.600	51.90	11.70960
225.790	57.44	11.51529
221.230	60.90	11.28273
219.650	69.20	11.20215
201.400	74.74	10.27140
189.870	78.89	9.68337

Repair patches

We can supply a set of rectangular and diamond patches, made entirely out of rubber or with a built-in textile reinforcement and **CS** adhesive underlay, to make cold repairs and joints on textile and metal conveyor belts.

DIAMOND PATCHES

Dimensions: 135 x 160 mm
200 x 260 mm
270 x 360 mm
450 x 470 mm



RECTANGULAR PATCHES

Dimensions: 100 x 10.000 mm
150 x 10.000 mm
220 x 10.000 mm
300 x 10.000 mm



Clips

Stainless steel 6-spike clips are used to make lengthwise repairs on conveyor belts. Coming in 100-piece boxes and in various sizes depending on the thickness of the belt to repair.

TYPE	HEIGHT OF TIPS
	mm
6 spikes n°4	16
6 spikes n°5	20
6 spikes n°6	29
6 spikes n°7	38



Vulcanizing presses

We manufacture vulcanizing presses for textile and metal conveyor belts with maximum belt widths up to 3.200 mm. The heating plates and pressure crossbeams we use are always made of high quality aluminum. This ensures a long working life as well as excellent tensile and bending strength to our presses. They are available, on request in rectangular or diamond 16,42°, 22° shapes. Our vulcanizing heating plates can be equipped with air or water cooling systems for rapid cool-down. Our presses are equipped with manual or automatic electric boards. Maximum specific surface pressure is approximately 140 N/cm².



NOTE

NOTE



G.M.B.
TECNOLOGIA DELLA GOMMA
RUBBER TECHNOLOGY

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