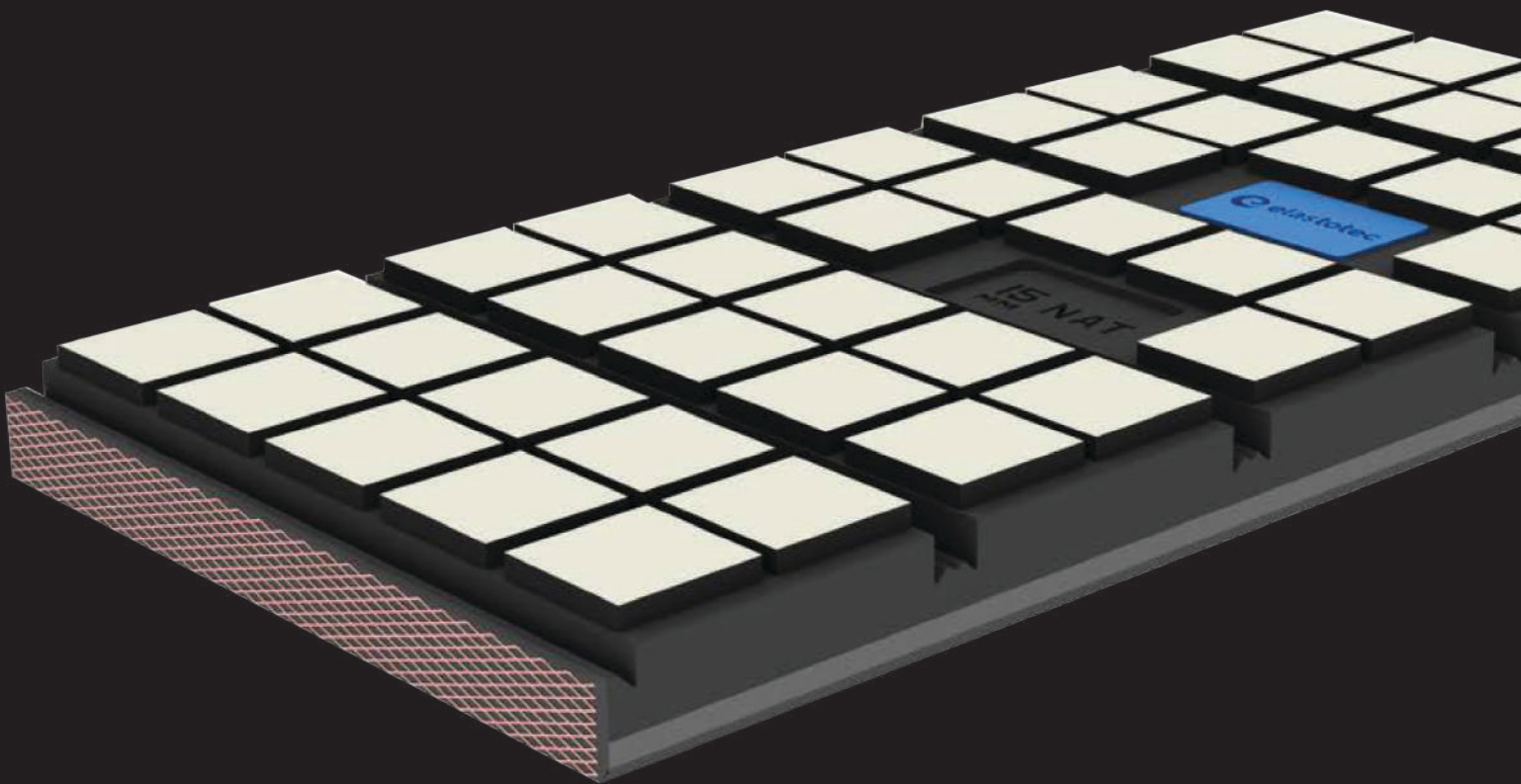




Crowned Ceramic Lagging



Engineered to Perform

Elastotec Crowned Ceramic Lagging is designed to be applied to flat pulley shells, to provide a crowned profile which will improve belt tracking.

