

## 4B Polysur Steel Web Belt for Bucket Elevators

Rubber Belt with a Steel Core for High Strength & Minimal Stretch

### APPLICATION

The 4B Polysur 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 Polysur 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 Polysur Steel Web Belts are manufactured in accordance with DIN 22102 and ISO norms.

### FEATURES

- ▶ Strength - up to 2,500 kN/m
- ▶ Minimum Stretch - 3+3, 4+4, or 5+5 mm Covers
- ▶ Elongation at Maximum Working Load 0.35%
- ▶ Temperature Resistant up to 302°F (150°C) Continuous, Short Peaks - 356°F (180°C)
- ▶ Anti-Static
- ▶ Bolt Holes Drilled to Customer Specifications

### ACCESSORIES

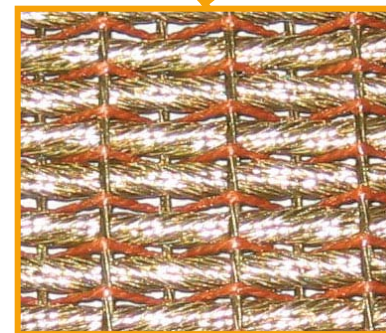
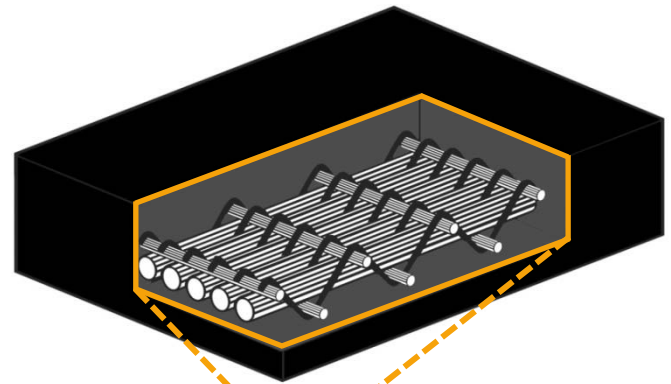
- ▶ Starco Jumbo (SJ) Pressed Steel Elevator Buckets
- ▶ Fabricated Elevator Buckets
- ▶ BC Series Belt Splices
- ▶ Bolts & Washers



BC2 Belt Splice



Starco Jumbo  
Elevator Bucket



Detailed View of Steel Web Core

### APPLICATIONS

- Cement Plants
- Fly Ash Facilities
- Fertilizer Plants
- Foundries
- Concrete Mixing Plants
- Glass Factories
- Grain Elevators in Port Silos

# 4B Polysur Steel Web Belt

BETTER BY DESIGN

## TECHNICAL SPECIFICATIONS

### 4B Polysur Steel Web Belt for Bucket Elevators

Strength	Covers (mm)	Belt Thickness (mm)	Minimum Pulley Ø (mm)	Approximate Weight (kg/m <sup>2</sup> )
SW 630	3+3	11	400	15,21
SW 800	3+3	12	500	17,20
SW 1000	3+3	13	500	17,93
SW 1250	4+4	14	630	22,37
SW 1400	4+4	14	630	23,12
SW 1600	4+4	14	630	23,97
SW 1800	4+4	14	630	24,67
SW 2000	4+4	14	800	25,17
SW 2500	5+5	17	1,000	27,71

### BELT TYPES -

4B Polysur Steel Web Belts are available in six different types:

**T60** - Very good abrasion resistant quality, based on SBR rubber for use with ambient temperatures of 140°F (60°C).

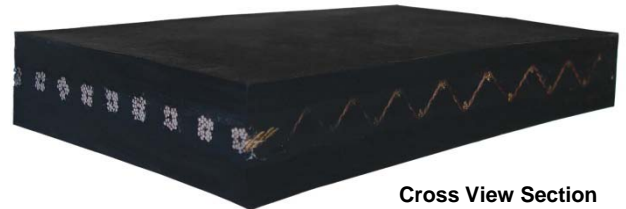
**T100** - Improved version of the T60 for temperatures of 194 - 212 F (90 - 100 C) and short peaks up to 248 F (120 C).

**T130** - Based on EPDM rubber, suitable for product temperatures up to 266 F (130 C) and short peaks up to 302 F (150 C).

**T150** - Based on EPM rubber, suitable for product temperatures up to 302 F (150 C) and short peaks up to 356 F (180 C).

**G** - Suitable for handling oily and fatty product at temperature up to 176 F (80 C).

**ALE** - White rubber food quality suitable for non-fat food products at ambient temperatures.



Cross View Section of Steel Web Belt

## FREE

Elevator & Conveyor Engineering Design Service

Take advantage of 4B's free, guaranteed worldwide technical support service from a team of material handling engineers specializing in the design and upgrade of bucket elevators and conveyors.

Whether you want a new elevator design, or just want to increase the capacity and performance of your existing elevator, our engineers can help.

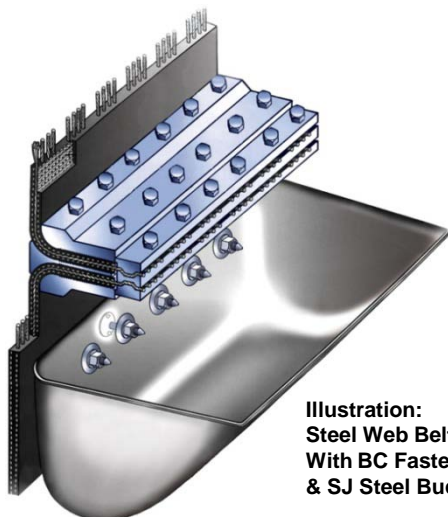
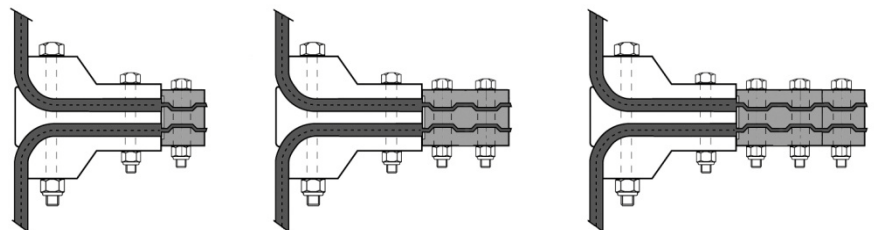


Illustration:  
Steel Web Belt  
With BC Fastener  
& SJ Steel Bucket

### BC Series – Belt Fasteners for Steel Web Belt



BC2	BC3	BC4
Belt Strength 1,600 kN/m max. up to 910 PIW Belt	Belt Strength 2,000 kN/m max. up to 1,100 PIW Belt	Belt Strength 2,500 kN/m max. up to 1,400 PIW Belt