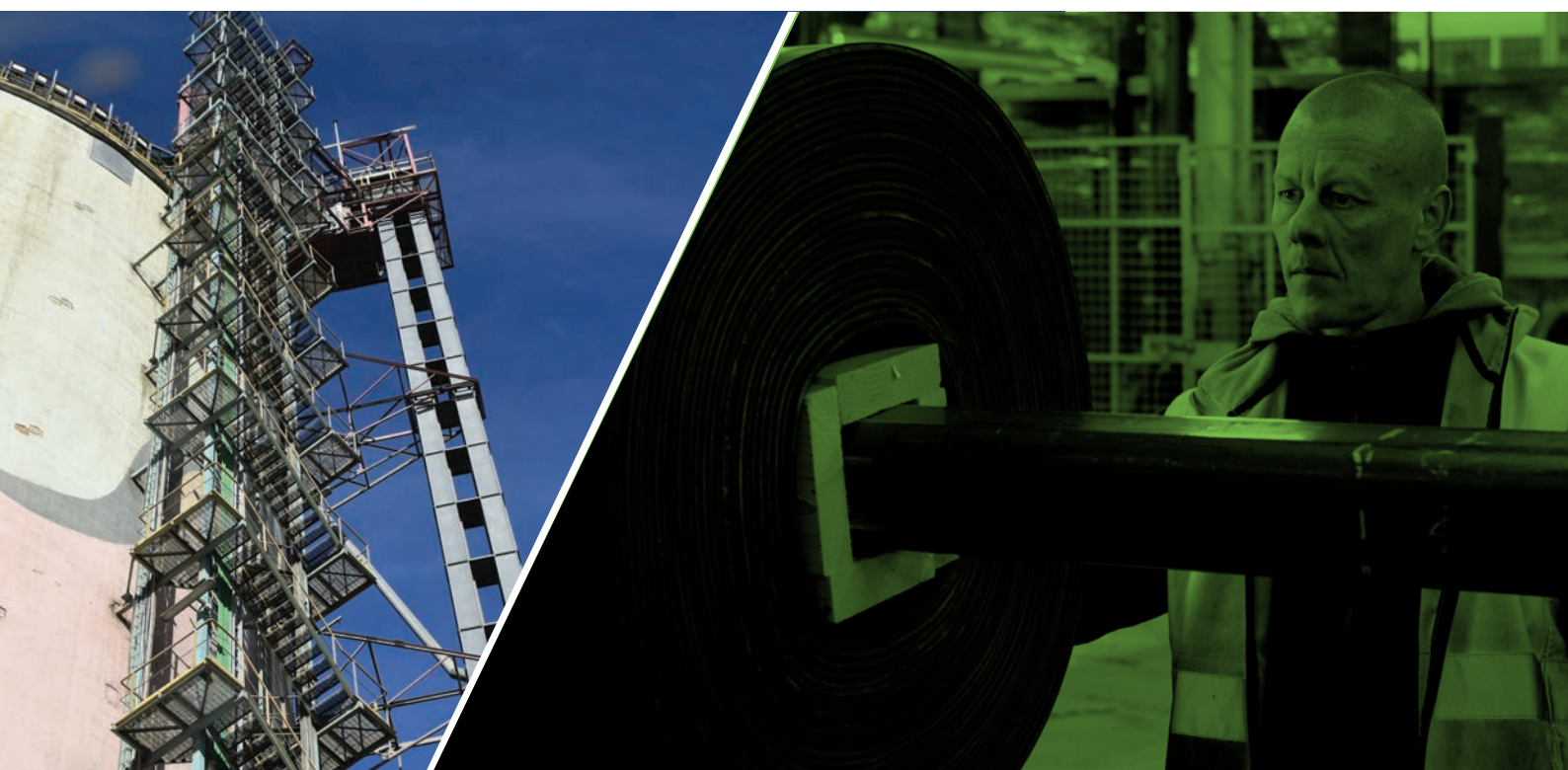


4B GROUP



ELEVATOR BELTING

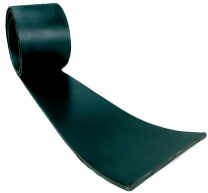
A Worldwide Manufacturer of
High Quality, Technologically Advanced
Material Handling & Electronic Components



CONTENTS



ELEVATOR BELTING

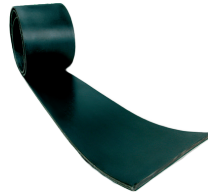


70°C

SBR
4B Standard SBR
Elevator Belt EP SBR -
Low stretch

*Products without oil or fat.
For very abrasive materials use
2+2mm covers.*

Page 4



100°C

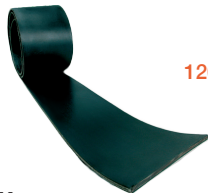
NBR
4B Standard NBR
Elevator Belt EP NBR -
Low stretch

Products with oil or fat.

