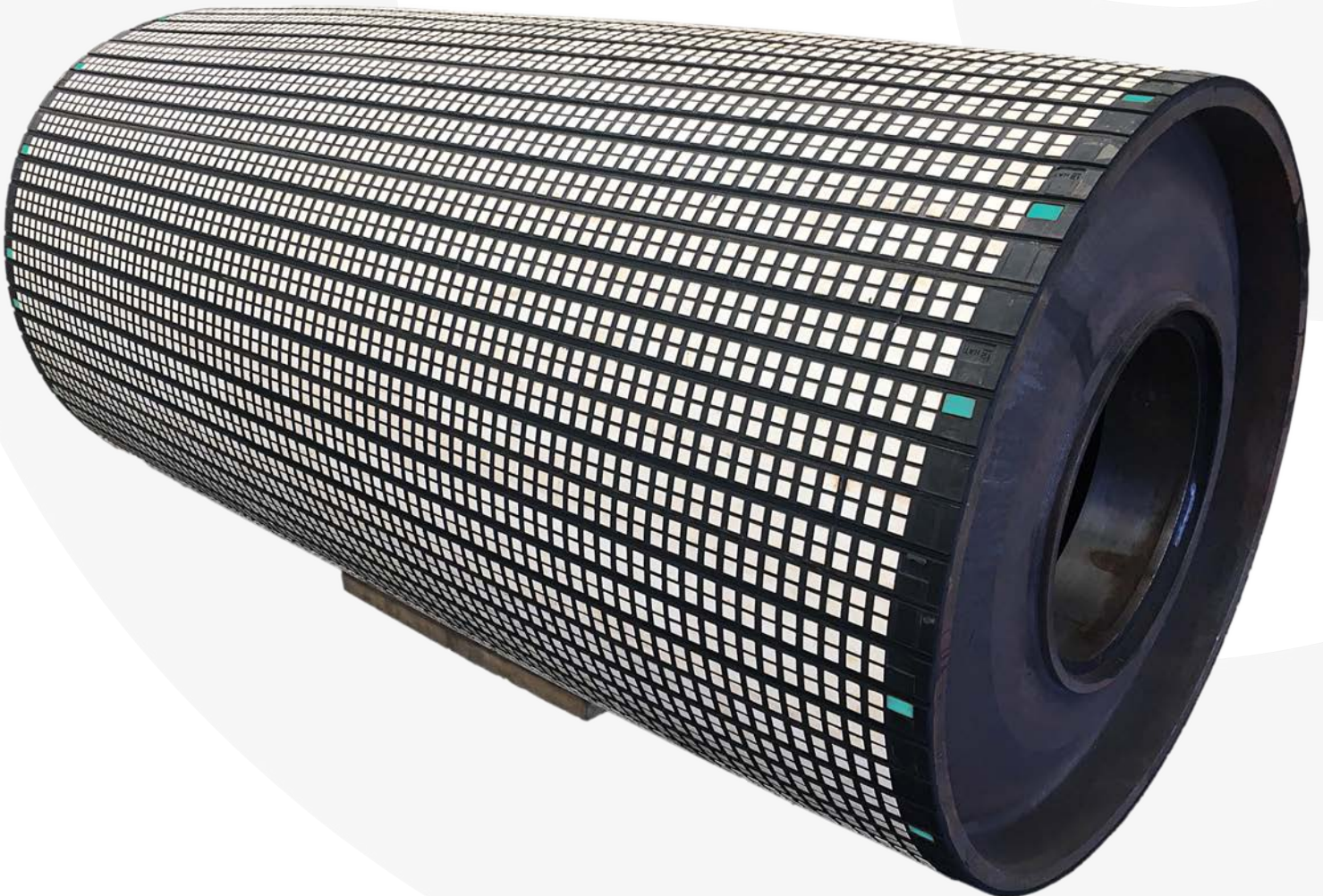


# CROWNED CERAMIC LAGGING

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 **elastotec**<sup>TM</sup>  
ENGINEERED TO PERFORM



