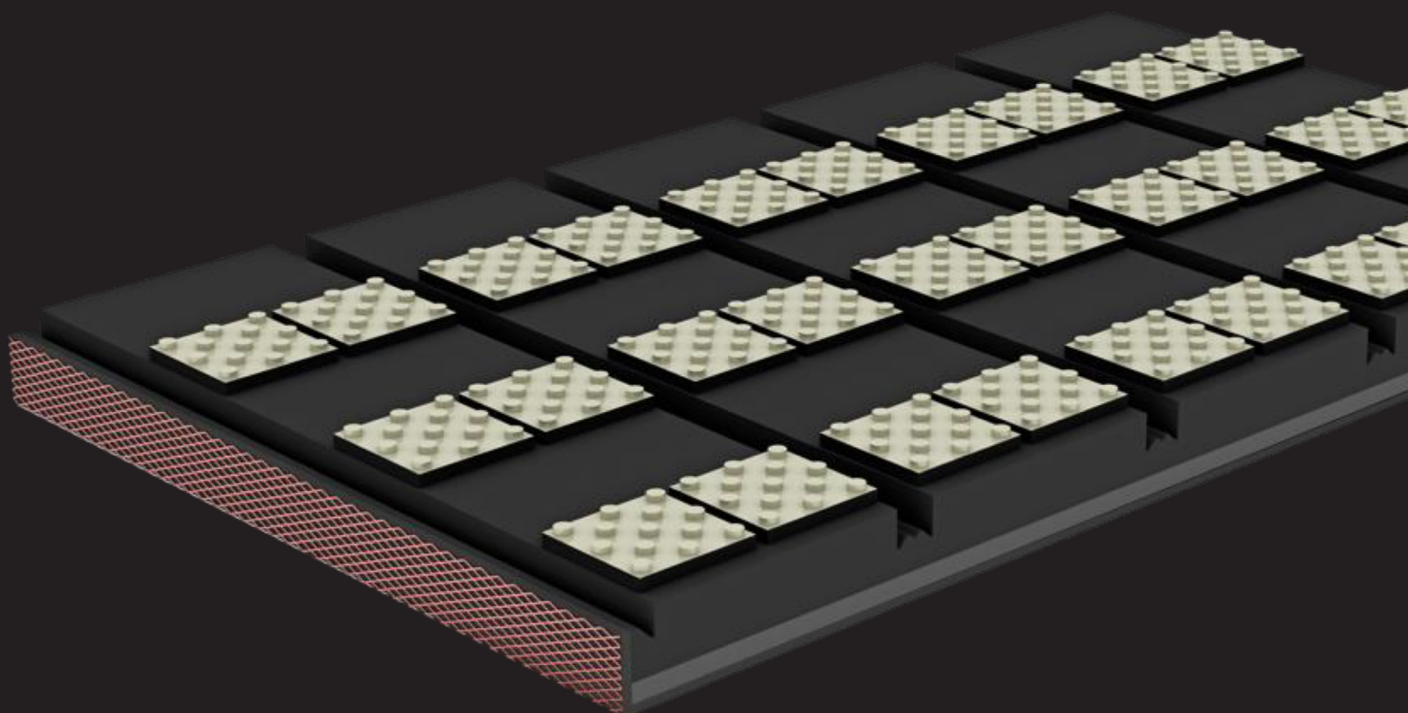




Double Row 40% Ceramic Lagging



Engineered to Perform

Elastotec Double Row 40% Ceramic Lagging can be held in stock, and then cut to strip lengths that will suit any pulley face width.

Elastotec Double Row 40% Ceramic Lagging is available in various thicknesses and rubber compounds. The 30mm spacing between ceramic tiles lengthwise allows it to be cut to length to suit any pulley face width. This avoids having a custom length strip required rubber ends for each pulley face width. This significantly reduces lead time, as rolls can be held in stock rather than waiting for strip lengths to be manufactured and delivered to suit each pulley.

Application

This product is designed for use in low and medium belt tension applications, and can be applied to conveyor drive, tail, snub, bend or take-up pulleys. All Bulk Roll products are designed for strips to be cut slightly longer than the pulley face width, and then trimmed flush with the edge of the pulley shell during application to improve adhesion and sealing of the pulley shell. All products can be used for conveyor system applications in the mining, quarrying, minerals, metal processing, and agricultural industries.

