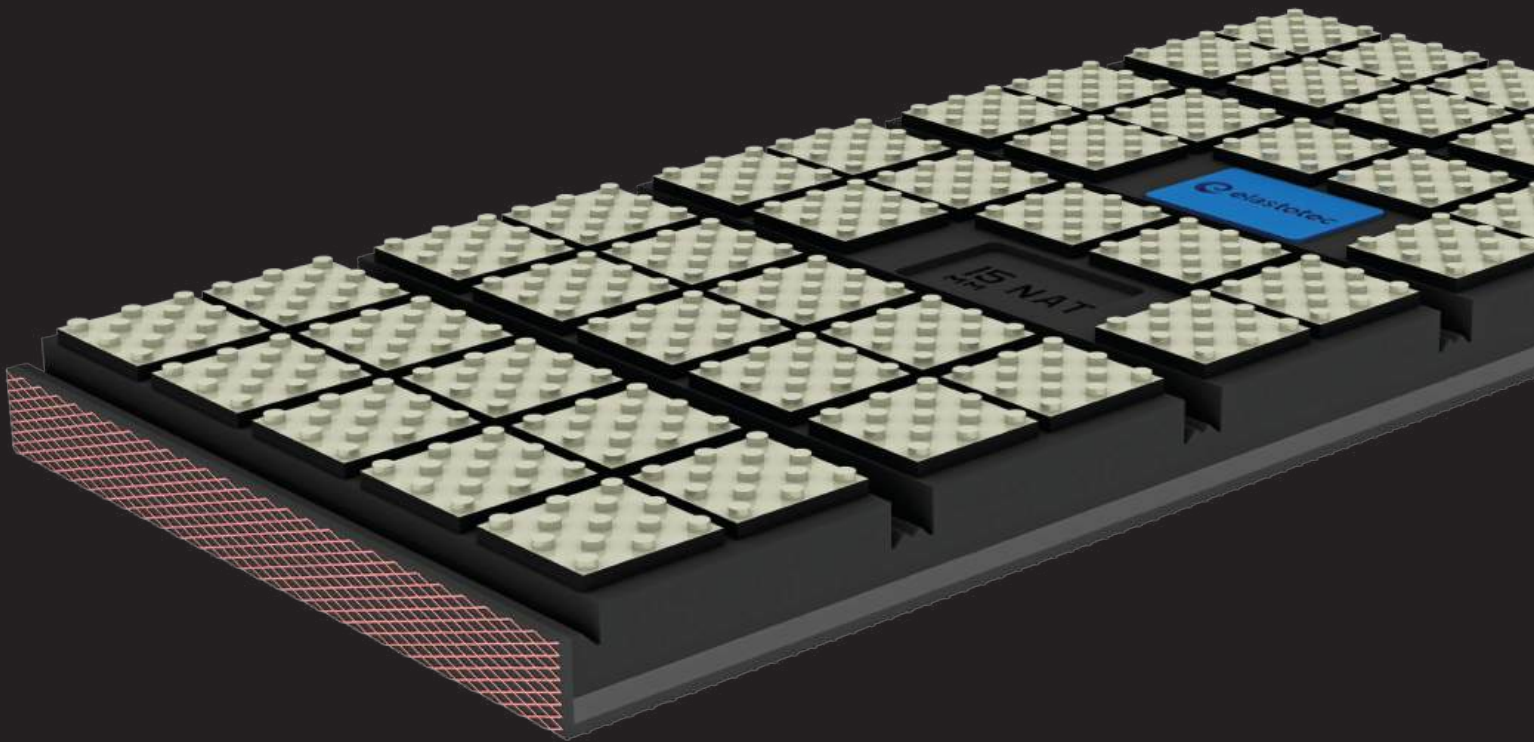




Full 80% Ceramic Lagging



Engineered to Perform

Elastotec Full 80% Ceramic Lagging provides a full ceramic coverage. This lagging is designed for heavy duty stiff steel cord belt applications with high tensions. **The increased tile coverage reduces the shear stress between the lagging and the belt reducing the risk of tile pull out** and protects the rubber backing from physical damage and wear. It is not recommended for flexible fabric belts.

