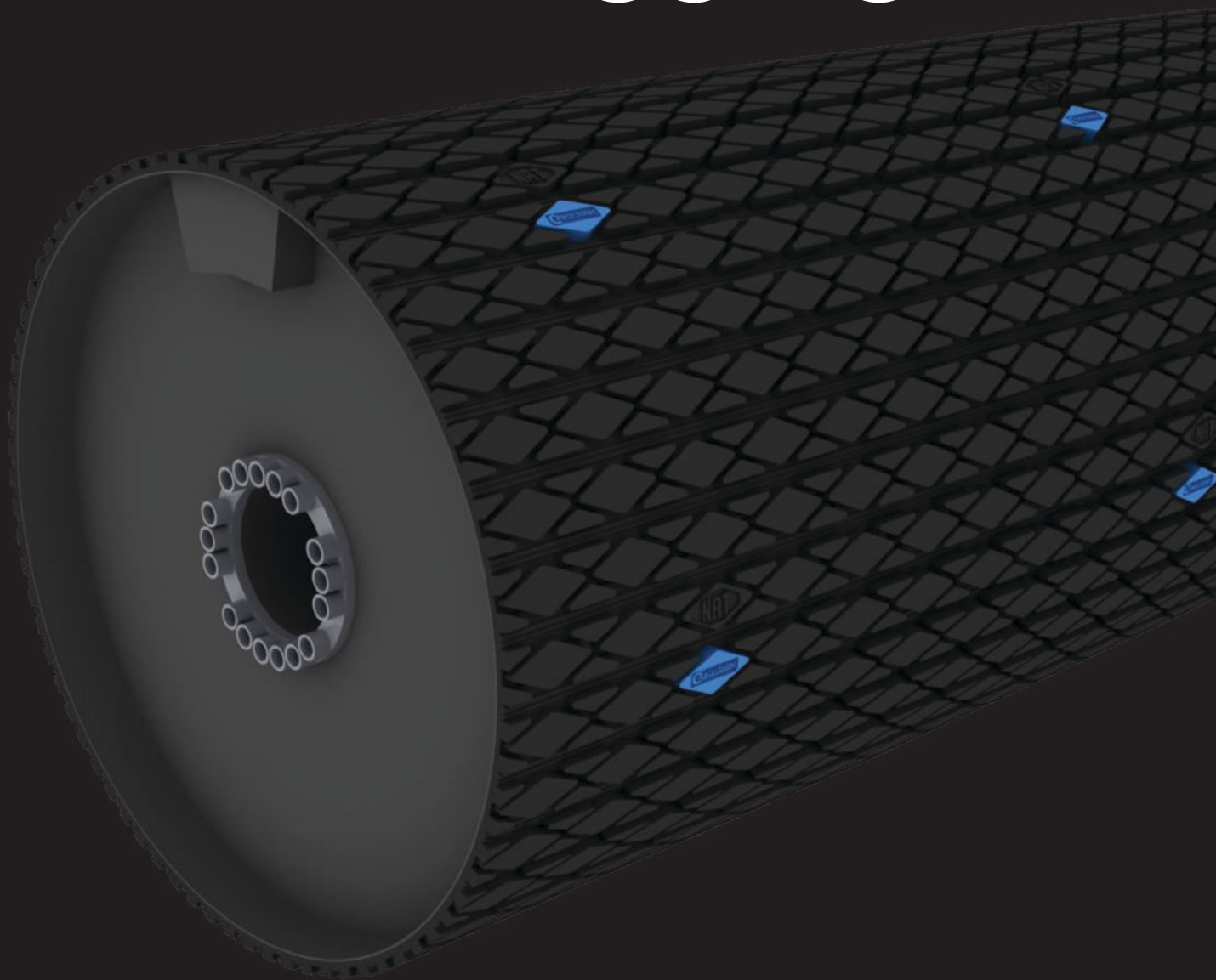




Crowned Diamond Rubber Lagging



Engineered to Perform

Elastotec Crowned Diamond Rubber Lagging is designed to provide improved belt tracking in low to medium tension applications where existing rubber lagging is experiencing problems.