Page 5

The materials used in the construction of the standard SBR and NBR belting have been designed to suit the particular demands of an elevator belt:

- Greater strength and bolt holding achieved with fewer plies
- Greater strength with less belt weight
- Increased belt strength with fewer plies permits the use of smaller pulley diameters
- No belt rot - the textile carcass is unaffected by moisture

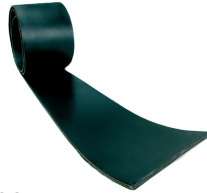


120°C

NBR+K
4B Flame Retardant, Anti Static
Elevator Belt EP FRAS,
Highly Oil Resistant Elevator
Belt ISO 340/284

*Potentially flammable products,
suitable for use in ATEX applications.*

Page 6

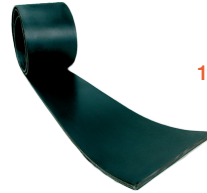


80°C

FRASOR
4B Flame Retardant, Anti Static
Elevator Belt EP-FRAS,
Moderately Oil Resistant
Elevator Belt ISO 340/284

*Potentially flammable products.
Suitable for ATEX applications.*

Page 7

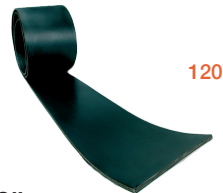


150°C

T150
4B High Heat Belt
EP-T150

Hot industrial products.

Page 8



120°C

HOT OIL
4B Hot Oil Flame Retardant Belt
PP HO120 Hot Oil
Flame Retardant ISO 340

*Hot, potentially flammable products.
Products containing hot oil and fat.
Suitable for ATEX applications.*

Page 9



100°C

FDA-NBR
4B White Food Quality Belt
EPG NBR-FDA

*Food applications. Suitable for
products containing oils and fats.*

Page 10

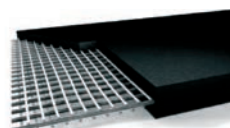


80°C

FDA-FRASOR
4B White Food Quality Belt
EPK FRASOR-FDA

*Food applications. Suitable for
products containing oils and fats.
Flame retardant. Suitable for ATEX
applications.*

Page 11



130°C

STEEL WEB
4B Steel Web Belt

*Tall high capacity elevators handling
hot industrial materials.*

Page 12



BC CLAMP
HEAVY DUTY BELT SPLICES

Ideal for Steel Web Belts.

Page 14



SUPERGRIP
HEAVY DUTY ELEVATOR BELT
FASTENERS

Page 15



GRIPWELL
LIGHT DUTY FASTENER

Page 16



VISE SPLICE
MECHANICAL ELEVATOR
BELT SPLICES

Page 17

BELT SELECTION GUIDE



<div> <div>QUALITY</div> <div>PROPERTY</div> </div>	<div> </div> <div>ANTI-STATIC</div>	<div> </div> <div>ANTI-ABRASIVE</div>	<div> </div> <div>OIL-RESISTANT</div>	<div> </div> <div>FLAME-RETARDANT</div>	<div> </div> <div>FOOD QUALITY</div>	<div> </div> <div>TEMPERATURE</div>	
						MIN.	MAX.
SBR	✓	✓	✗	✗	✗	-20°C	+70°C
NBR	✓	✓	✓	✗	✗	-25°C	+100°C
NBR+K	✓	✓	✓	✓	✗	-25°C	+120°C
FRASOR	✓	✓	✓	✓	✗	-25°C	+80°C
T150	✓	✓	✗	✗	✗	-20°C	+150°C
HOT OIL	✓	✓	✓	✗	✗	-20°C	+120°C
FDA NBR	✓	✓	✓	✗	✓	-20°C	+100°C
FDA FRASOR	✓	✓	✓	✓	✓	-20°C	+80°C
STEEL WEB	✓	✓	✗	✗	✗	-20°C	+130°C

4B - YOUR SPECIALIST SUPPLIER OF ELEVATOR BELTING

- Wide range to suit all applications
- Detailed technical support from our experienced team of engineers
- Extensive stock
- Belts supplied slit, cut to length and punched to your requirements or in full coils
- Same day dispatch from stock range if required

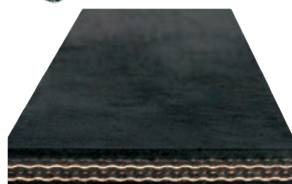


SBR - LOW STRETCH ELEVATOR BELT

LOW STRETCH ELEVATOR BELTING - ABRASION RESISTANT



Higher Strength Belts –
EP1000-EP2000 kN/m
available on request



4B elevator belting is of laminar construction, to give high impact resistance coupled with low stretch at working tension. The EP carcass comprises a woven textile construction having low stretch polyester fabric warp (along its length) and impact resistant polyamide fabric weft (across the width). The low stretch characteristics of the belt are achieved using the high strength textile fabric which is pre-tensioned during the manufacturing process. This process limits the maximum stretch in the belt, at working strength, to 1.5%.


Applications

- For fat and oil free products up to 70°C

Covers

- SBR Styrene Butadiene Rubber

Temperature Range

- -20°C to +70°C 

Carcass

- Polyester fabric warp and polyamide fabric weft plies (EP) separated by 0.3mm thick synthetic rubber laminates of SBR

Standard

- Manufactured to BS 490, DIN 22102 and DIN 22104 standard

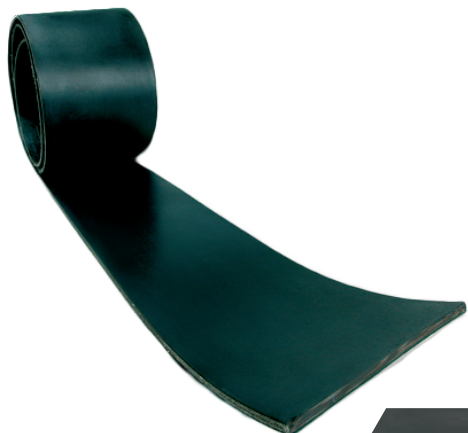
TYPE		EP500/3 1+1 SBR	EP630/4 1+1 SBR	EP630/4 2+2 SBR	EP800/5 2+2 SBR
Strength per ply	kN/m	160	160	160	160
Number of plies	-	3	4	4	5
Total Tensile Strength	kN/m	500	630	630	800
Maximum Working Tension (10:1 Safety Factor)	kN/m	50	63	63	80
Top & Bottom Cover Thickness	mm	1.0	1.0	2.0	2.0
Belt Thickness	mm	6.0	7.0	9.0	10.5
Weight	kg/m ²	7.8	9.0	11.4	13.3
Minimum Pulley Ø	mm	315	500	500	630