## CROWNED CERAMIC LAGGING



### DESCRIPTION

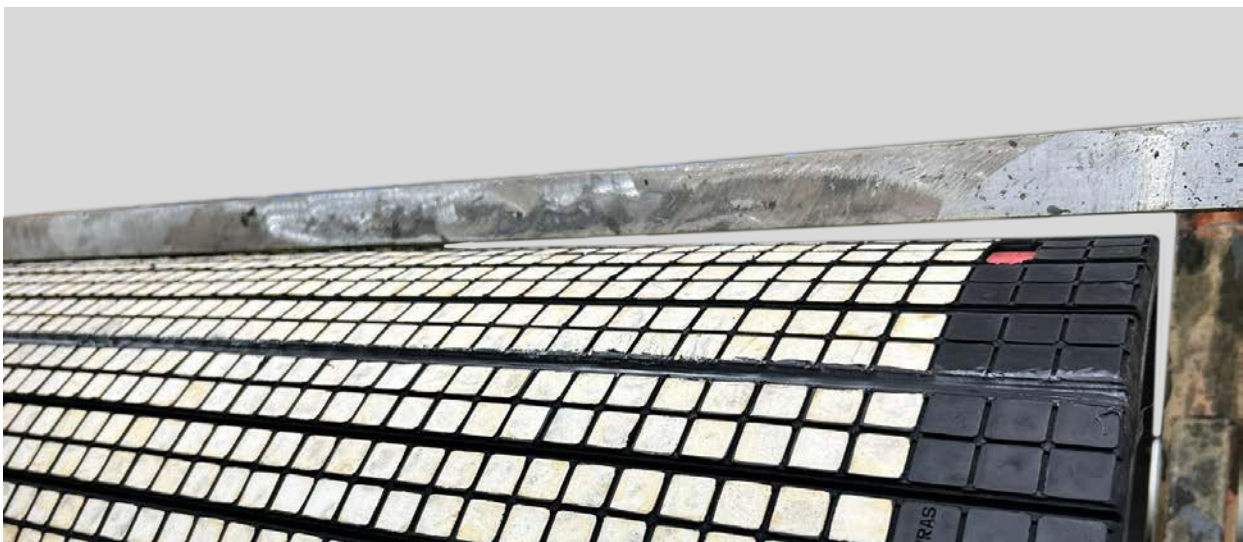
Elastotec Crowned Ceramic Lagging is designed to be applied to flat pulley shells, to provide a crowned profile which will improve belt tracking.

The strips are molded with a built in CN bonding layer, which eliminates the need for additional rubber layers. The lagging is buffed after molding to taper the thickness towards the edges, creating the crowned effect.



