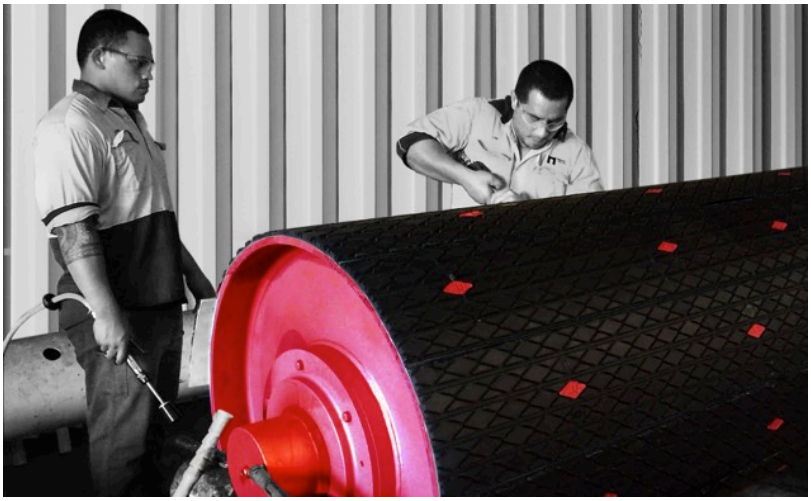
DIAMOND RUBBER LAGGING

elastotec
ENGINEERED TO PERFORM

DIAMOND RUBBER LAGGING



DESCRIPTION

Diamond Rubber Lagging is popular for increasing grip 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 available.