NBR - LOW STRETCH ELEVATOR BELT



LOW STRETCH ELEVATOR BELTING - OIL RESISTANT



NBR Nitrile provides good resistance to oil and fat. Suitable for products containing oils and fat up to 100°C.

- 100% Nitrile covers with Nitrile interplies
- Tested using ASTM3 / IRM 903 Reference Oils


Applications

- For products containing oils and fats up to 100°C

Covers

- NBR 100% Nitrile Butadiene Synthetic Rubber

Temperature Range

- -25°C to +100°C 

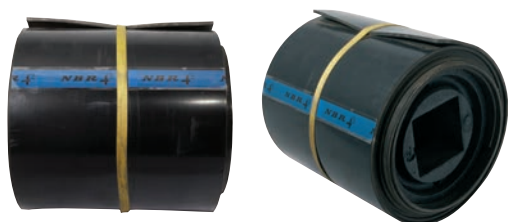
Carcass

- Polyester fabric warp and polyamide fabric weft plies (EP) separated by 0.3mm thick oil resistant synthetic rubber laminates

Standard

- Manufactured to BS 490, DIN 22102 and DIN 22104 standard

TYPE		EP500/3 1+1 NBR	EP630/4 1.5+1.5 NBR	EP800/4 2+2 NBR	EP1000/5 2+2 NBR	EP1250/5 2+2 NBR	EP1600/5 2+2 NBR
Strength per ply	kN/m	160	160	200	200	250	315
Number of plies	-	3	4	4	5	5	5
Total Tensile Strength	kN/m	500	630	800	1000	1250	1600
Maximum Working Tension (10:1 Safety Factor)	kN/m	50	63	80	100	125	160
Top & Bottom Cover Thickness	mm	1.0	1.5	2.0	2.0	2.0	2.0
Belt Thickness	mm	6.0	8.0	9.5	11.0	12.5	13.5
Weight	kg/m ²	7.6	10.2	12.0	13.9	15.6	17.5
Minimum Pulley Ø	mm	315	500	500	800	800	1000

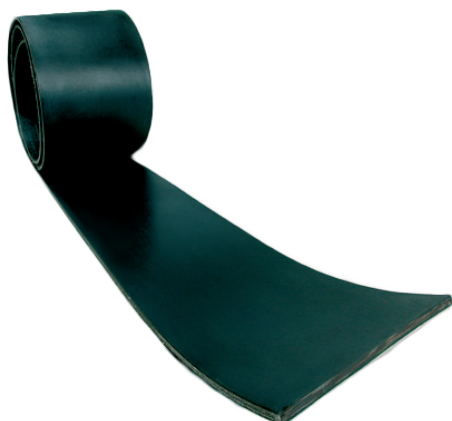


NBR Quality Information
 ASTM #1 = 1RM 901
 ASTM #3 = 1RM 903
 Test: 70hrs @ 100°C
 +/- 10% ΔV
 + 20% ΔV (max)



NBR+K - ISO 340/284

ISO 340/284 NBR+K - FLAME RETARDANT, ANTI STATIC AND HIGHLY OIL RESISTANT BELT



Suitable for use in ATEX applications.

Recommended for use in equipment / installations where there is a risk of fire or explosion.


Applications

- Suitable for handling products with more aggressive oil content such as rape seed

Covers

- NBR Nitrile Synthetic Rubber

Temperature Range

- -25°C to +120°C 

Carcass

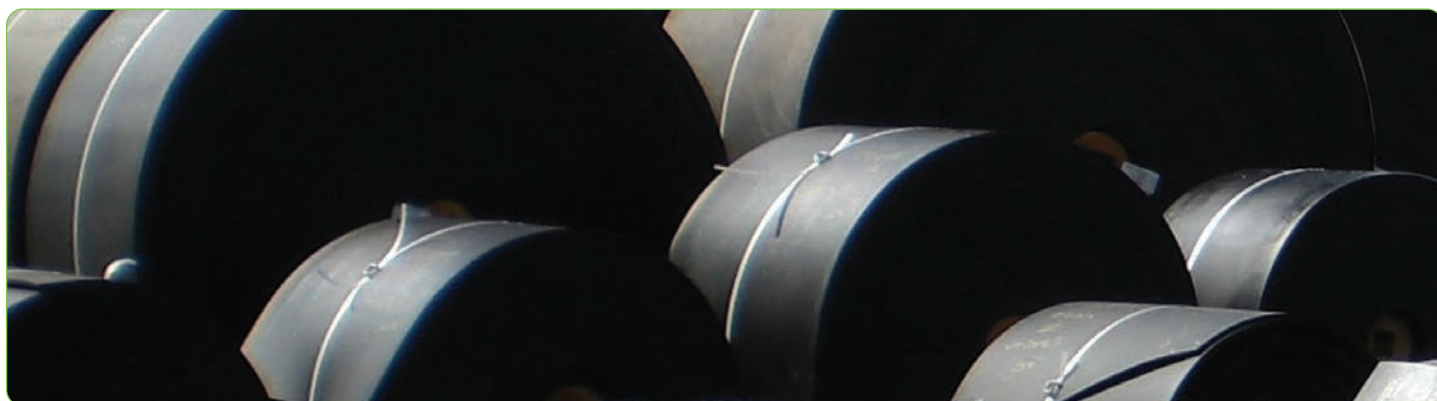
- Polyester fabric warp and polyamide fabric weft plies (EP) separated by 0.3mm thick synthetic rubber layers

