PCB

Pro Conveyor Belt

✓ Long lasting ✓ Cut-heat-impact resistant

✓ Good for crowned pulleys and sharp curves

CATALOGUE

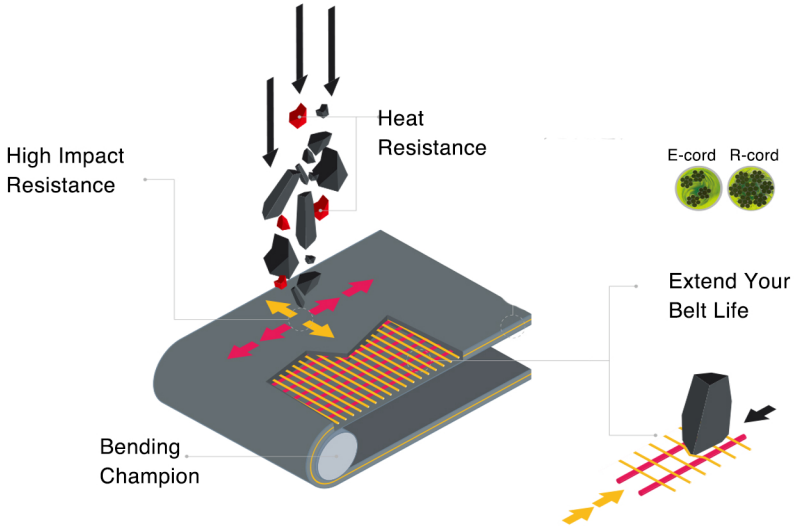
Impact Weft (IW) Belt

What is Fleximat® Impact Weft (IW) Conveyor Belt?

Fleximat® IW is a metallic carcass for conveyor belt reinforcement. It weaves Bekaert steel cords in longitudinal and transversal directions into one integrated woven steel cord fabric.
Fleximat® IW is part of a family of proven steel carcasses for heavy duty conveyor belts. If you contend with brutal impacts, severe cuts, or need high flexibility, Fleximat® can help.

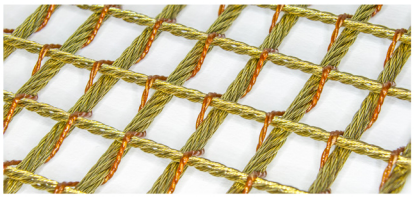
Long lasting and highly durable

Fleximat® IW fabrics are an excellent choice in quarrying, steel works, waste recycling, and mining. They help exceed a conveyor's performance requirements in heavy duty conditions.

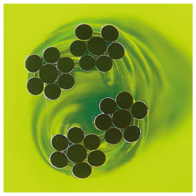


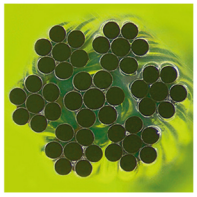
Engineered to be tough

1. Unique weaving technology
Steel cords are combined with RFL dipped binder yarn through a leno weaving pattern. This ensures that cables do not damage each other during operation.

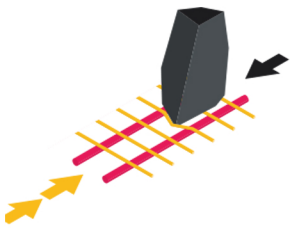


2. E-cords
Elongation cords, in short: "E-cords" (created by Bekaert) give the fabric a rubberized flexibility far greater than conventional steel cord belts.


E-cord

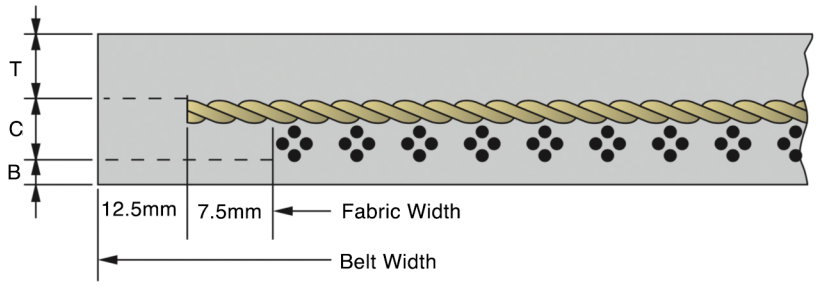

R-cord

3. Integrated steel breaker functionality
The integrated transversal cords allow for a smooth distribution of impact forces, and offer embedded protection against rips and cuts.



4. Premier adhesion and corrosion protection
Just like steel cords for tire reinforcement, Fleximat®'s steel cords are brass coated for excellent rubber adhesion and corrosion protection. The open cord construction helps the rubber penetrate deep into the heart of the cord.

Fleximat® Impact Weft (IW) Belt Structure



T: Top Cover Rubber B: Bottom Cover Rubber C: IW Carcass

Specification Impact Weft （With E-type Warp Cords）

1. Belt Range

	N/mm IW	300	500	630	800	1000	1200	1400	1600
2. Transverse	N/mm	90	90	90	125	125	175	175	175
3. Mass	Kg/m^2	1.85	2.45	2.95	4.15	5.00	6.35	7.05	7.90
4. Thickness	mm	3.2	3.2	3.2	4.5	4.50	6.00	6.00	6.00
5. Warp Cords									
➢ Diameter, mm		2.00	2.00	2.00	2.85	2.85	3.90	3.90	3.90
➢ Breaking Strength, N		3075	3075	3075	5600	5600	9600	9600	9600
➢ Elongation, %		5	5	5	5	5	5	5	5
➢ Pitch, mm		8.33	5.81	4.63	6.67	5.38	7.04	6.25	5.50
➢ Density, Cords/m		120	172	216	150	186	142	160	182
5. Weft Cords									
➢ Diameter, mm		1.52	1.52	1.52	2.10	2.10	2.40	2.40	2.40
➢ Breaking Strength, N		1720	1720	1720	2900	2900	3775	3775	3775
➢ Elongation, %		7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
➢ Pitch, mm		17.5	17.5	17.5	20.0	20.0	20.0	20.0	20.0
➢ Density, Cords/m		57	57	57	50	50	50	50	50

Characteristics of Cover Rubber

Cover Grade	Tensile Strength, Mpa	Elongation, %	Abrasion, mm^3
A	17	400	70
M	24	450	125
W	18	400	90

PCB(Pro Conveyor Belt) conveyor belts for all kind of applications – up to the strongest and heaviest belts ever built. Please contact us for any assistance regarding your conveyor belt requirements.

PCB (Pro Conveyor Belt) has the most modern testing centre worldwide for developing conveyor belts. Extensive quality tests ensure the technological lead of PCB conveyor belts.
PCB production locations meet the ISO 9001 quality standard. The certification according to ISO 9001 comprises quality assurance during development, production, assembly and distribution. It therefore completely covers all of the areas which lead to higher standards of products and services.
PCB fabricates according to all the nationally relevant quality standards like DIN, SANS, MSHA, RMA, BS, AS, CSA, etc.

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