Key Features and Benefits

- Can be supplied as a bulk roll to drastically reduce lead time.
- Bulk rolls are packaged on a standard pallet for safe and efficient transport, storage, and handling.
- Strips can be quickly cut to size to suit any pulley face width, with all designs finishing flush with the edge of the pulley after trimming to improve edge sealing.
- The 40% ceramic coverage provides increased grip and wear resistance for applications where Rubber Lagging is experiencing slippage.
- Options for various rubber compounds such as NAT/SBR and FRAS/MSHA, and thicknesses from 12mm - 20mm.
- Precision moulded at 250mm wide and supplied as a roll for quick and easy installation.
- No tile debonding from rubber backing, and available in both Dimpled tiles for Drive pulleys, or Plain tiles for Non-Drive pulleys.
- Available for Cold Bond and Hot Vulcanised applications.

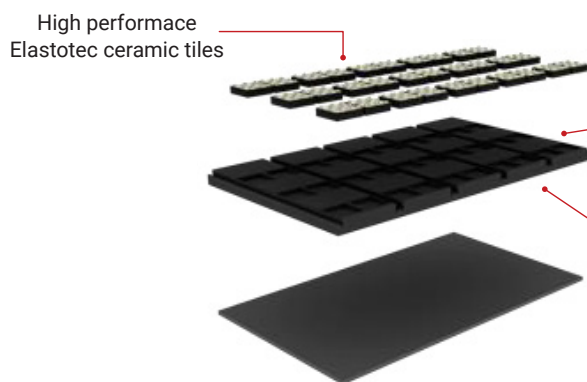


Design

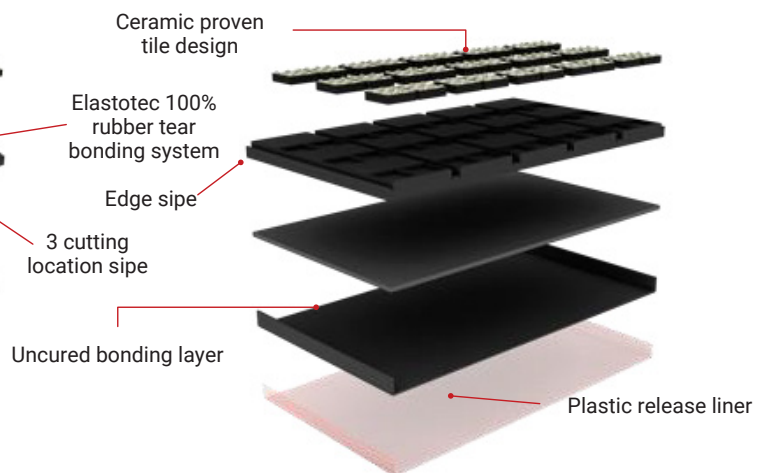
Elastotec Double Row 40% Ceramic Lagging is designed to improve friction, and fit any pulley face width without cutting through tiles.

Ceramic coverage of 40% improves friction and wear resistance in light and medium duty applications. The rubber spacing between each tile allows for strips to be cut to suit any pulley face width, and the lagging will go all the way to the edge of the pulley shell to improve adhesion and edge sealing.

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)	70mm3	150mm3
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/cm3	3.7
Vickers hardness HV (10)	1000 plus
Flexural strength (Mpa)	300
Compressive strength (Mpa)	1800
Fracture Toughness (Mpa m1/2)	3.5



LAGGING SPECIFICATIONS – DOUBLE ROW 40% CERAMIC LAGGING

COLD BONDED – NAT

DIMENSIONS DIMPLE TILES

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/lm
Double Row 40% Ceramic Lagging 12mm	ELA-DRC40-N-12K	250mm-252mm	12mm-13mm	58.2m	5.55kg
Double Row 40% Ceramic Lagging 15mm	ELA-DRC40-N-15K	250mm-252mm	15mm-16mm	48.5m	6.21kg
Double Row 40% Ceramic Lagging 20mm	ELA-DRC40-N-20K	250mm-252mm	20mm-21mm	38.8m	6.62kg

DIMENSIONS PLAIN TILES

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/lm
Double Row 40% Ceramic Lagging 12mm	ELA-DRC40-N-12P	250mm-252mm	12mm-13mm	58.2m	4.10kg
Double Row 40% Ceramic Lagging 15mm	ELA-DRC40-N-15P	250mm-252mm	15mm-16mm	48.5m	4.74kg
Double Row 40% Ceramic Lagging 20mm	ELA-DRC40-N-20P	250mm-252mm	20mm-21mm	38.8m	5.13kg