Elastotec Full 80% Ceramic Lagging is used in high-tension applications with dimple ceramic tiles on drive pulleys to provide grip and wear protection and smooth ceramic tiles on non-drive pulleys for wear protection.

Elastotec Full 80% Ceramic Lagging has 80% ceramic coverage.

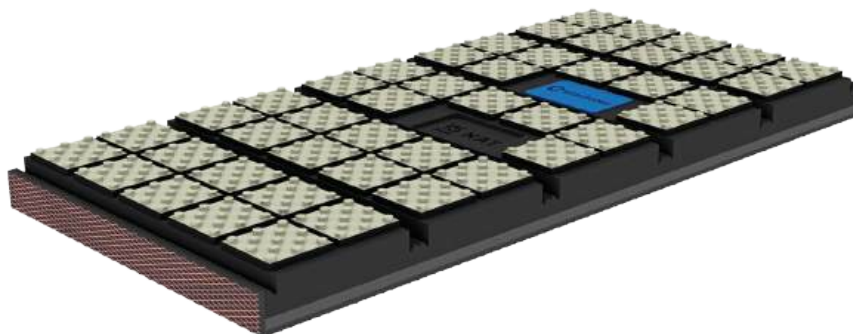
Application

Elastotec Full 80% Ceramic Lagging is designed for use high tension applications and can be applied to conveyor drive, or non drive pulleys. The high ceramic coverage protects the pulley from physical damage from material trapped between lagging and belt as well as keeping the stress between lagging and belt low.

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

Key Features and Benefits

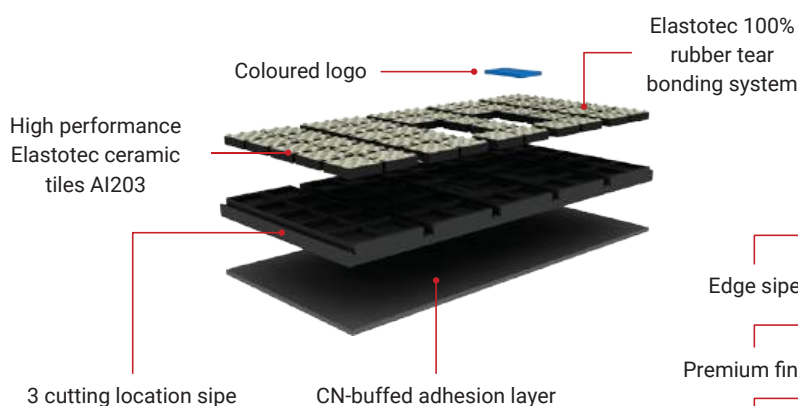
- On drive pulleys: Increased grip and traction for applications where Rubber Lagging is experiencing slippage. Tiles with dimples to be used on drive pulleys.
- On non drive pulleys: Increased abrasion resistance when rubber abrasion resistance is not providing enough service life. Smooth tiles to be used on non drive pulleys.
- Suitable for heavy duty applications, high tension stiff steel cord belts.**
- High ceramic coverage protects the pulley from physical damage from material trapped between lagging and belt as it keeps the stress between lagging and belt low.**
- Maximum ceramic coverage protects the surface from physical damage.