### 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.

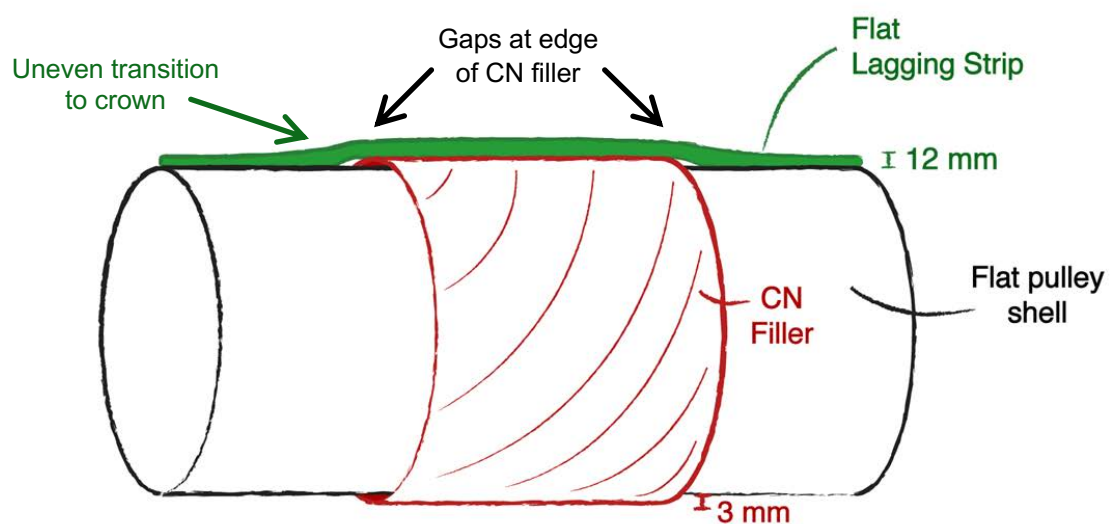
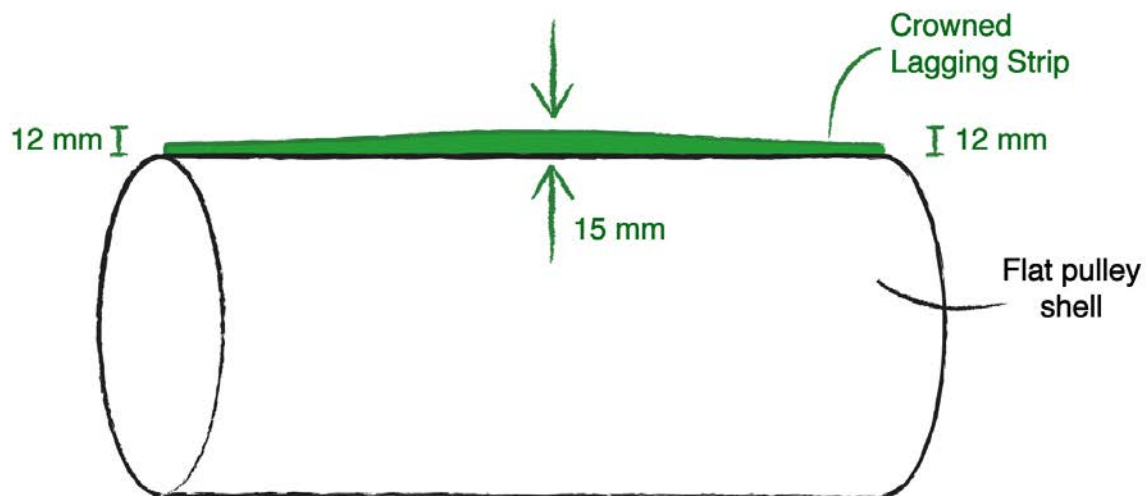


