

## 4B Polysur Steel Web Belt for Bucket Elevators

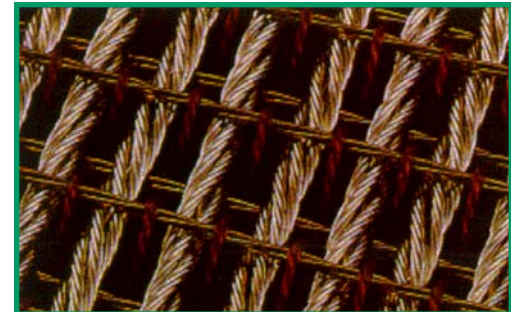
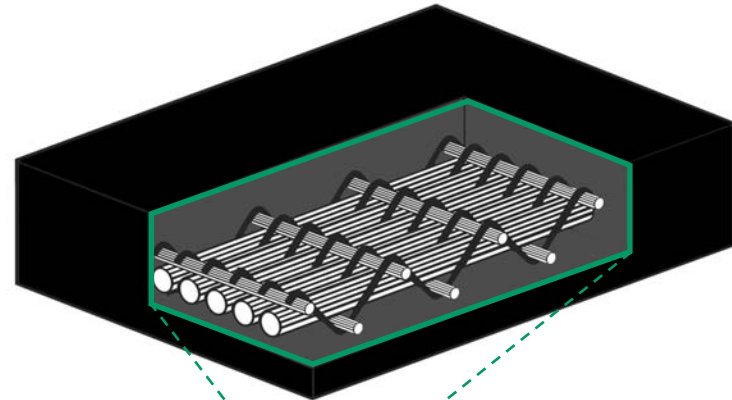
### Rubber Belt with a Steel Core for High Strength & Minimal Stretch

#### 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.



Detailed View of Steel Cords

#### FEATURES

- ▶ Strength - up to 2,500 kN/m
- ▶ Minimum Stretch - 3+3 or 4+4 Covers
- ▶ Elongation at Maximum Working Load 0.3%
- ▶ Temperature Resistant up to 266°F (130°C) Continuous, Short Peaks - 302°F (150°C)
- ▶ Anti-Static
- ▶ Bolt Holes Drilled to Customer Specifications

#### ACCESSORIES

- ▶ SJ Pressed Steel Elevator Buckets
- ▶ Fabricated Elevator Buckets
- ▶ BC Series Belt Fasteners
- ▶ Bolts & Washers



BC2 Belt Fastener

#### APPLICATIONS

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

Detailed specification, diagrams and installation instructions available immediately upon request. For high temperature applications, please consult our technical department.

Please refer to instruction manual for correct installation. Information subject to change or correction. June 2008.

## TECHNICAL SPECIFICATIONS

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

Standard Range	Covers (mm)	Belt Thickness (mm)	Minimum Pulley Ø (mm)	Approximate Weight (kg/m <sup>2</sup> )
SW 630	3+3	11.0	400	16.00
SW 800	3+3	12.0	500	18.00
SW 1000	3+3	12.0	500	18.75
SW 1250	4+4	15.0	630	21.00
SW 1400	4+4	15.0	630	24.50
SW 1600	4+4	15.0	630	25.00
SW 1800	4+4	15.0	630	25.50
SW 2000	4+4	15.0	800	26.00
SW 2500*	5+5	18.0	800	32.50

\* Special Order

### BELT TYPES

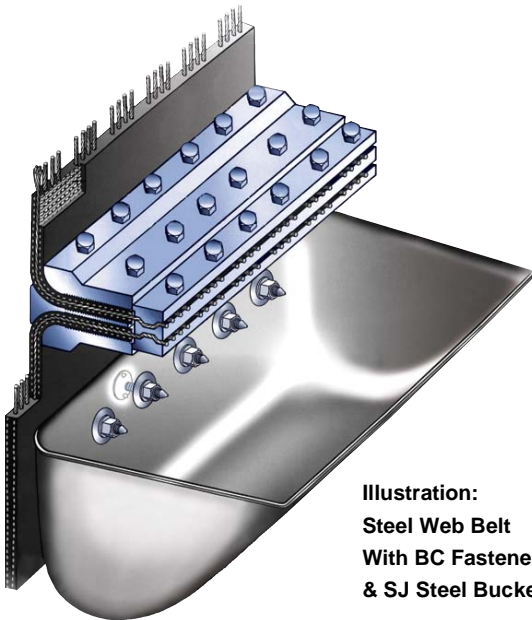
4B Polysur Steel Web Belts are manufactured in accordance with DIN 22102 and ISO norms and are available in four different types:

*Type T60* - highly abrasion resistant, maximum ambient temperature 140°F (60°C), cover hardness 60° A shore

*Type T100* - highly abrasion resistant, maximum ambient temperature up to 212°F (100°C), short peaks 230°F (110°C), cover hardness 64° A shore

*Type T130* - good abrasion resistance, maximum ambient temperature up to 266°F (130°C) continuous, short peaks 302°F (150°C), cover hardness 66° A shore

*Type CR* - oil and fat resistant, anti-static ISO 284, flame retardant ISO 340, cover hardness 70° A shore



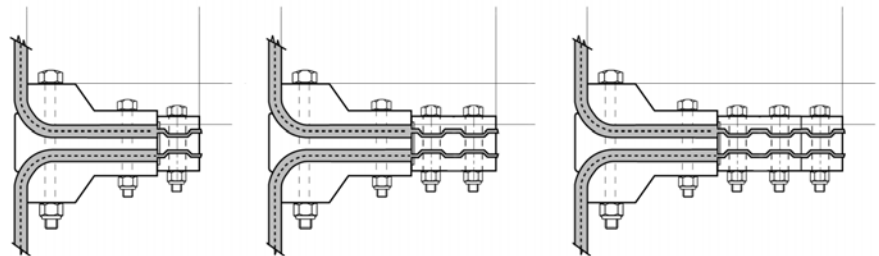
**Illustration:**  
Steel Web Belt  
With BC Fastener  
& SJ Steel Bucket

## 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.

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



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

Please refer to instruction manual for correct installation.  
Information subject to change or correction. June 2008.