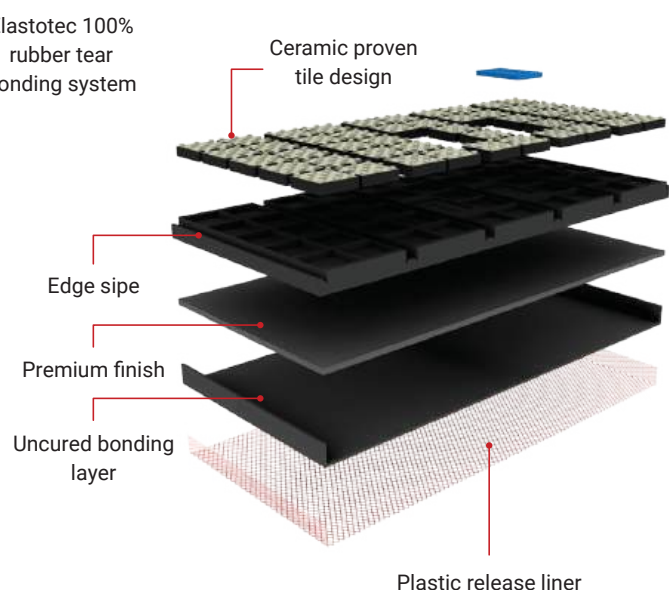
Design

- Available in 250mm wide strips with rubber end pieces to suit the pulley face without having to cut through ceramic.
- Available in highly abrasion resistant SBR for above ground applications and FRAS for underground and high-risk applications. Coloured insert (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.
- Suitable for cold and hot vulcanising applications.**
- For cold bond applications: Buffed CN Bonding layer for increased adhesion.
- For hot vulcanising applications: moulded strip with an 1.2mm uncured bonding layer to back and sides suitable for hot vulcanising onto pulley shell.
- High quality ceramic tiles with Aluminium oxide content typical value 95%.
- Ceramic tiles bonded to rubber on 5 sides to resist tile cracking and debonding. Rubber layer between all tiles sides to provide cushioning and reduce the risk of tile cracking and damage.
- No tile debonding from the rubber backing.
- Can be supplied with dimple tiles for drive applications or smooth tiles for non drive applications.**
- Can be supplied in a range of thicknesses (12,15, 20 and 25mm).
- Suitable for long term service at temperatures from - 40°C to +70°C.