Standard

- Flame Retardant ISO 340/ EN20340 (DIN 20340)
- Anti Static ISO 284/EN20284 (DIN 20284)
- Manufactured to BS490 DIN 22102 and DIN 22104 standard



TYPE		EP400	EP500	EP630	EP800	EP1000	EP1250
Number of plies	-	3	3	3	4	4	5
Total Tensile Strength	kN/m	400	500	630	800	1000	1250
Maximum Working Tension (10:1 Safety Factor)	kN/m	40	50	63	80	100	125
Top & Bottom Cover Thickness	mm	3+1	3+1	3+1	3+1.5	3+1.5	3+1.5
Belt Thickness	mm	7.0	7.5	8.0	10.0	11.0	12.5
Weight	kg/m ²	10.5	10.6	11.6	13.8	14.9	17.4
Minimum Pulley Ø	mm	315	315	400	500	630	800



Free Technical Support and Engineering Design Service - contact 4B or visit: www.go4b.com

FRASOR - ISO 340/284



ISO 340/284 FRASOR - FLAME RETARDANT, ANTI STATIC AND OIL RESISTANT BELT



Suitable for use in ATEX applications.

Recommended for use in equipment / installations where there is a risk of fire or explosion. Suitable for handling cereals and products with moderate levels of oil, such as soya.

Applications

- Moderate resistance to vegetable and animal oil

Covers

- Moderately Oil Resistant and Flame Retardant Rubber

Temperature Range

- -25°C to +80°C



Carcass

- Polyester fabric warp and polyamide fabric weft plies (EP) separated by 0.3mm thick synthetic rubber laminates

Standard

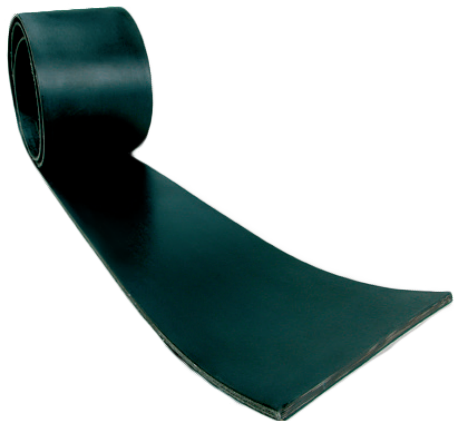
- Flame retardant ISO 340/ EN20340 (DIN 20340)
- Anti-static ISO 284/EN20284 (DIN 20284)
- Manufactured to BS490 DIN 22102 and DIN 22104 standard

TYPE		EP315	EP400	EP500	EP630	EP800	EP1000	EP1250	EP1600
Number of plies	-	2	3	3	3	4	4	5	5
Total Tensile Strength	kN/m	315	400	500	630	800	1000	1250	1600
Maximum Working Tension (10:1 Safety Factor)	kN/m	32	40	50	63	80	100	125	160
Top & Bottom Cover Thickness	mm	3+1	3+1	3+1	3+1	3+1.5	3+1.5	3+1.5	3+1.5
Belt Thickness	mm	6.2	7.0	7.5	8.0	10.0	11.0	12.5	14.0
Weight	kg/m ²	6.5	9.1	9.9	10.4	13.0	14.1	16.6	18.5
Minimum Pulley Ø	mm	250	315	315	400	500	630	800	1000



T150 - HIGH HEAT BELT

HIGH HEAT BELT



Suitable for applications in elevators handling products of up to 150°C and short peaks of 180°C.

Used in the cement, coal, dry chemicals, fly ash industries.
Use special 3+3 covers to prevent heat reaching the carcass.

For further advice contact technical department.

Technical Specifications

- Product Norm: DIN 22102 ETY
- E = anti-static DIN 22104
- T = heat resistant up to 150°C, EPDM covers and plies resistant to mineral oils at low temperatures, resistant to acids and lyes in low concentrations
- Y = good abrasion resistance according to DIN 53516
- Elongation at maximum recommended working load 2.5% at high temperatures

Temperature Range

- -20°C to +150°C



TYPE	Thickness (mm)	Weight (kg/m²)	Min. Pulley ø (mm)
EPDM800/4 3+3 T150	11.3	12.0	500



HOT OIL - HOT OIL/ FIRE RESISTANT ISO 340/284

HOT OIL AND FIRE RESISTANT BELT



Suitable for use in ATEX applications.

This special belt offers resistance to the combination of fats and oils and higher processing temperature up to 120°C in often humid working environments.

The belt is specially aimed at solving high temperature problems in processing of soya beans, cattle feed, rape seed and fat processing.