## CROWNED CERAMIC LAGGING

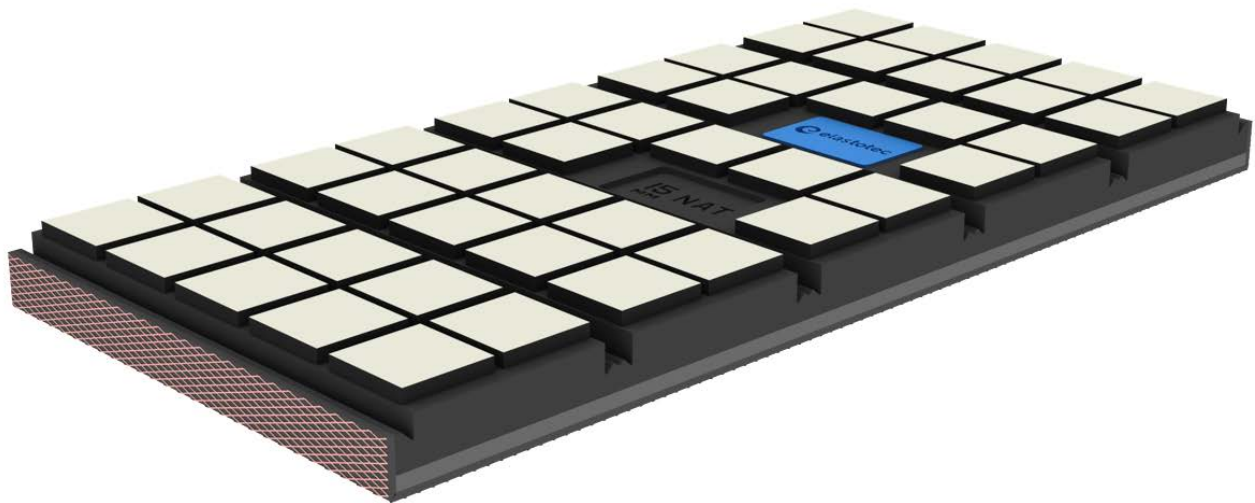


### KEY FEATURES AND BENEFITS

- ✓ 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 outdoor 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.
- ✓ Quicker and easier 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)
- ✓ Suitable for long term service at temperatures from - 40°C to +70°C.



**CROWNED CERAMIC LAGGING**

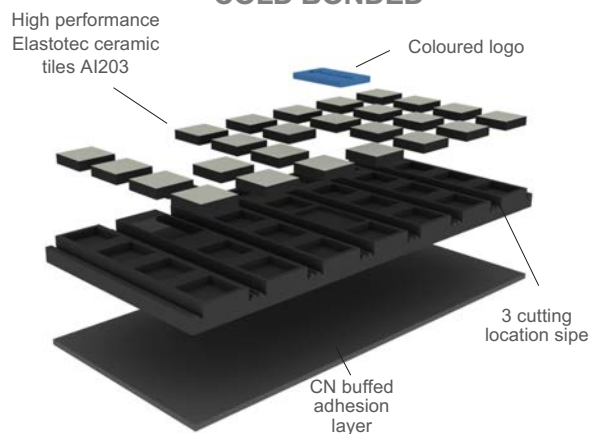


**DESIGN**

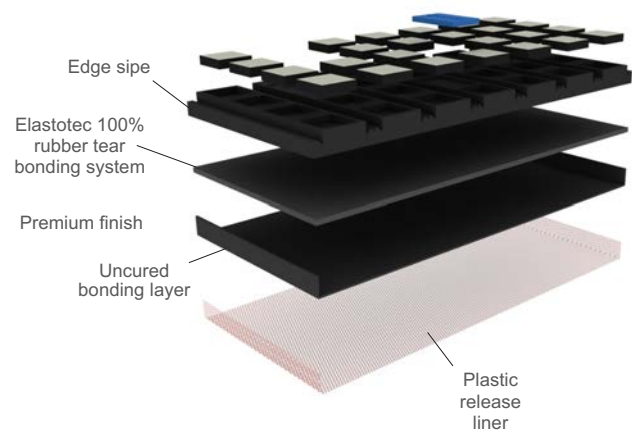
Crowned ceramic lagging strips are designed to ensure outstanding durability while helping to maintain belt alignment without the need for a machined crowned pulley shell.

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**



**CROWNED CERAMIC LAGGING**

**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 <sup>3</sup>	150mm <sup>3</sup>
FRAS - MDG3608 and MSHA Standards	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