Strips are custom made to suit pulley diameter and face width. Tapered end pieces are vulcanised to a flat central section in a ratio of approximately 1/3 - 1/3 - 1/3.

Application

Elastotec Crowned Diamond Rubber Lagging is designed for use in low to medium belt tension applications, and can be applied to conveyor drive, tail, snub, bend or take-up pulleys. The lagging can be applied to a flat pulley shell which eliminates the need for machining.

It is used for conveyor system applications in the mining, quarrying, mineral and metal processing industries but can be used on any conveyor pulley.

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 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

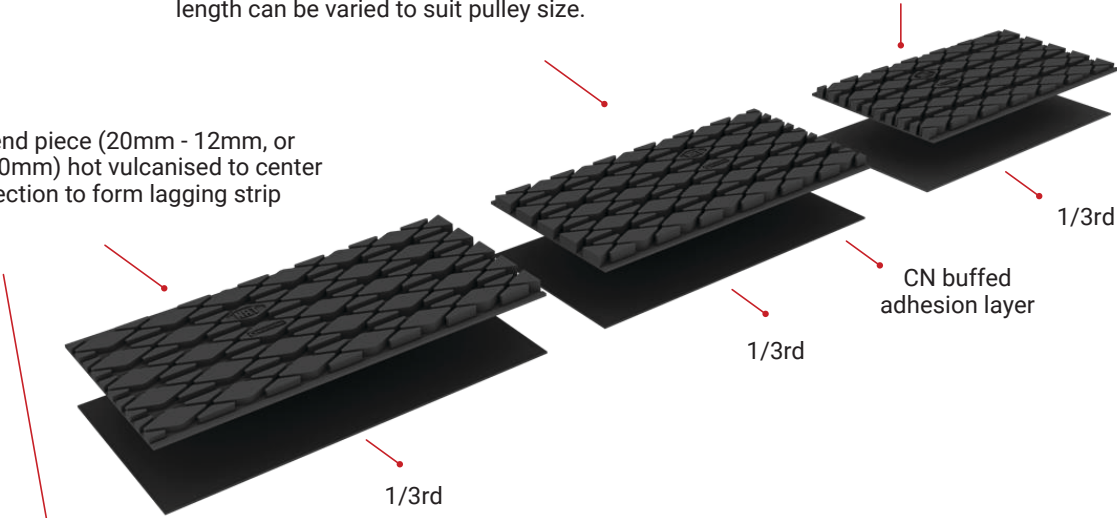
Crowned lagging strips typically have a 1/3rd flat center section and two 1/3rd tapered end sections based on pulley face width.

COLD BONDED

Center lagging section 20mm or 15mm thick length can be varied to suit pulley size.

Tapered end piece extends past the pulley end and is trimmed flush with the shell

Tapered end piece (20mm - 12mm, or 15mm - 10mm) hot vulcanised to center lagging section to form lagging strip