Technical Specifications

- Product Norm: DIN 22102 ETGX
- E = anti-static DIN 22104
- T = heat resistant to 120°C for fatty products
- G = both covers and textile plies resistant to mineral, animal and vegetables oils and fats, low concentrations of acids, lyes and water resistant
- X = good abrasion resistance
- K = flame retardant DIN 22103K - ISO 340/EN 20340
- Elongation at maximum recommendation working load - 1.5-2.0%

Temperature Range

- -20°C to +120°C

TYPE	Thickness (mm)	Weight (kg/m ²)	Min. Pulley ø (mm)
PP800/4 2+2 NBR T120	9.0	9.8	500



Free Technical Support and Engineering Design Service - contact 4B or visit: www.go4b.com

FDA-NBR - WHITE FOOD QUALITY BELT (EPG)

NBR - WHITE NITRILE - FDA



This belt quality has good oil and fat resistance and meets the requirements for components in contact with food stuffs.

Used widely with rice processing, flour mills, dry milk products, salt, sugar and detergents etc.

- FDA Approved
- Highly Oil Resistant (NBR) covers

Technical Specifications

- Constructed with Polyester / Polyamide plies with low elongation characteristics
- Resistant to acids and lyes in low concentration
- Approved FDA CFR section 21-177-2600, DIN 22102 EGA
- E = Anti-static DIN 22104
- G = Fat resistant
- A = Food quality

Temperature Range

- -20°C to +100°C



TYPE		EP400	EP500	EP630	EP800	EP1000
Number of plies	-	3	3	3	4	4
Total Tensile Strength	kN/m	400	500	630	800	1000
Maximum Working Tension (10:1 Safety Factor)	kN/m	40	50	63	80	100
Top & Bottom Cover Thickness	mm	1.5+1.5	1.5+1.5	1.5+1.5	2+2	2+2
Belt Thickness	mm	6.0	6.3	6.9	9.4	10.6
Weight	kg/m ²	8.2	8.4	8.7	11.9	12.5
Minimum Pulley Ø	mm	315	315	400	500	630



FDA-FRASOR - WHITE FOOD QUALITY BELT (EPK)

FRASOR - ISO 340/284 - FDA




- FDA Approved
- Flame Retardant ISO340
- Suitable for ATEX- applications
- Antistatic ISO284
- Moderately Oil Resistant (MOR) covers

Technical Specifications

- Constructed with Polyester/ Polymide plies with low elongation characteristics
- Flame Retardant ISO340
- Resistant to acids and lyes in low concentration
- Approved FDA CFR section 21-177-2600, DIN 22102 EGA
- E = Anti-static DIN 22104
- G = Fat resistant
- A = Food quality

Temperature Range

- -20°C to +80°C 

TYPE		EP400	EP500	EP630	EP800	EP1000
Number of plies	-	3	3	3	4	4
Total Tensile Strength	kN/m	400	500	630	800	1000
Maximum Working Tension (10:1 Safety Factor)	kN/m	40	50	63	80	100
Top & Bottom Cover Thickness	mm	3+1	3+1	3+1	3+1.5	3+1.5
Belt Thickness	mm	6.0	6.3	6.9	9.4	10.6
Weight	kg/m ²	8.3	8.5	8.8	12.0	12.6
Minimum Pulley Ø	mm	315	315	400	500	630



Free Technical Support and Engineering Design Service - contact 4B or visit: www.go4b.com

STEEL WEB

The 4B Steel Web Belt is a rubber elevator belt with a special steel cord core. The cords provide low elongation with high elasticity in the length, and cross rigidity in the width. The built-in elasticity allows running over slightly crowned pulleys which greatly improves belt tracking, and helps to avoid belt wandering which is often the reason for elevators shutting down. The rigid weft cords act as a barrier to ripping and tearing which increases the holding ability for the bucket bolts. This produces a good cross rigid belt resulting in excellent straight tracking characteristics.

In contrast, most conventional steel cable belts lack elasticity and consequently have to run over truly flat, cylindrical pulleys which increases the risk of belts off-tracking.

The 4B Steel Web Belt is designed for heavy duty/industrial bucket elevator applications with long centre distances that require stable running and reliable belts with high safety factors. All 4B Steel Web Belts are manufactured in accordance with DIN 22102 and ISO norms.

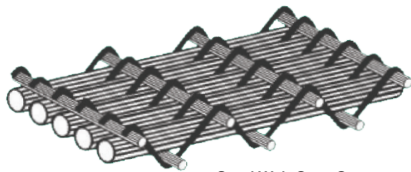
TECHNICAL SPECIFICATIONS

**For tall, high tonnage industrial elevators.
Steel cord keeps belt stretch to a minimum.**

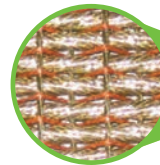
- Strength - up to 2,500 kN/m
- Covers 3 + 3 or 4 + 4
- Elongation at maximum working load 0.5%
- Temperature resistant up to 130°C continuous
- Anti static
- Bolt holes to customer specification

Temperature Range -20°C to +130°C 

STEEL WEB BELT



Steel Web Core Carcass



Detailed View of Steel Web Core

STANDARD RANGE	COVERS (MM)	BELT THICKNESS (MM)	MINIMUM PULLEY Ø (MM)	APPROX WEIGHT (KG/M²)
SW 800	3+3	12.0	500	18.0
SW 1000	3+3	12.0	500	18.7
SW 1250	3+3	13.0	630	21.0
SW 1400	4+4	15.0	630	24.5
SW 1600	4+4	15.0	630	25.0
SW 1800	4+4	15.0	630	25.5
SW 2000	4+4	15.0	800	26.0
SW 2500*	5+5	18.0	800	32.5