COLD BONDED



HOT VULCANISED



Rubber Specifications

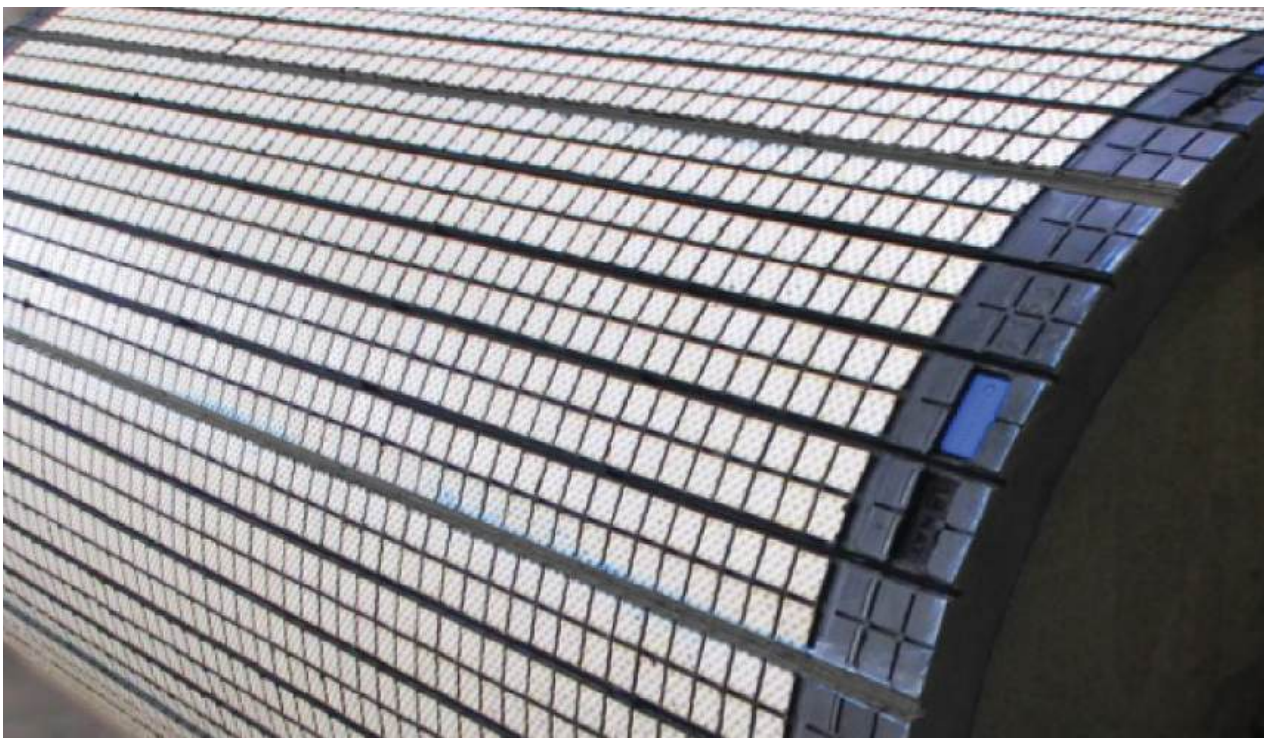
Typical values

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 70hs)	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

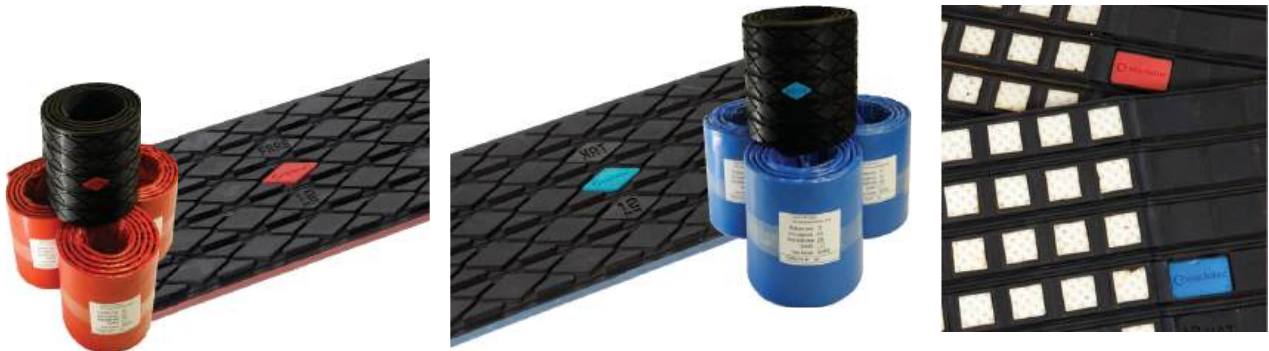
Typical values

Aluminium oxide	95%
Specific gravity g/cm ³	3.7
Vickers hardness HV (10)	1000 plus
Flexural strength (Mpa)	300



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 BOND LAGGING

Elastotec Cold Bonding Rubber Lagging has the CNbuffed 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 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 – FULL CERAMIC 80%

COLD BONDED – NAT

DIMENSIONS DIMPLE TILES

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/lm
Full Ceramic 80% Lagging 12mm	ELA-DRC80-N-12K	250mm-252mm	12.0mm-13.0mm	58.2m	5.90kg
Full Ceramic 80% Lagging 15mm	ELA-DRC80 -N-15K	250mm-252mm	15.0mm-16.0mm	48.5m	6.50kg
Full Ceramic 80% Lagging 20mm	ELA-DRC80-N-20K	250mm-252mm	19.5mm-20.5mm	38.8m	6.90kg
Full Ceramic 80% Lagging 25mm	ELA-DRC80-N-25K	250mm-252mm	24.5mm-25.5mm	Strips only	7.10kg

DIMENSIONS PLAIN TILES

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/lm
Full Ceramic 80% Lagging 12mm	ELA-DRC80-N-12P	250mm-252mm	12.0mm-13.0mm	58.2m	6.30kg
Full Ceramic 80% Lagging 15mm	ELA-DRC80-N-15P	250mm-252mm	15.0mm-16.0mm	48.5m	7.00kg
Full Ceramic 80% Lagging 20mm	ELA-DRC80-N-20P	250mm-252mm	19.5mm-20.5mm	38.8m	7.40kg
Full Ceramic 80% Lagging 25mm	ELA-DRC80-N-25P	250mm-252mm	24.5mm-25.5mm	Strips only	7.60kg