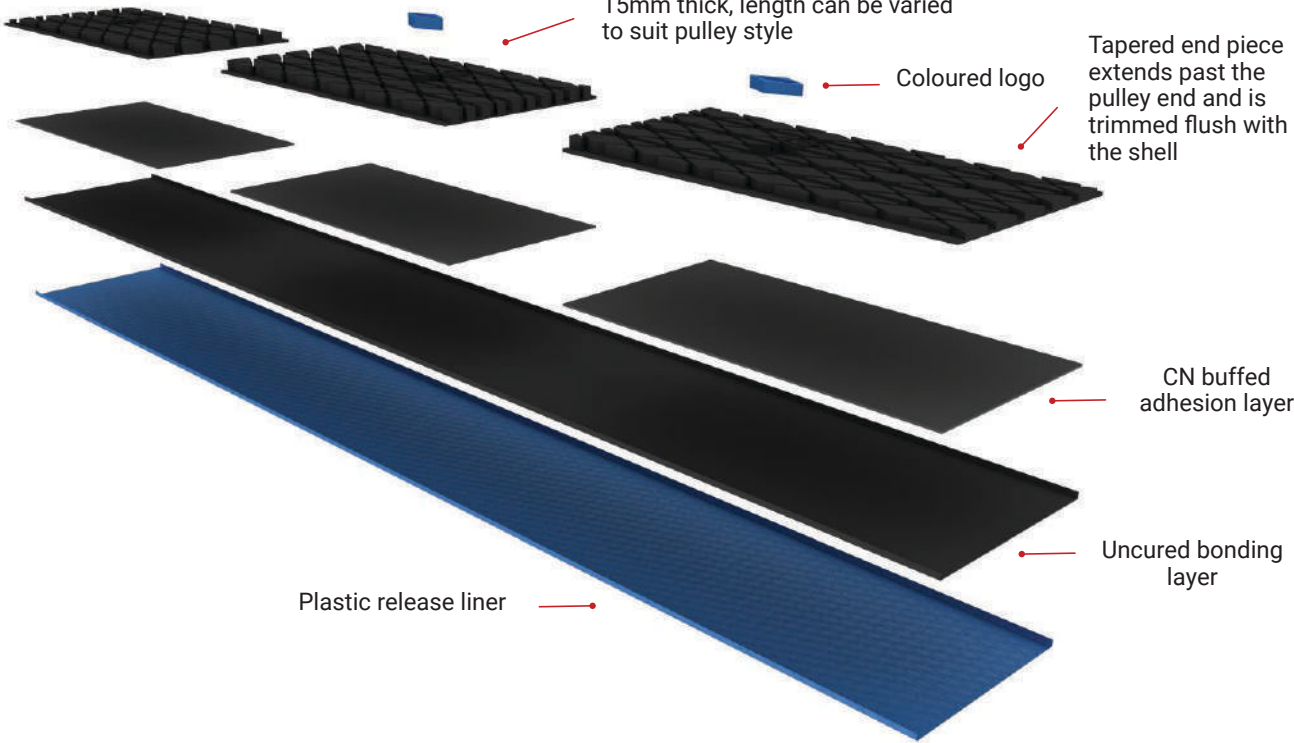


HOT VULCANISED

Center lagging section 20mm or 15mm thick, length can be varied to suit pulley style

Tapered end piece extends past the pulley end and is trimmed flush with the shell

Coloured logo

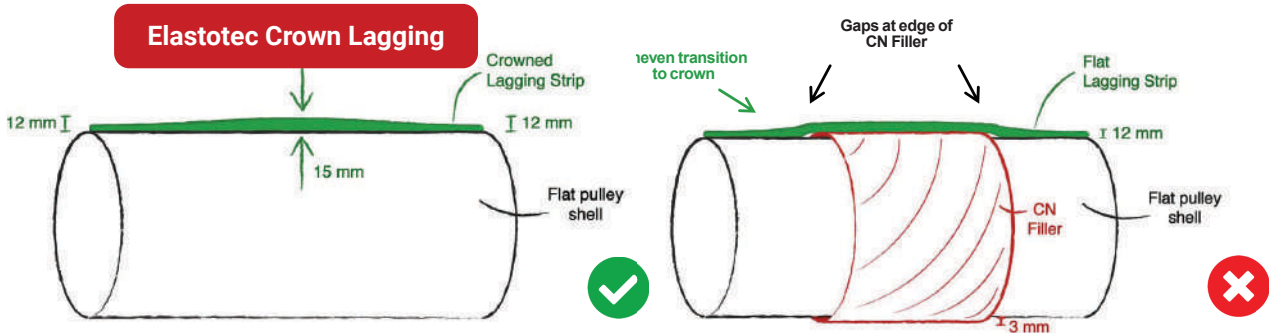


Rubber Specifications

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	60+/-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

