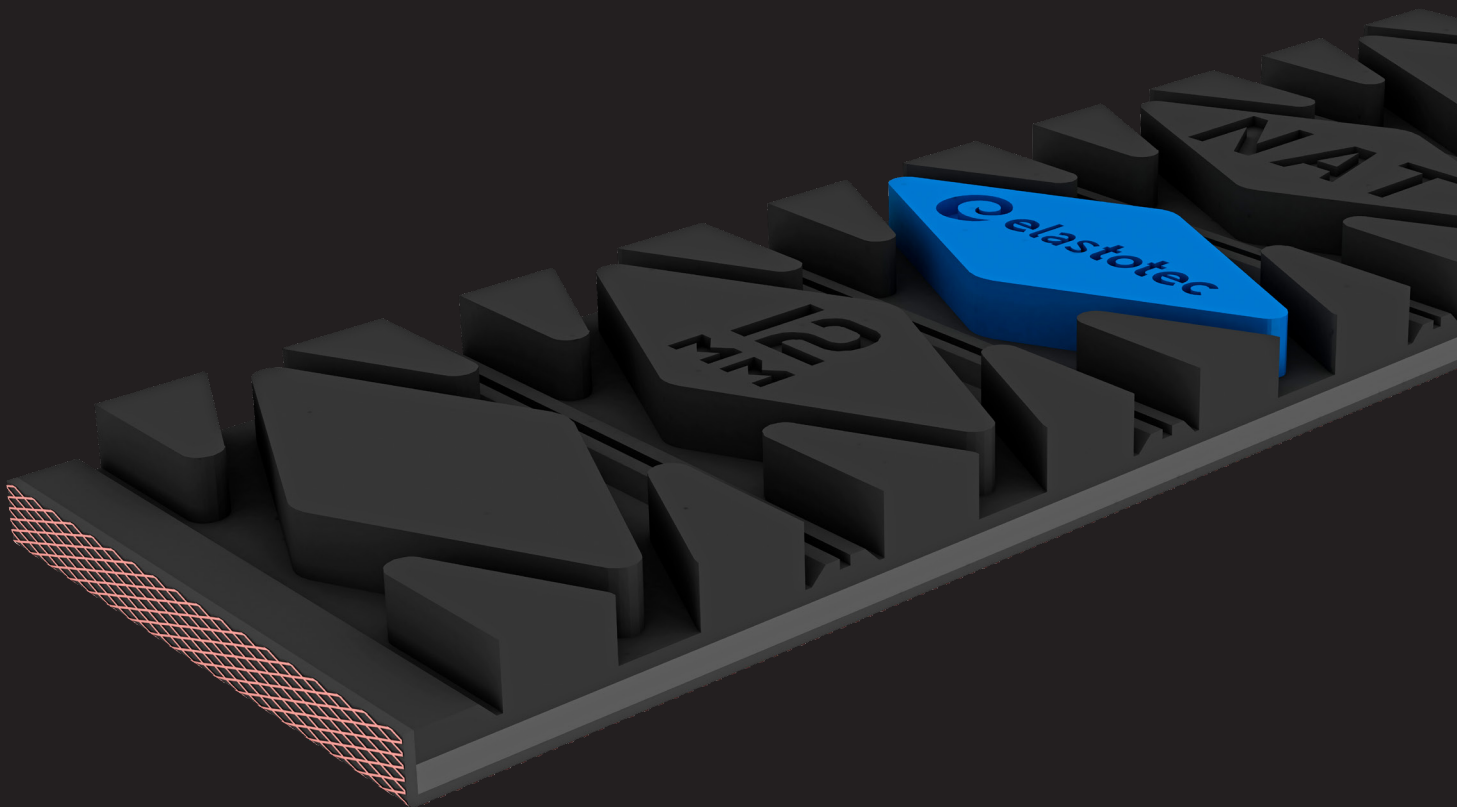




Diamond Rubber Lagging



Engineered to Perform

Diamond Rubber Lagging is popular for increasing grip to bare shell pulleys, and reducing wear and corrosion of the pulley shell.

Elastotec Diamond Rubber Lagging is engineered to provide long service life by providing resistance to outdoor ageing and a high degree of elasticity for enhanced shedding of carry back.

Our Diamond Rubber Lagging has excellent wet and dry abrasion resistance, and strong protection for the conveyor belt. Our custom in-house rubber mixing process uses the highest quality materials to ensure the most durable rubber lagging is available.

Application

Elastotec Diamond Rubber Lagging 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. It is used for conveyor system applications in the mining, quarrying, mineral, metal processing and agricultural industries.

Key Features and Benefits

-  Highly abrasion resistant rubber prevents wear on pulley shell and provides a positive drive between pulley and belt.
-  Deep diamond and longitudinal grooves provide flexibility for shedding material and keeping engagement with flexible belts reducing the risk of slip.
-  Not suitable for high tension applications due to flexibility being more prone to fatigue.
-  Options for various rubber compounds and thicknesses from 8mm – 25mm.
-  Precision moulded 250mm strip width in a manageable size and weight makes easy installation.
-  Physical properties remain stable with age and a wide range of operating temperatures.
-  Available for Cold Bond and Hot Vulcanised applications.