COLD BONDED – FRAS

DIMENSIONS DIMPLE TILES

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/lm
Full Ceramic 80% Lagging 12mm	ELA-DRC80-F-12K	250mm-252mm	12.0mm-13.0mm	58.2m	6.00kg
Full Ceramic 80% Lagging 15mm	ELA-DRC80-F-15K	250mm-252mm	15.0mm-16.0mm	48.5m	6.30kg
Full Ceramic 80% Lagging 20mm	ELA-DRC80-F-20K	250mm-252mm	19.5mm-20.5mm	38.8m	7.20kg
Full Ceramic 80% Lagging 25mm	ELA-DRC80-F-25K	250mm-252mm	24.5mm-25.5mm	Strips only	7.40kg

DIMENSIONS PLAIN TILES

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/lm
Full Ceramic 80% Lagging 12mm	ELA-DRC80-F-12P	250mm-252mm	12.0mm-13.0mm	58.2m	6.50kg
Full Ceramic 80% Lagging 15mm	ELA-DRC80-F-15P	250mm-252mm	15.0mm-16.0mm	48.5m	6.80kg
Full Ceramic 80% Lagging 20mm	ELA-DRC80-F-20P	250mm-252mm	19.5mm-20.5mm	38.8m	7.60kg
Full Ceramic 80% Lagging 25mm	ELA-DRC80-F-25P	250mm-252mm	24.5mm-25.5mm	Strips only	7.80kg

LAGGING SPECIFICATIONS – FULL CERAMIC 80%

HOT VULCANISED – NAT

DIMENSIONS DIMPLE TILES

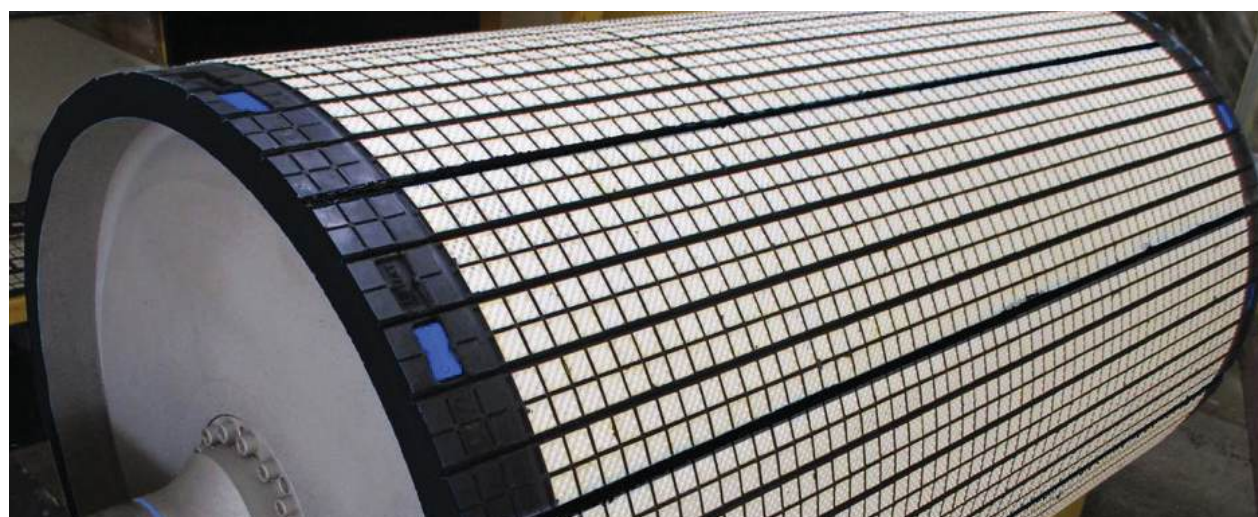
PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/lm
Full Ceramic 80% Lagging 12mm	ELA-DRC80-N-12KV	252mm-255mm	13.2mm-14.6mm	9.7m	5.90kg
Full Ceramic 80% Lagging 15mm	ELA-DRC80-N-15KV	252mm-255mm	16.2mm-17.6mm	9.7m	6.50kg
Full Ceramic 80% Lagging 20mm	ELA-DRC80-N-20KV	252mm-255mm	20.7mm-22.1mm	9.7m	6.90kg
Full Ceramic 80% Lagging 25mm	ELA-DRC80-N-25KV	252mm-255mm	25.7mm-27.1mm	9.7m	7.10kg