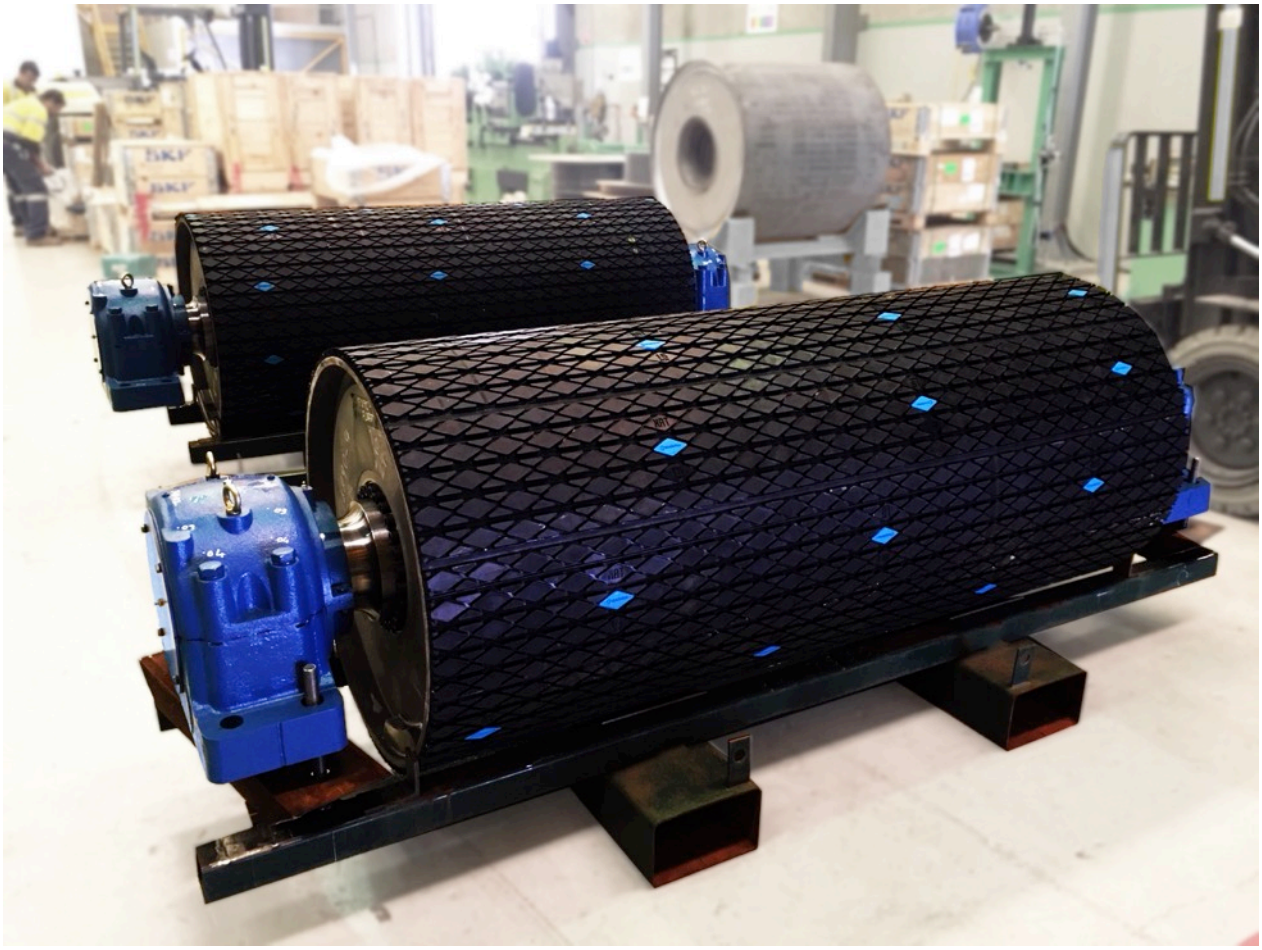
APPLICATION

Elastotec Diamond Rubber Lagging is designed for use in 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.

DIAMOND RUBBER LAGGING

KEY FEATURES AND BENEFITS

- ✓ Highly abrasion resistant rubber prevents wear on pulley shell and provides a positive drive between pulley and belt.
- ✓ 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.



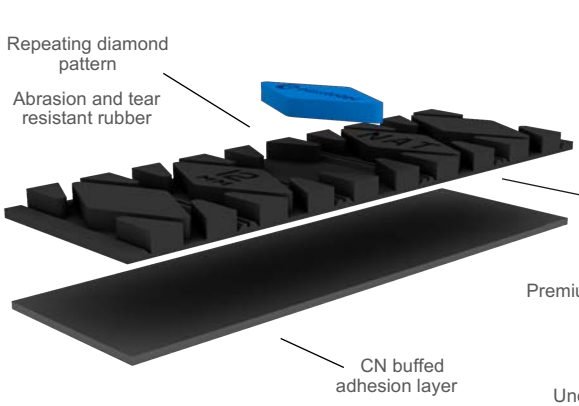
DIAMOND RUBBER LAGGING

DESIGN

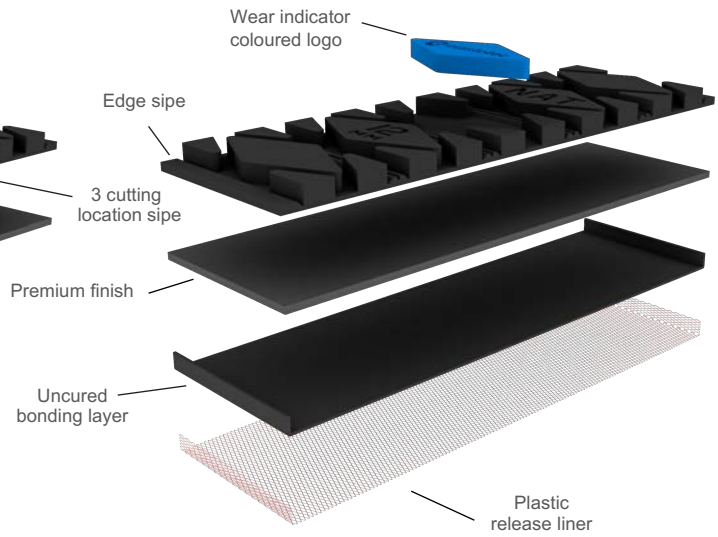
Elastotec Diamond Rubber Lagging is 250mm wide to ensure easy handling and application.

It is supplied in long roll lengths that fit on 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



DIAMOND RUBBER LAGGING

RUBBER SPECIFICATIONS

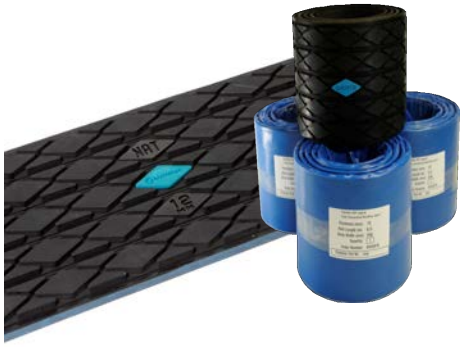
Typical values

	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^3	150mm^3
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

DIAMOND RUBBER LAGGING

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 lagging can be applied to pulleys by cold bonding or by hot vulcanisation.

ELASTOTEC COLD BONDING RUBBER LAGGING

Elastotec 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.