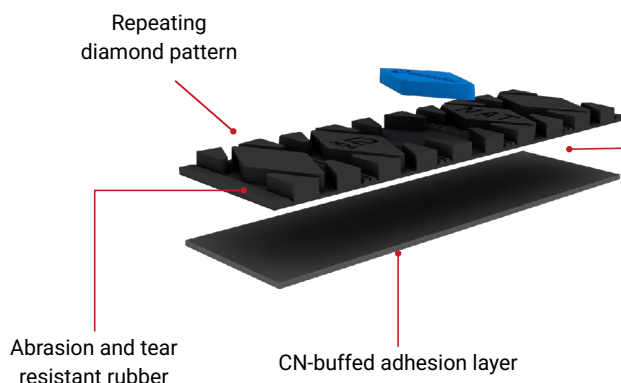


Design

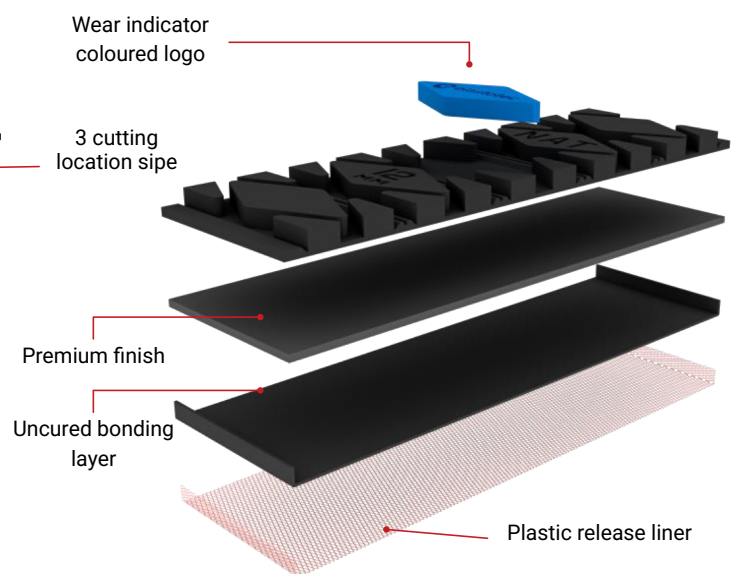
Elastotec Diamond Rubber Lagging is 250mm wide to ensure easy handling and application.

It is supplied in long roll lengths that fit standard sized pallets to eliminate waste and for cost effective transportation and storage. It can be supplied in thicknesses from 8mm to 25mm.

COLD BONDED



HOT VULCANISED



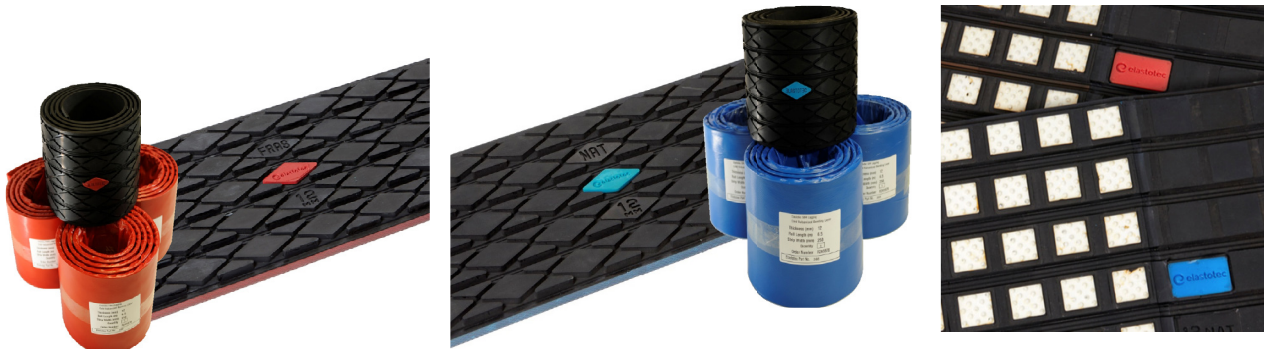
Rubber Specifications

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	60+/-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

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.

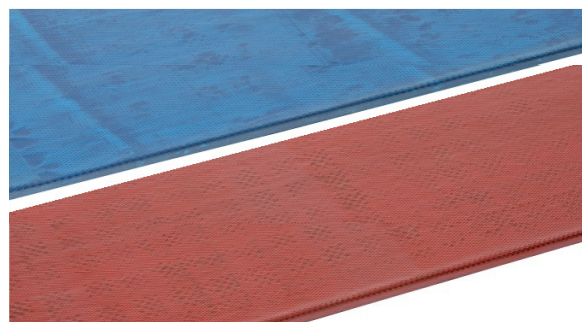


ELASTOTEC HOT VULCANISING LAGGING

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.