DIMENSIONS PLAIN TILES

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/lm
Full Ceramic 80% Lagging 12mm	ELA-DRC80-N-12PV	252mm-255mm	13.2mm-14.6mm	9.7m	6.30kg
Full Ceramic 80% Lagging 15mm	ELA-DRC80-N-15PV	252mm-255mm	16.2mm-17.6mm	9.7m	7.00kg
Full Ceramic 80% Lagging 20mm	ELA-DRC80-N-20PV	252mm-255mm	20.7mm-22.1mm	9.7m	7.40kg
Full Ceramic 80% Lagging 25mm	ELA-DRC80-N-25PV	252mm-255mm	25.7mm-27.1mm	9.7m	7.60kg

DIMENSIONS END PIECES

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
End Piece 12mm	ELA-DR80-END-N-12V	252mm-255mm	11.2mm-12.6mm	130mm	0.60kg
End Piece 15mm	ELA-DR80-END-N-15V	252mm-255mm	14.2mm-15.6mm	130mm	0.70kg
End Piece 20mm	ELA-DR80-END-N-20V	252mm-255mm	18.7mm-20.1mm	130mm	0.80kg
End Piece 25mm	ELA-DR80-END-N-25V	252mm-255mm	23.7mm-25.1mm	130mm	0.90kg



LAGGING SPECIFICATIONS – FULL CERAMIC 80%

HOT VULCANISED – FRAS

DIMENSIONS DIMPLE TILES

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/lm
Full Ceramic 80% Lagging 12mm	ELA-DRC80-F-12KV	252mm-255mm	13.2mm-14.6mm	9.7m	5.20kg
Full Ceramic 80% Lagging 15mm	ELA-DRC42-F-15KV	252mm-255mm	16.2mm-17.6mm	9.7m	6.90kg
Full Ceramic 80% Lagging 20mm	ELA-DRC80-F-20KV	252mm-255mm	20.7mm-22.1mm	9.7m	6.60kg
Full Ceramic 80% Lagging 25mm	ELA-DRC80-F-25KV	252mm-255mm	25.7mm-27.1mm	9.7m	6.70kg

DIMENSIONS PLAIN TILES

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/lm
Full Ceramic 80% Lagging 12mm	ELA-DRC80-F-12PV	252mm-255mm	13.2mm-14.6mm	9.7m	5.50kg
Full Ceramic 80% Lagging 15mm	ELA-SRC38-F-15PV	252mm-255mm	16.2mm-17.6mm	9.7m	6.00kg
Full Ceramic 80% Lagging 20mm	ELA-DRC80-F-20PV	252mm-255mm	20.7mm-22.1mm	9.7m	6.50kg
Full Ceramic 80% Lagging 25mm	ELA-DRC80-F-25PV	252mm-255mm	25.7mm-27.1mm	9.7m	6.80kg

DIMENSIONS END PIECES

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
End Piece 12mm	ELA-DR80-END-F-12V	252mm-255mm	11.2mm-12.6mm	130mm	0.70kg
End Piece 15mm	ELA-DR80-END-F-15V	252mm-255mm	14.2mm-15.6mm	130mm	0.80kg
End Piece 20mm	ELA-DR80-END-F-20V	252mm-255mm	18.7mm-20.1mm	130mm	0.90kg
End Piece 25mm	ELA-DR80-END-F-25V	252mm-255mm	23.7mm-25.1mm	130mm	1.00kg

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

Example:

Roll: 12mm cold bonded 58.2m roll product
code: ELA-DRC80-N-12K-58200
Strip: 15mm hot vulcanised 1.2m strip length product
code: ELA-DRC80-N-15KV-01200

Recommendation for lagging thicknesses suitability for pulley diameters:

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

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.






 +61 (0)2 8987 1922

 sales@elastotec.com.au

 elastotec.com.au

 61 Somersby Falls Rd,
Somersby NSW 2250, Australia