The strips are molded with a built in tapered CN bonding layer, which eliminates the need for additional rubber layers. The lagging has tapered edges custom length, creating the crowned effect.

It is supplied with smooth ceramic tiles as it is only recommended for non drive pulleys.

Application

Elastotec Crowned Ceramic Lagging is designed to be applied to conveyor tail, snub, bend or take-up pulleys. It is used for conveyor system applications in the mining, quarrying, mineral and metal processing industries but can be used on any conveyor pulley.

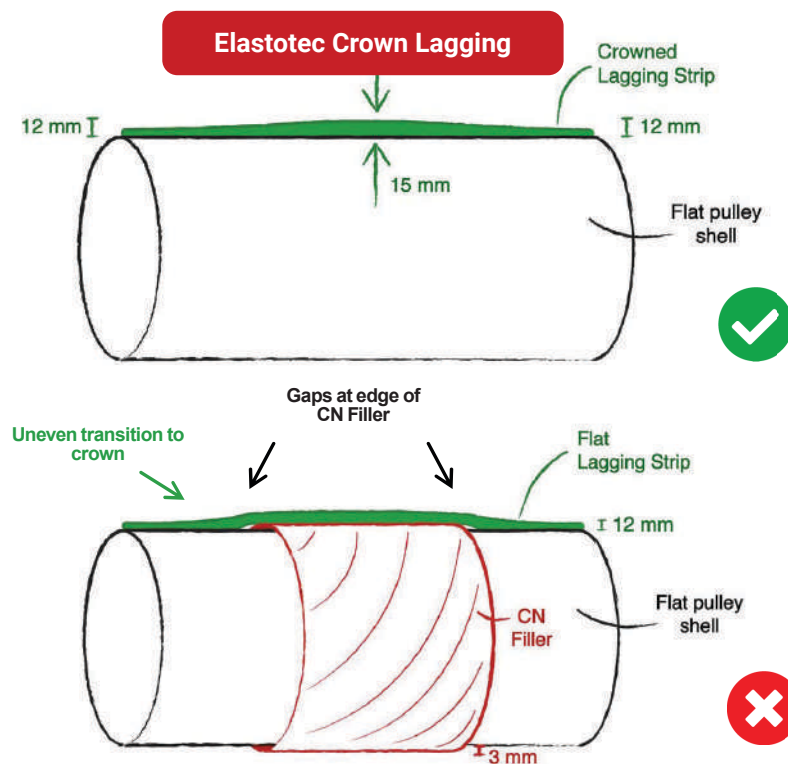
Performance

- ☉ **Designed to be applied to flat pulley shells which eliminates the need for machining.**
- ☉ **Improved belt tracking.**
- ☉ Available in 250mm wide strips that can be made to suit any pulley size and make it easy to install.
- ☉ Available in highly abrasion resistant SBR for above ground applications and FRAS for underground and high risk applications.
- ☉ Coloured logos (Blue for SBR and Red for FRAS).
- ☉ High quality rubber formulations designed for good bonding, resistance to degradation by out door exposure, and good abrasion resistance.
- ☉ Buffed CN Bonding layer for increased adhesion for Cold Bonded application.
- ☉ Available with uncured bonding layer for Hot Vulcanised application.
- ☉ Quick and easy to apply.
- ☉ Uniform bonding surface – no gaps.
- ☉ Uniform crown transition – kinder to the belt.
- ☉ Standard offering tapers from 15mm through the centre down to 12mm on the ends.
(Other thicknesses available. For other thicknesses, contact Elastotec.)
- ☉ Suitable for long term service at temperatures from - 40°C to +70°C.

