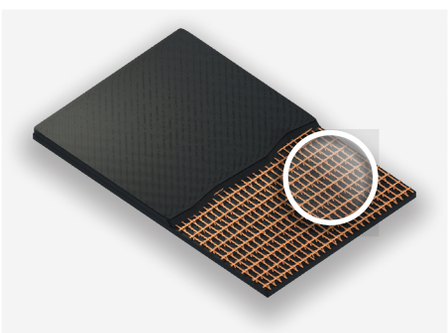
Ferroflex

FENNER DUNLOP
CONVEYOR BELTING

Exceptional wear resistance / *Low elongation* / *Suited for elevator belting*

Steel fabric reinforced belting

Fenner Dunlop Ferroflex steel fabric reinforced belting is specifically designed for demanding service conditions such as carrying heavy bulk materials, particularly where long distances and/or high-impact, ripping and tearing are involved.
Ferroflex has a tension layer composed of longitudinal steel cords through which the power is transmitted. The transverse steel cords reinforce the belt and protect against impact and tears. This well-proven carcass construction has particularly good 'low elongation' characteristics.



- Tensile strengths available from 500 N/mm up to 2000 N/mm
- Wide range of widths available, from 500 up to 2200mm
- Available in a range of cover compounds from -60°C up to +400°C including fire resistant, oil, extreme cold and abrasion resistant
- Low elongation 0.25% at 10% of the normal tensile strength
- High impact and tear resistance due to dense steel cord carcass
- Small pulley diameters
- Super-strong carcass ideal for elevator belting

Carcass construction

There are two Ferroflex constructions available. These are referred to as 'FIW' and 'FSW'. The FIW carcass has a single transversal layer of steel cords on top of the longitudinal steel cords. The FSW carcass has two transversal layers of steel cords situated on both sides of the longitudinal steel cords. Both constructions are available in many Fenner Dunlop cover qualities.

Application areas

Ferroflex provides top-class reliability and durability across a wide range of industries, including cement, quarries, wood, paper and pulp, recycling, steel and transshipment.
The FSW reinforced belt can be supplied with cable-free zones to make the installation of buckets and fasteners easier and to create a dynamically stronger belt. Combined with its low-elongation characteristics and highly heat-resistant Deltahete rubber covers, this means that it is ideally suited as an elevator belt for conveying hot materials.

Unrivalled technical support and guidance

When you buy from Fenner Dunlop, you get more than just quality conveyor belts because we have one of the largest, most experienced and highly trained teams of conveyor belt specialists and application engineers in the industry.
Fenner Dunlop provides an unrivalled level of customer service — visiting our customers on-site and providing advice, guidance and practical support, including:

- Belt calculation services
- Technical training (on-site and Fenner Dunlop-based)
- Splice training
- Troubleshooting and problem-solving
- In-house research, testing and development
- After-sales support

Learn more about rubber compounds

Amended version. August 2026

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Technical information

Belt type	Carcass thickness [mm]	Carcass weight [kg/m²]	Pulley diameters *			Min. width ** [mm]	Max. belt width [mm] for satisfactory load support with material density of t/m³ : **			
			A [mm]	B [mm]	C [mm]		< 0.75	0.75 - 1.5	1.5 - 2.5	2.5 - 3.2
F 500 IW	3.2	5.8	500	400	315	500	1600	1400	1200	1000
F 500 SW	4.7	7.7	500	400	315	800	2200	2000	1800	1600
F 630 IW	3.2	6.2	500	400	315	500	1600	1400	1200	1000
F 630 SW	4.7	8.2	500	400	315	800	2200	2000	1800	1600
F 800 IW	4.5	8.8	630	500	400	650	2200	2000	2000	1800
F 800 SW	5.4	9.8	630	500	400	800	2200	2200	1800	1600
F 1000 IW	4.5	9.5	630	500	400	650	2200	2000	1800	1600
F 1000 SW	5.4	10.6	630	500	400	800	2200	2200	2000	1800
F 1250 IW	6.0	12.5	800	630	400	800	2200	2200	2200	2200
F 1250 SW	7.1	13.7	800	630	400	1000	2200	2200	2200	2200
F 1400 IW	6.0	13.1	800	630	400	800	2200	2200	2200	2200
F 1400 SW	7.1	14.3	800	630	400	1000	2200	2200	2200	2200
F 1600 IW	6.0	13.8	800	630	400	800	2200	2200	2200	2200
F 1600 SW	7.1	15.1	800	630	400	1000	2200	2200	2200	2200
F 2000 SW	7.1	16.3	800	630	400	1000	2200	2200	2200	2200

* Diameter for belt-loads from 60% up to 100%. For lower loads a smaller diameter can also be suitable.

** The load support of a belt is a factor of the belt width, belt strength and bulk material density. The table indicates the limits for correct load support, based on three idlers of the same length set at 30°.

Cover grades properties

Fenner Dunlop Cover Quality	DIN quality	EN/ISO quality	Permissible temp. °C[1]			Base polymer	Technical Features
			Min. Ambient	Cont. Material	Peak Material		
Abrasion resistant							
AA			-30	80	100	SBR	Abrasion resistant for normal service conditions.
RA	Y		-30	80	10	SBR	Abrasion resistant for more severe service conditions.
RE	X	H	-40	80	90	NR	Excellent resistance to cuts, impact, abrasion and gouging resulting from large and heavy lump sizes.
RS	W	D	-30	80	90	NR/SBR	Impact and extra wear resistance for conveying highly abrasive materials of mixed lump sizes.
RES	X/W/Y	H/D	-40	80	90	NR	Superior resistance to cuts, impact, abrasion and gouging resulting for large and heavy lump sizes and/or fine highly abrasive materials of mixed lump sizes.
Heat resistant							
Betahete	T	T1	-20	160	180	SBR	Heat and wear resistant for high temperature materials.
Deltahete	T	T3	-20	200	400	EPM	Superior heat resistant for heavy duty service conditions, up to 400 °C for short time intervals.
Fire resistant							
BV	S	2B	-20	80	90	SBR	Highly fire resistant according to EN 12882 and EN ISO 340.[2]
Oil and fat resistant							
ROM	G		-20	80	90	SBR/NBR	Oil and fat resistant for most products with animal and vegetable oils and fats.[3]
ROS	G		-20	80	120	NBR	Oil and fat resistant for products containing minerals oils.

[1] The minimum (min) temperatures specified in this document refer to the ambient temperature of the surrounding area. The continious (cont.) and peak temperatures relate to the material that is to be transported on a conveyor belt. For elevator belts other values apply.
[2] Fire retardant with and without covers.
[3] In some cases (with products containing high concentrations of animal and vegetable oils) ROS should be selected.

Other cover grade qualities for special applications are available upon request.

Learn more about belt monitoring