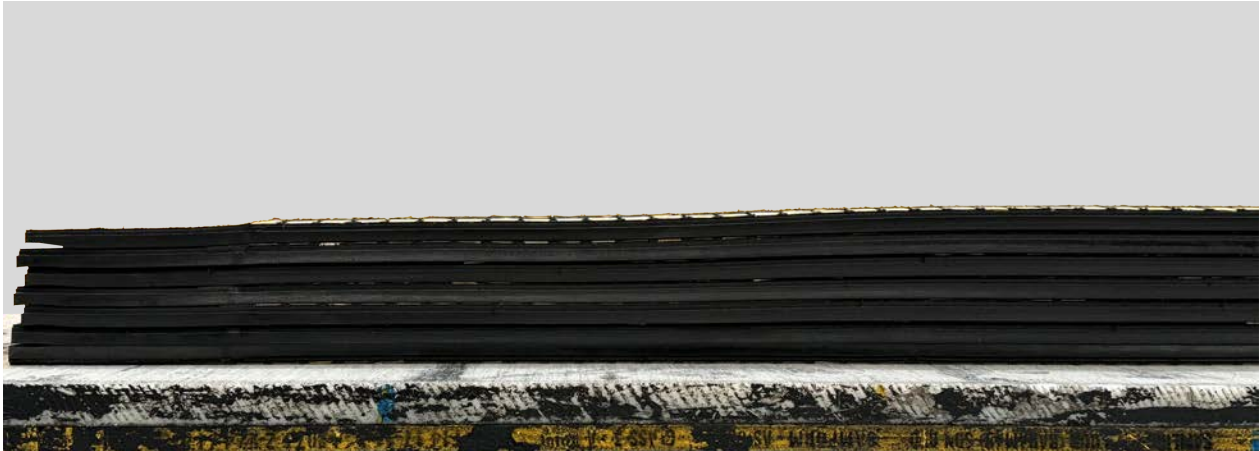
**CERAMIC SPECIFICATIONS**

*Typical values*

Aluminium oxide	96%
Specific gravity g/cm3	3.7
Vickers hardness HV (10)	1000 plus
Flexural strength (Mpa)	300
Compressive strength (Mpa)	1800
Fracture Toughness (Mpa m <sup>1/2</sup> )	3.5



## CROWNED CERAMIC LAGGING



### LAGGING SPECIFICATIONS – CROWNED CERAMIC 80% LAGGING

#### COLD BONDED – NAT

##### DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH
Crowned Ceramic Lagging 15mm Smooth Tiles	ELA-CWDR80-N-15P	250mm-252mm	15mm middle 12mm ends	fit to pulley size

#### COLD BONDED – FRAS

##### DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH
Crowned Ceramic Lagging 15mm Smooth Tiles	ELA-CWDR80-F-15P	250mm-252mm	15mm middle 12mm ends	fit to pulley size

#### HOT VULCANISED – NAT

##### DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH
Crowned Ceramic Lagging 15mm Smooth Tiles	ELA-CWDR80-N-15PV	251mm-255mm	15mm middle 12mm ends	fit to pulley size

#### HOT VULCANISED – FRAS

##### DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH
Crowned Ceramic Lagging 15mm Smooth Tiles	ELA-CWDR80-F-15PV	251mm-255mm	15mm middle 12mm ends	fit to pulley size

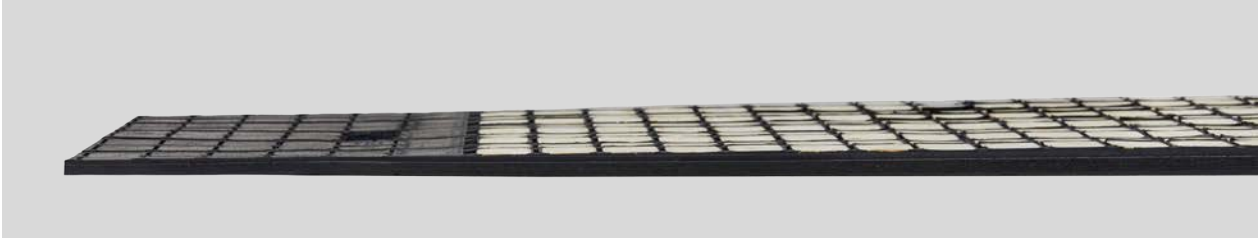
Thickness variation (all strips/pulley) +/-0.5mm.

Product code for different lengths: Add 5 digits indicating the overall strip length in mm. Strip length to always be 100mm longer than face width to allow overhang for trimming after application.

## CROWNED CERAMIC LAGGING

**Example:**


Strip: Crowned 80% Ceramic Lagging, smooth tiles, for pulley face width 1900mm natural rubber, hot vulcanised:  
ELA-CWDR80-DIA-F-15P-1900




**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.**



For more information, please contact:

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