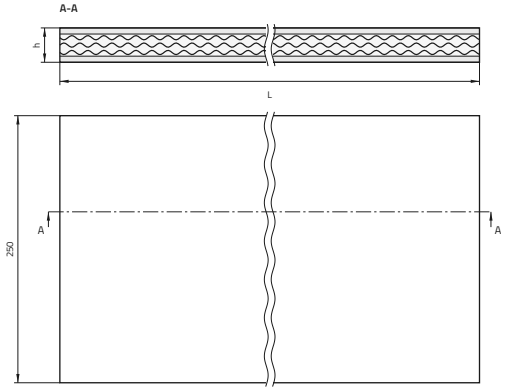
1. GENERAL INFORMATION



Various cleaning devices fitted with scrapers, brushes, discs or paddles are used to remove material stuck to the conveyor belt. Scraper systems use wear-resistant rubber blades of varying thickness (10 – 40 mm) as cleaning elements, pressing on the belt at a pressure of up to 0.1 bar.

Because scrapers work in particularly harsh conditions in lignite quarries, especially on dump conveyors, where the material carried is very abrasive and sticky when wet and dense, solutions were sought to make the rubber more resistant to these working conditions.

Using mixed compounds of rubber and impregnated textile insert, with the insert randomly dispersed through the rubber but making up most of it, clearly reinforces the product and improves every property a scraper needs:

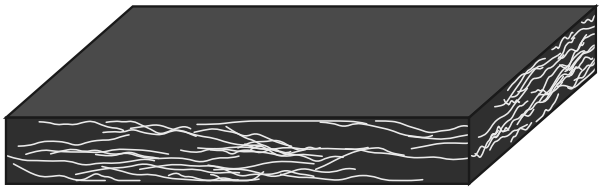
- very good compaction of the components in the product;
- better cleaning: as the rubber wears, a layer of textile fibres appears and works like a brush;
- excellent resistance to mechanical shocks;
- high tear resistance in the fixing area;
- a low friction coefficient against the belt, which increases wear resistance;
- longer life than a rubber-only product.

The scrapers are made 2000 × 250 × 40 (50) mm. Only the worn sections need replacing, one at a time, which extends the life of the device. Moving the scraper vertically also lets it be used until the whole active area is worn.

As a result, the product lasts at least 10 times longer than a rubber-only scraper, with excellent quality.

The scrapers are made of rubber and textile insert, with a PES/PA content of at least 70%.

1.1 Appearance of the material with textile insert



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2. DIMENSIONS

2.1 Dimensions

Thickness (mm)	Width (mm)	Length (mm)
40	250	500; 750; 800; 900; 910; 1000; 1060; 1210; 1500; 1600; 1800; 2000; 2400; 2500; 3000
50	250	500; 750; 800; 900; 910; 1000; 1060; 1210; 1500; 1600; 1800; 2000; 2400; 2500; 3000

2.2 Tolerances

	Tolerance
Length (L)	3%
Thickness (h)	±1.6 mm
Width (mm)	1.5%

3. APPEARANCE

- Smooth surface, with no voids or foreign inclusions.
- Compact in section, with no air bubbles.

4. CHARACTERISTICS

4.1 Product characteristics

Characteristics	Required value	Test method
Tensile strength (kgf/cm²), min	100	SR EN ISO 283/2016
Elongation at break (%), min	150	SR EN ISO 283/2016
Hardness (°Shore A)	70 – 85	SR ISO 48-4
Content of shredded textile insert, randomly dispersed in the product, PES/PA (%), min	70	

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