COLD BONDED – FRAS

DIMENSIONS DIMPLE TILES

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/lm
Double Row 40% Ceramic Lagging 12mm	ELA-DRC40-F-12K	250mm-252mm	12mm-13mm	58.2m	4.19kg
Double Row 40% Ceramic Lagging 15mm	ELA-DRC40-F-15K	250mm-252mm	15mm-16mm	48.5m	4.49kg
Double Row 40% Ceramic Lagging 20mm	ELA-DRC40-F-20K	250mm-252mm	20mm-21mm	38.8m	5.29kg

DIMENSIONS PLAIN TILES

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/lm
Double Row 40% Ceramic Lagging 12mm	ELA-DRC40-F-12P	250mm-252mm	12mm-13mm	58.2m	4.39kg
Double Row 40% Ceramic Lagging 15mm	ELA-DRC40-F-15P	250mm-252mm	15mm-16mm	48.5m	4.69kg
Double Row 40% Ceramic Lagging 20mm	ELA-DRC40-F-20P	250mm-252mm	20mm-21mm	38.8m	5.49kg

Product code for different lengths: Add 5-digit number to indicating length in mm.

Example

Roll: 12mm 58.2 m roll product code: ELA-DRC40-N-12K-58200

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

Ceramic Lagging with thickness >15mm only recommended

for pulleys with diameters over 600mm.

LAGGING SPECIFICATIONS – DOUBLE ROW 40% CERAMIC LAGGING

HOT VULCANISED – NAT

DIMENSIONS DIMPLE TILES

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/lm
Double Row 40% Ceramic Lagging 12mm	ELA-DRC40-N-12KV	251mm-255mm	13.2mm-14.6mm	9.7m	5.88kg
Double Row 40% Ceramic Lagging 15mm	ELA-DRC40-N-15KV	251mm-255mm	16.2mm-17.6mm	9.7m	6.53kg
Double Row 40% Ceramic Lagging 20mm	ELA-DRC40-N-20KV	251mm-255mm	21.2mm-22.6mm	9.7m	6.92kg

DIMENSIONS PLAIN TILES

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/lm
Double Row 40% Ceramic Lagging 12mm	ELA-DRC40-N-12PV	251mm-255mm	13.2mm-14.6mm	9.7m	6.33kg
Double Row 40% Ceramic Lagging 15mm	ELA-DRC40-N-15PV	251mm-255mm	16.2mm-17.6mm	9.7m	6.98kg
Double Row 40% Ceramic Lagging 20mm	ELA-DRC40-N-20PV	251mm-255mm	21.2mm-22.6mm	9.7m	7.37kg

HOT VULCANISED – FRAS

DIMENSIONS DIMPLE TILES

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/lm
Double Row 40% Ceramic Lagging 12mm	ELA-DRC40-F-12KV	251mm-255mm	13.2mm-14.6mm	9.7m	6.08kg
Double Row 40% Ceramic Lagging 15mm	ELA-DRC40-F-15KV	251mm-255mm	16.2mm-17.6mm	9.7m	6.38kg
Double Row 40% Ceramic Lagging 20mm	ELA-DRC40-F-20KV	251mm-255mm	21.2mm-22.6mm	9.7m	7.18kg

DIMENSIONS PLAIN TILES

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/lm
Double Row 40% Ceramic Lagging 12mm	ELA-DRC40-F-12PV	251mm-255mm	13.2mm-14.6mm	9.7m	6.51kg
Double Row 40% Ceramic Lagging 15mm	ELA-DRC40-F-15PV	251mm-255mm	16.2mm-17.6mm	9.7m	6.81kg
Double Row 40% Ceramic Lagging 20mm	ELA-DRC40-F-20PV	251mm-255mm	21.2mm-22.6mm	9.7m	7.61kg

Product code for different lengths: Add 5-digit number to indicating length in mm.