LAGGING SPECIFICATIONS – DIAMOND RUBBER LAGGING

COLD BONDED – NAT

DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
Diamond Rubber Lagging 8mm	ELA-RL-DIA-N-8	250mm-252mm	8mm-9mm	95m	2.45kg
Diamond Rubber Lagging 10mm	ELA-RL-DIA-N-10	250mm-252mm	10mm-11mm	80m	2.78kg
Diamond Rubber Lagging 12mm	ELA-RL-DIA-N-12	250mm-252mm	12mm-13mm	65m	3.93kg
Diamond Rubber Lagging 15mm	ELA-RL-DIA-N-15	250mm-252mm	15mm-16mm	50m	4.30kg
Diamond Rubber Lagging 20mm	ELA-RL-DIA-N-20	250mm-252mm	19mm-20mm	40m	5.70kg
Diamond Rubber Lagging 25mm	ELA-RL-DIA-N-25	250mm-252mm	25mm-26mm	30m	7.10kg

COLD BONDED – FRAS

DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
Diamond Rubber Lagging 8mm	ELA-RL-DIA-F-8	250mm-252mm	8mm-9mm	95m	2.66kg
Diamond Rubber Lagging 10mm	ELA-RL-DIA-F-10	250mm-252mm	10mm-11mm	80m	2.98kg
Diamond Rubber Lagging 12mm	ELA-RL-DIA-F-12	250mm-252mm	12mm-13mm	65m	4.13kg
Diamond Rubber Lagging 15mm	ELA-RL-DIA-F-15	250mm-252mm	15mm-16mm	50m	4.50kg
Diamond Rubber Lagging 20mm	ELA-RL-DIA-F-20	250mm-252mm	19mm-20mm	40m	5.90kg
Diamond Rubber Lagging 25mm	ELA-RL-DIA-F-25	250mm-252mm	25mm-26mm	30m	7.30kg

Product code for different lengths: Add 5-digit number indicating length in mm. Example: 12mm 65m roll product code: ELA-RL-DIA-N-12-65000

15mm 1.2m strip product code: ELA-RL-DIA-N-15-01200

For strips always allow 100mm extra length over the pulley face width to have 50mm at each end of overhang.

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



LAGGING SPECIFICATIONS – DIAMOND RUBBER LAGGING

HOT VULCANISED – NAT

DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/lm
Diamond Rubber Lagging 8mm	ELA-RL-DIA-N-8V	252mm-255mm	9.2mm-10.6mm	9.7m	2.70kg
Diamond Rubber Lagging 10mm	ELA-RL-DIA-N-10V	252mm-255mm	11.2mm-12.6mm	9.7m	3.00kg
Diamond Rubber Lagging 12mm	ELA-RL-DIA-N-12V	252mm-255mm	13.2mm-14.6mm	9.7m	4.15kg
Diamond Rubber Lagging 15mm	ELA-RL-DIA-N-15V	252mm-255mm	16.2mm-17.6mm	9.7m	4.52kg
Diamond Rubber Lagging 20mm	ELA-RL-DIA-N-20V	252mm-255mm	20.2mm-21.6mm	9.7m	5.92kg
Diamond Rubber Lagging 25mm	ELA-RL-DIA-N-25V	252mm-255mm	26.2mm-27.6mm	9.7m	7.32kg

HOT VULCANISED – NAT

DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/lm
Diamond Rubber Lagging 8mm	ELA-RL-DIA-F-8V	252mm-255mm	9.2mm-10.6mm	9.7m	2.95kg
Diamond Rubber Lagging 10mm	ELA-RL-DIA-F-10V	252mm-255mm	11.2mm-12.6mm	9.7m	3.25kg
Diamond Rubber Lagging 12mm	ELA-RL-DIA-F-12V	252mm-255mm	13.2mm-14.6mm	9.7m	4.40kg
Diamond Rubber Lagging 15mm	ELA-RL-DIA-F-15V	252mm-255mm	16.2mm-17.6mm	9.7m	4.80kg
Diamond Rubber Lagging 20mm	ELA-RL-DIA-F-20V	252mm-255mm	20.2mm-21.6mm	9.7m	6.10kg
Diamond Rubber Lagging 25mm	ELA-RL-DIA-F-25V	252mm-255mm	26.2mm-27.6mm	9.7m	7.55kg

Product code for different lengths: Add 5-digit number indicating length in mm. Example: 12mm 9.7m roll product code: ELA-RL-DIA-N-12V-09700

15mm 1.2m strip product code: ELA-RL-DIA-N-15V-01200

For strips always allow 100mm extra length over the pulley face width to have 50mm at each end of overhang.

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

Recommendation for lagging thicknesses suitability for pulley diameters

8mm, 10mm and 12mm, for pulley diameters 350mm and larger

15mm, for pulley diameters 600mm and larger

20mm, for pulley diameters 1000mm and larger

25mm, for pulley diameters 1400mm and larger



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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