Design

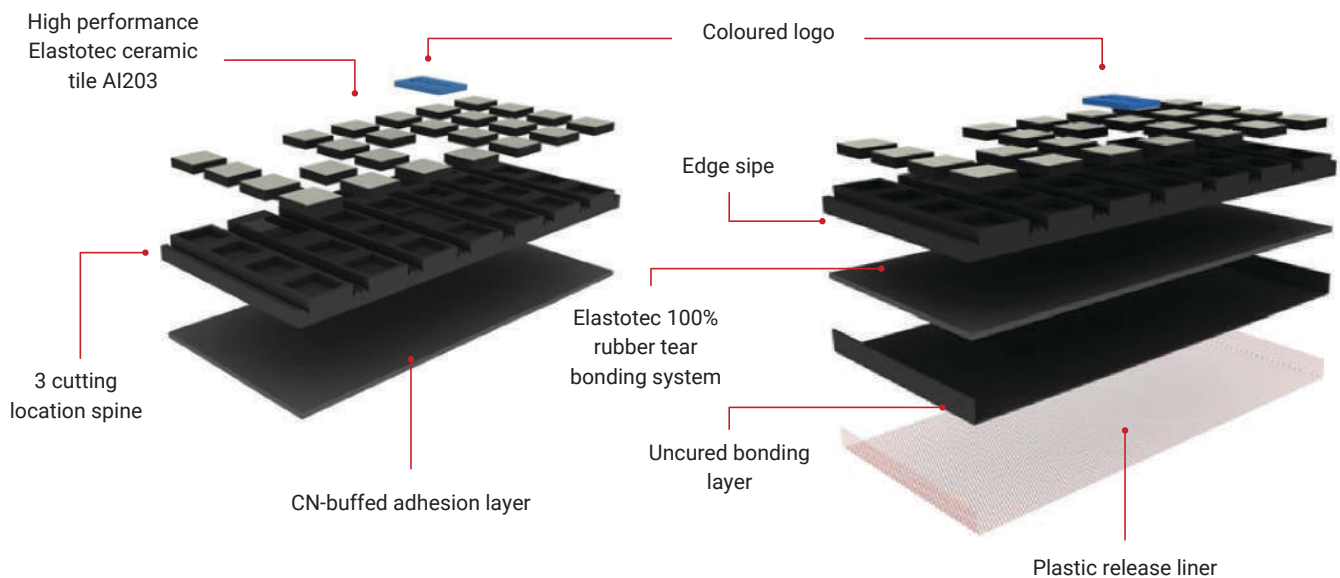
Crowned Ceramic Lagging strips are designed to ensure outstanding durability while helping to maintain belt alignment without the need for a machined crowned pulley shell.

The central portion of the strips has maximum thickness that gradually decreases towards the ends. Tiles are bonded to rubber on 5 sides to ensure maximum tile to rubber adhesion strength and reduce the risk of breakage.



COLD BONDED

HOT VULCANISED



Rubber Specifications

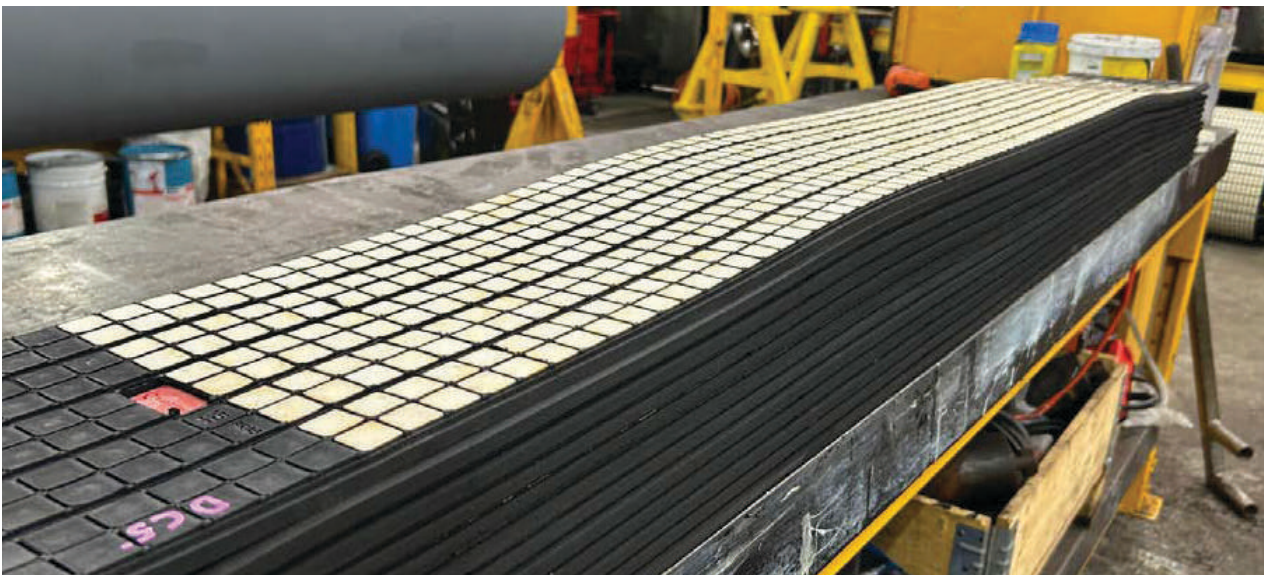
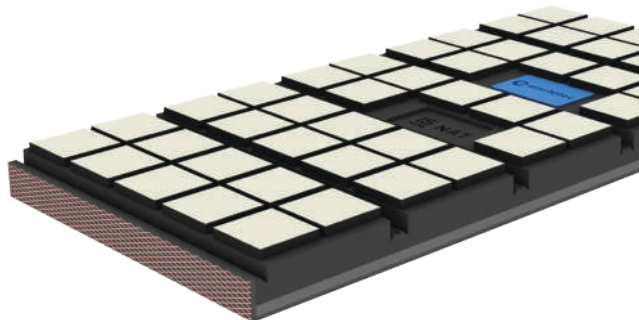
Typical values