Example

Roll: 12mm 9.7m roll product code:

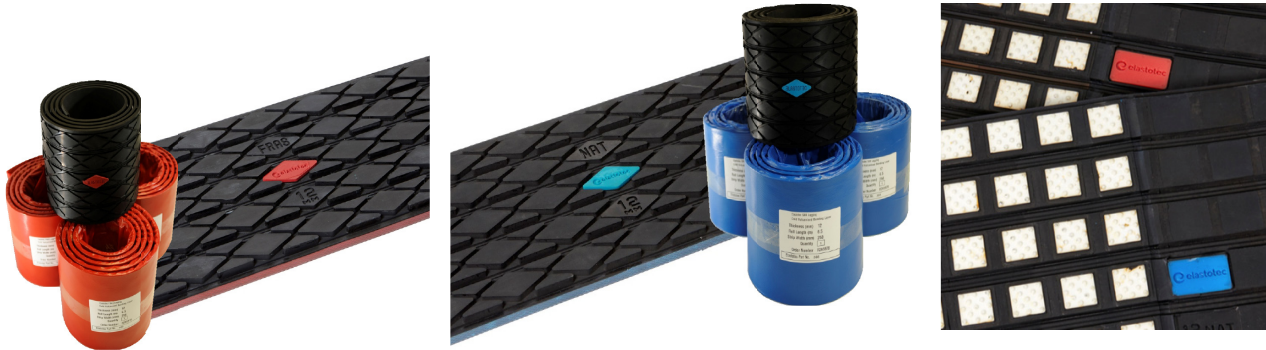
ELA-DRC40-N-12KV-09700

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

Ceramic Lagging with thickness >15mm only recommended for pulleys with diameters over 600mm.

NAT AND FRAS

Elastotec Rubber and Ceramic Laggings are available in both SBR (NAT) and FRAS approved compounds. FRAS lagging is MDG3608 certified and MSHA accepted, made of a fire resistant and antistatic compound that is primarily used in applications where there is a risk of fire and/or explosion as a safety precaution. These applications include underground coal mines, power stations, grain handling facilities and sugar terminals. Elastotec uses blue coloured inserts to identify SBR (NAT) rubber products and red coloured inserts to identify FRAS rubber products.



ELASTOTEC DIAMOND RUBBER LAGGING CAN BE APPLIED TO PULLEYS BY COLD BONDING OR BY HOT VULCANISATION.

ELASTOTEC COLD BOND LAGGING

Elastotec Diamond Rubber Lagging Cold Bonding Rubber Lagging has the CN buffed bonding layer packed in plastic to protect and keep it fresh and free from contamination until application to the pulley.

A rubber tear bond is achieved by using Elastotec Metal Primer 2205 and Elastotec Cold Bonding Adhesive to chemically interlock with the CN bonding layer, making a strong interface between the layers.

An Elastotec approved applicator using the Elastotec application procedure will achieve reliable adhesion levels that exceed the 9 N/mm industry standard and are typically at 12 N/mm.

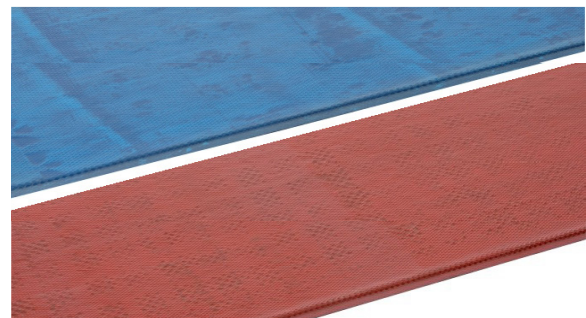


ELASTOTEC HOT VULCANISING LAGGING

Elastotec Diamond Rubber Lagging Hot Vulcanising Rubber Lagging has a 1.2mm thick uncured rubber layer applied to the back and sides of the lagging.

Hot Vulcanising Lagging is supplied packed in plastic to protect and keep the uncured bonding layer fresh and free from contamination until application to the pulley.

Application by a trained Elastotec approved applicator using the Elastotec application procedures will guarantee a 100% rubber tear bond between the lagging and the pulley shell with typical adhesion values exceeding 20 N/mm.



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

DIRECT BOND LAGGING AND WEAR PANELS

- ☞ Stored <25°C 5 years shelf life
- ☞ Inspect and evaluate condition of backing tape after 5 years

COLD BOND 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

- ☞ Stored <7°C 12 months shelf life
- ☞ Store away from UV and ozone generating equipment
- ☞ Products stored for longer than 12 months require adhesion testing before use

ADHESIVES AND PRIMERS

- ☞ Store in flammable goods cabinet
- ☞ Shelf life Stored <25°C
 - Primers: 2 years
 - Cold Bonding adhesive: 2 years
 - Direct Bond adhesive: 2 years
- ☞ Shelf life Stored <7°C
 - Hot vulcanising adhesive: 12 months

IMPORTANT: For HV Rubber Cement stored at <7°C ensure this is brought to room temperature over a minimum of 24 hours before the drums are opened. This is to prevent condensation of water and contamination of the rubber cement.



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