Crowned Rubber Lagging Diagram



LAGGING SPECIFICATIONS – CROWNED DIAMOND RUBBER LAGGING

COLD BONDED – NAT

DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH
Crowned Diamond Rubber Lagging 15mm NAT Cold Bond	ELA-CWDR80-N-15P	250mm-252mm	15mm (centre) down to 10mm (ends)	fit to pulley size
Crowned Diamond Rubber Lagging 20mm NAT Cold Bond	ELA-CRW-RL-DIA-N-20	250mm-252mm	20mm (centre) down to 12mm (ends)	fit to pulley size

COLD BONDED – FRAS

DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH
Crowned Diamond Rubber Lagging 15mm FRAS Cold Bond	ELA-CRW-RL-DIA-F-15	250mm-252mm	15mm (centre) down to 10mm (ends)	fit to pulley size
Crowned Diamond Rubber Lagging 20mm FRAS Cold Bond	ELA-CRW-RL-DIA-F-20	250mm-252mm	20mm (centre) down to 12mm (ends)	fit to pulley size

HOT VULCANISED – NAT

DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH
Crowned Diamond Rubber Lagging 15mm NAT Cold Bond	ELA-CRW-RL-DIA-N-15V	251mm-255mm	15mm (centre) down to 10mm (ends)	fit to pulley size
Crowned Diamond Rubber Lagging 20mm NAT Cold Bond	ELA-CRW-RL-DIA-N-20V	251mm-255mm	20mm (centre) down to 12mm (ends)	fit to pulley size

HOT VULCANISED – FRAS

DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH
Crowned Diamond Rubber Lagging 15mm	ELA-CRW-RL-DIA-F-15V	251mm-255mm	15mm (centre) down to 10mm (ends)	fit to pulley size
Crowned Diamond Rubber Lagging 20mm	ELA-CRW-RL-DIA-F-20V	251mm-255mm	20mm (centre) down to 12mm (ends)	fit to pulley size

LAGGING SPECIFICATIONS – THICKNESS OPTIONS



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.

Example:

Strip: Crowned Rubber Lagging for pulley face width 1500mm natural rubber, hot vulcanised:
ELA-CRW-RL-DIA-N-20V-01600

Recommendation for lagging thicknesses suitability for pulley diameters:

- 15mm, for pulleys 600mm diameter or more
- 20mm, for pulleys 1400 mm diameter or more



Storage Recommendations

- Ⓢ Stock usage based on a first-in first-out method (FIFO).
- Ⓢ The storage room for lagging must be cool, dry and dust-free.
- Ⓢ Avoid storage places near sources of ozone generating equipment.
- Ⓢ Do not store outside.
- Ⓢ Avoid storage in direct sunlight and strong artificial light as UV light can damage the products and may lead to a premature ageing.
- Ⓢ Under no circumstances should fuels, lubricants, acids, disinfectants, solvents or other chemicals be stored in the same storage area.
- Ⓢ Keep the storage place clean. Protect the material from dust, water etc. with suitable coverings.
- Ⓢ Allow 24 hours before use when lagging is removed from cold storage.

Shelf Life

COLD BONDING LAGGING AND WEAR PANELS

- Ⓢ Stored <25°C 3 years shelf life
- Ⓢ Light buffing of bonding surfaces is recommended if over 4 months from production date.

HOT VULCANISED LAGGING AND WEAR PANELS

- Ⓢ <7°C and away from UV and ozone generating equipment 12 months. Products stored for longer than 6 months will need to be re-tested for adhesion before being used, and the recommended shelf life is 12 months.


ADHESIVES AND PRIMERS


- Ⓢ Store in flammable goods cabinet
- Ⓢ Stored <25°C.
- Ⓢ Shelf life:
 - Primers: 2 years
 - Cold bonding adhesive: 2 years
 - Hot vulcanising adhesive: 12 months
 - Direct bond adhesive: 2 years


Products stored under the above conditions for longer periods of time than recommended need to be re-tested for adhesion before being used.






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