	NAT	FRAS
Polymer	SBR	Blend
Tensile strength (MPa) min ISO37	18.0	16.0
% Elongation min ISO37	550%	500%
Hardness (shore A) ISO868	65+/-5	65+/-5
Abrasion resistance max vol. loss ISO 4649 method A (non-rotating)	70mm ³	150mm ³
Hardness (shore A) ISO868	N/A	PASS/ACCEPTED
Heat ageing (Property change after 70°C 168hs)	Tensile strength +1% Elongation -15% Hardness 5 points	Tensile strength +5% Elongation -1% Hardness 3 points
Continuous operating temperature	-40/+70°C	-40/+70°C

Ceramic Specifications

Typical values

Aluminium oxide	96%
Specific gravity g/cm ³	3.7
Vickers hardness HV (10)	1000 plus
Flexural strength (Mpa)	300
Compressive strength (Mpa)	1800
Fracture Toughness (Mpa m ^{1/2})	3.5



LAGGING SPECIFICATIONS – CROWNED CERAMIC 80% LAGGING

COLD BONDED – NAT

DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH
Crowned Ceramic Lagging 15mm Smooth Tiles	ELA-CWDRC80-N-15P	250mm-252mm	15mm middle 12mm ends	fit to pulley size

COLD BONDED – FRAS

DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH
Crowned Ceramic Lagging 15mm Smooth Tiles	ELA-CWDRC80-F-15P	250mm-252mm	15mm middle 12mm ends	fit to pulley size

HOT VULCANISED – NAT

DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH
Crowned Ceramic Lagging 15mm Smooth Tiles	ELA-CWDRC80-N-15PV	250mm-252mm	15mm middle 12mm ends	fit to pulley size

HOT VULCANISED – FRAS

DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH
Crowned Ceramic Lagging 15mm Smooth Tiles	ELA-CWDRC80-F-15PV	250mm-252mm	15mm middle 12mm ends	fit to pulley size

Thickness variation (all strips/pulley) +/-0.5mm.

Product code for different lengths: Add 5 digits indicating the ceramic length in mm. In general, the ceramic length corresponds to the belt width.

The total strip length (ceramic + rubber end pieces) is always 100mm longer than face width to allow overhang for trimming after application.

Example:


Strip: Crowned 80% Ceramic Lagging, smooth tiles, for pulley face width 1900mm, hot vulcanised: ELA-CWDRC80-F-15PV-01900


Recommendation for lagging thicknesses suitability for pulley diameters


15mm for pulleys 600mm diameter or larger


Crowned Ceramic Lagging is available in other ceramic coverage options (i.e. 20% or 80%), and other lagging thicknesses. Please contact your Elastotec representative for more information.



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