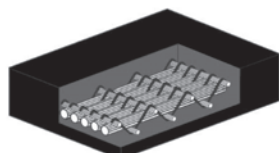
* On special offer

Other types on demand:

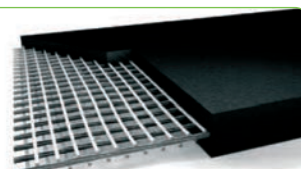
Type 1 - highly abrasion resistant with a maximum service temperature of 100°C

Type 2 - abrasion resistant with a maximum service temperature of 130°C. Continuous short peaks at 150°C

Type 3 - oil and fat resistant, anti static and flame retardant ISO 340



Steel Web



Use with BC Clamp - see p.14



SJ BUCKETS / BC CLAMP / STEEL WEB BELT



HIGH CAPACITY SYSTEM

A proven solution for the heavy industry.

4B can offer an integrated system of Steel Web Belting, SJ Pressed Steel Buckets and free engineering for elevator designs with compact industrial elevators.

ADVANTAGES OF USING THE SJ SYSTEM AND STEEL WEB BELT:

- Savings of up to 33% on component costs
- Heavy duty but lighter weight system
- Taller elevators are possible (up to 150m)
- Low maintenance costs
- Higher belt speeds are possible
- Closer bucket spacing
- Higher capacity and efficiency



BC Clamp Belt
Splice on 4B Steel
Web Core Belt



Starco Jumbo (SJ)
Buckets on 4B Steel
Web Core Belt in
Cement Application

For more detailed product information,
please visit: www.go4b.com

BC CLAMP

HEAVY DUTY ELEVATOR BELT FASTENER



The Braime Clamp (BC) series of heavy-duty belt splices securely fastens belting on larger bucket elevators. As the originator of this proven style of belt clamp, 4B designed it from three pieces of extruded aluminium including a center wedge section to minimize belt wear.

The BC1 and BC2 can be used on textile belts. All BC Clamps can be used on steel web belting.

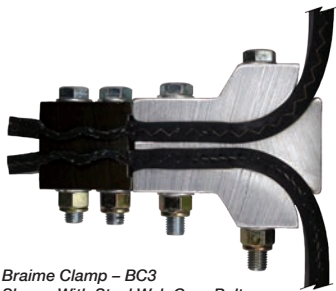
The BC2, BC3 and BC4 versions incorporate an additional three piece machined steel vise grip section designed to ride above the aluminium base clamp and secure the steel cords within a steel web belt.



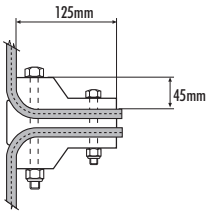
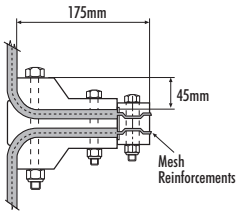
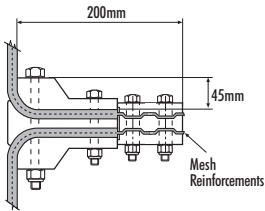
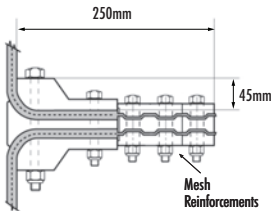
Braime Clamp – BC1*



Braime Clamp – BC2
With Steel Cord Vise Grip Section



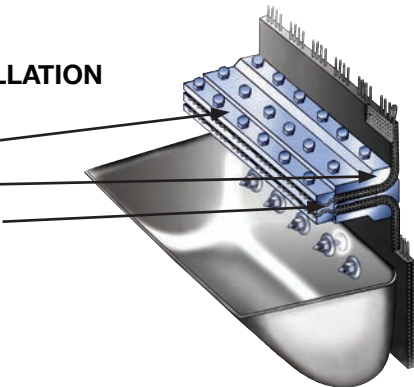
Braime Clamp – BC3
Shown With Steel Web Core Belt

				
	BC1*	BC2	BC3	BC4
Belt Strength	1,400 kN/m	1,600 kN/m	2000 kN/m	2,500 kN/m
Weight (per m belt width)	31.6 Kgs/m	56.5 Kgs/m	71 Kgs/m	96 Kgs/m
Bolt Size	Bolt M16	Bolt M16	Bolt M16	Bolt M16

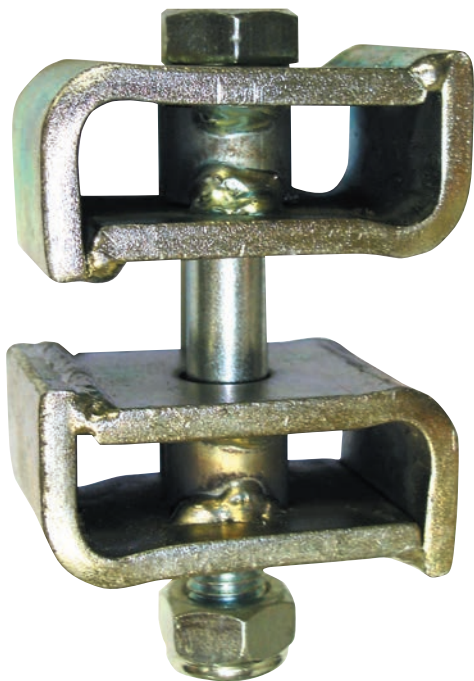
* For textile belts, use only BC1.