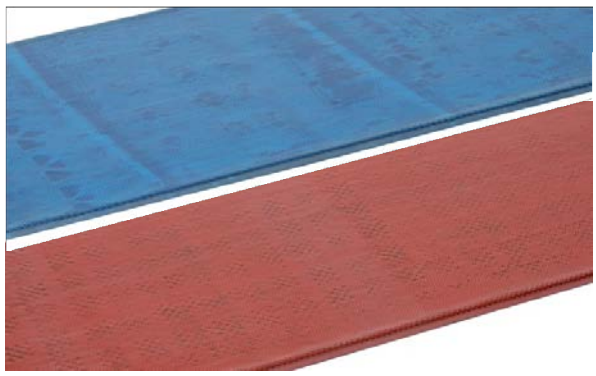
An Elastotec approved applicator using the Elastotec application procedure will achieve reliable adhesion levels that exceed the 9 N/mm industry standard and are typically at 12 N/mm.

ELASTOTEC HOT VULCANISING RUBBER LAGGING

Elastotec 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
Rubber Lagging 8mm	ELA-RL-DIA-N-8	249mm-251mm	8mm-9mm	95m	2.45kg
Rubber Lagging 10mm	ELA-RL-DIA-N-10	249mm-251mm	10mm-11mm	80m	2.78kg
Rubber Lagging 12mm	ELA-RL-DIA-N-12	249mm-251mm	12mm-13mm	65m	3.93kg
Rubber Lagging 15mm	ELA-RL-DIA-N-15	249mm-251mm	15mm-16mm	50m	4.30kg
Rubber Lagging 20mm	ELA-RL-DIA-N-20	249mm-251mm	19mm-20mm	40m	5.70kg
Rubber Lagging 25mm	ELA-RL-DIA-N-25	249mm-251mm	24mm-25mm	30m	7.10kg

COLD BONDED – FRAS

DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
Rubber Lagging 8mm	ELA-RL-DIA-F-8	249mm-251mm	8mm-9mm	95m	2.66kg
Rubber Lagging 10mm	ELA-RL-DIA-F-10	249mm-251mm	10mm-11mm	80m	2.98kg
Rubber Lagging 12mm	ELA-RL-DIA-F-12	249mm-251mm	12mm-13mm	65m	4.13kg
Rubber Lagging 15mm	ELA-RL-DIA-F-15	249mm-251mm	15mm-16mm	50m	4.50kg
Rubber Lagging 20mm	ELA-RL-DIA-F-20	249mm-251mm	19mm-20mm	40m	5.90kg
Rubber Lagging 25mm	ELA-RL-DIA-F-25	249mm-251mm	24mm-25mm	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.

Rubber Lagging with thickness >15mm only recommended for pulleys with diameters over 400mm.

LAGGING SPECIFICATIONS – DIAMOND RUBBER LAGGING

HOT VULCANISED – NAT

DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
Rubber Lagging 8mm	ELA-RL-DIA-N-8V	249mm-251mm	8mm-9mm	9.7m	2.70kg
Rubber Lagging 10mm	ELA-RL-DIA-N-10V	249mm-251mm	10mm-11mm	9.7m	3.00kg
Rubber Lagging 12mm	ELA-RL-DIA-N-12V	249mm-251mm	12mm-13mm	9.7m	4.15kg
Rubber Lagging 15mm	ELA-RL-DIA-N-15V	249mm-251mm	15mm-16mm	9.7m	4.52kg
Rubber Lagging 20mm	ELA-RL-DIA-N-20V	249mm-251mm	19mm-20mm	9.7m	5.92kg
Rubber Lagging 25mm	ELA-RL-DIA-N-25V	249mm-251mm	24mm-25mm	9.7m	7.32kg

HOT VULCANISED – FRAS

DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
Rubber Lagging 8mm	ELA-RL-DIA-F-8V	249mm-251mm	8mm-9mm	9.7m	2.95kg
Rubber Lagging 10mm	ELA-RL-DIA-F-10V	249mm-251mm	10mm-11mm	9.7m	3.25kg
Rubber Lagging 12mm	ELA-RL-DIA-F-12V	249mm-251mm	12mm-13mm	9.7m	4.40kg
Rubber Lagging 15mm	ELA-RL-DIA-F-15V	249mm-251mm	15mm-16mm	9.7m	4.80kg
Rubber Lagging 20mm	ELA-RL-DIA-F-20V	249mm-251mm	19mm-20mm	9.7m	6.10kg
Rubber Lagging 25mm	ELA-RL-DIA-F-25V	249mm-251mm	24mm-25mm	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.

Rubber Lagging with thickness >15mm only recommended for pulleys with diameters over 400mm.

HOT AND COLD BONDING

STORAGE

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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For more information, please contact:

+61 2 8987 1922

1/61 Somersby Falls Rd
Somersby NSW 2050
Australia

sales@elastotec.com.au

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