STEEL WEB BELT INSTALLATION WITH BC CLAMP

High tensile bolt
Carcass
Steel Extra heavy duty cable clamp for high tensile belt



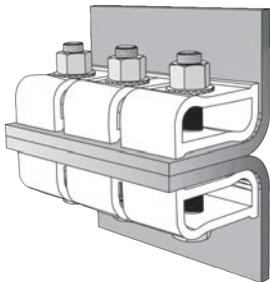
SUPERGRIP SYSTEM

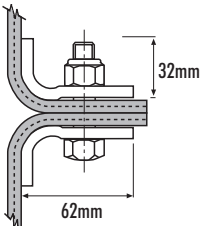
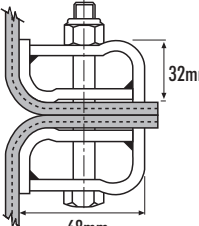
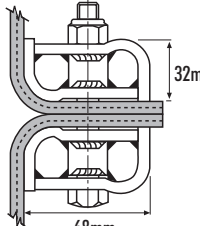
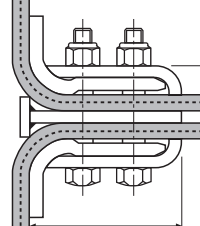


The **Supergrip** belt fastener secures belting on bucket elevators. The two ends of the belt are gripped between extruded steel plates, clamped together by zinc plated high tensile bolts and self-locking nuts.

- Easy to fit modular system of 50mm segments
- 4 versions available for belts up to 1250 kN/m without thickness limitation
- Each assembly comprises 2 half joints, high tensile bolt & self-locking nut
- With standard nylon nuts - max temp. 80° C, for temp. 80° C+ specify Philidas nuts
- Available in stainless steel

Example of joint using 3 Supergrips on a belt of 150 to 195mm wide. 25mm minimum belt projection for all sizes.



				
	Supergrip No.1	Supergrip No.2	Supergrip No.3	Supergrip No.4
Belt Strength	500 kN/m	630 kN/m	800 kN/m	1,000/1,250 kN/m
Weight (per unit)	0.5 Kgs/m	0.8 Kgs/m	0.85 Kgs/m	1.83 Kgs/m
Bolt Size	Bolt M14	Bolt M14	Bolt M14	Bolt M16

Bespoke belt clamps available for belts over 1250kN/m. Contact 4B's technical department.



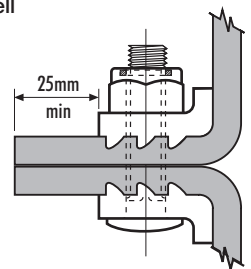
LIGHT DUTY ELEVATOR BELT FASTENER



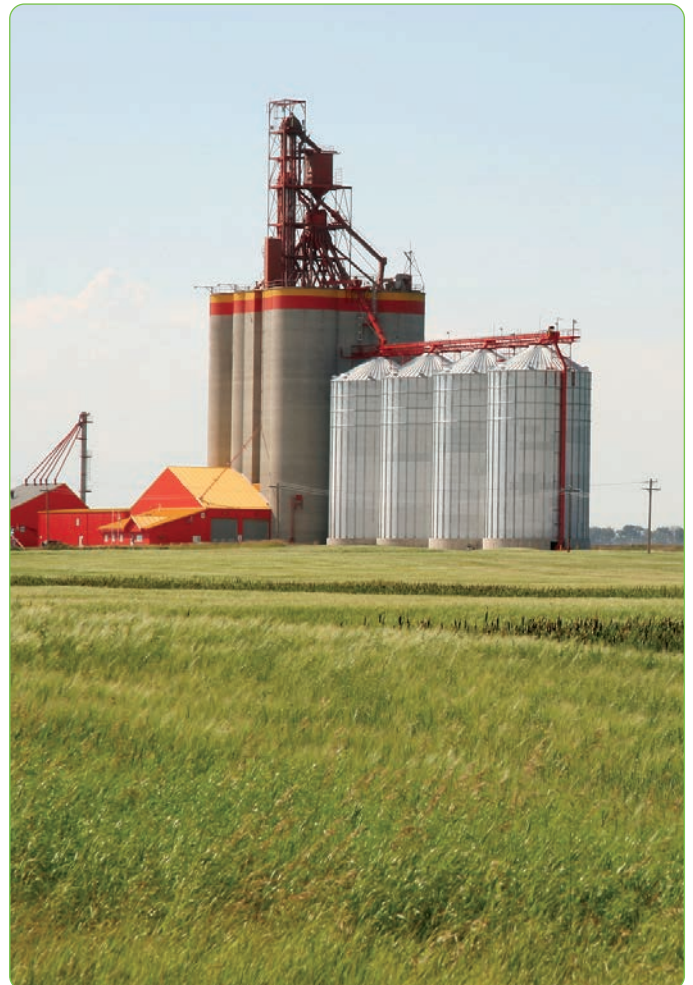
The Gripwell light duty aluminium fastener secures belting on bucket elevators. The two ends of the belt are gripped between extruded serrated plates, clamped together by zinc plated high tensile bolts, safely secured by plated self-locking nuts to give a strong reliable and rustproof fastener.

The Gripwell forms a butt joint, the belt runs smoothly over the pulley with minimum stress to the joint and no relative movement can take place between the two belt ends, as is the case when an overlapping joint passes over the pulleys.

- For elevator belts up to 500 kN/m and up to 7.0mm max. thickness
- Vise grip between serrated jaws
- For longer joints use 2 fasteners of equal length per joint. e.g. 2 x 150mm Gripwell fasteners for a 300mm wide belt



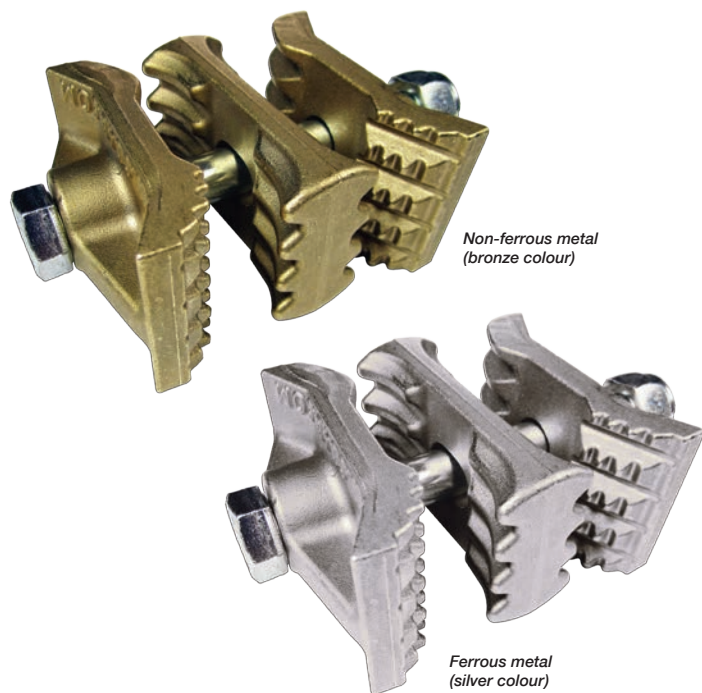
Belt Width (mm)	Actual Length (mm)	Bolt Holes (mm)	Ø (mm)	Centres (mm)
50	45	2	8.0	25
65	57	2	8.0	33
75	70	2	8.0	43
90	83	3	8.0	2x28
100	96	3	8.0	2x33
115	109	3	8.0	2x42
125	122	4	8.0	3x32
140	134	4	8.0	3x36
150	147	4	8.0	3x40
165	160	5	8.0	4x33
175	172	5	8.0	4x36
200	198	6	8.0	5x34
225	223	6	8.0	5x40
250	248	7	8.0	6x37
275	273	7	8.0	6x41
300	299	8	8.0	7x39



WISE SPLICE



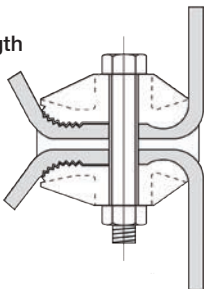
MECHANICAL ELEVATOR BELT SPLICES



4B Vise Splices are mechanical splices for use on most PVC and rubber elevator belts. Each splice unit is made of three pieces. The outside plates have two different gripping areas. The ribbed gripping area is mounted towards the face of the belt. The opposite end has a series of both longitudinal and axial teeth. The center plate is symmetrical and cannot be improperly installed around its elongated centre hole.

The splice functions by using the tension supplied by the belting. This tension on the belt ends pulls the outer plates apart, and forces gripping pressure towards the teeth on the splice unit. The greater the belt tension, the more pressure is exerted on the gripping teeth at the forward end of the splice.

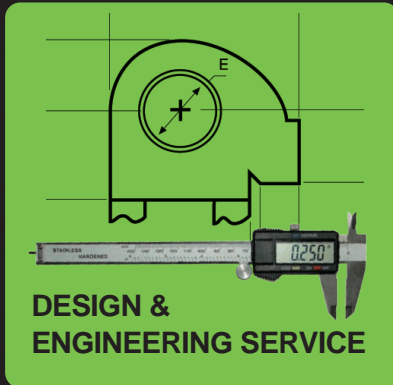
- For belts 1000 to 1400 kN/m tensile strength
- Use on PVC and rubber belting
- Non-sparking (non-ferrous version)
- Each splice accommodates 50mm of belt width



Non-Ferrous	Ferrous
up to 1400 kN/m Tensile Strength	up to 1000 kN/m Tensile Strength
Bronze Colour	Silver Colour
1.33 kgs	1.18 kgs
Up to 260°C	Up to 315°C



DESIGN & ENGINEERING SERVICES



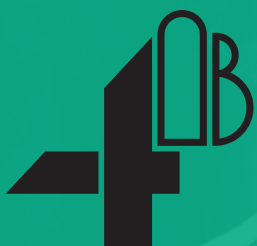
BUCKET ELEVATOR PERFORMANCE ANALYSIS

4B ENGINEERS CAN:

- Maximize Bucket Elevator Capacity (TPH)
- Calculate Horsepower and Shaft Diameter Requirements
- Recommend Shaft / Belt Speeds
- Troubleshoot Elevator Issues
- Provide Solutions for Hazard Monitoring Compliance



Free Technical Support and Engineering Design Service - contact 4B or visit: www.go4b.com



**ELEVATOR
BELTING
DEPARTMENT**

4B catalogues also available:

-  Electronics
-  Elevator Buckets
-  Elevator Belting
-  Forged Chains



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