

CERAMIC LAGGING

LAGGING SPECIFICATIONS - HOT VULCANISED CERAMIC LAGGING

HOT VULCANISED CERAMIC LAGGING - FRAS

Hot vulcanising ceramic lagging is manufactured using high abrasion resistant ceramic tiles vulcanised to an abrasion resistant top rubber layer, a buffed CN bonding layer to provide high levels of adhesion and an uncured bonding layer to provide high levels of adhesion after autoclave curing. This ceramic lagging is for use in applications where there is a risk of fire and/or explosion such as underground coal mines, and grain and sugar handling facilities and is a **safety critical item**.

RUBBER PROPERTIES

Base polymer	Blend	
Hardness range	65+/-5	ASTM D2240
Tensile strength	>16 Mpa	ASTM D412
Elongation at break	> 050%	ASTM D412
Abrasion loss (volume loss)	<150mm ³	DIN 53516 – non rotating – method A
FRAS	PASS	MDG 3608

CERAMIC PROPERTIES

Aluminium oxide tile	>96% Alumina
Specific gravity	>3.4
Vickers hardness	>1100
Flex crack resistance (MPa*m ^{1/2})	>4.0
Micro particle size range	1-8

ADHESION REQUIREMENTS

Adhesion to steel @ +25 C	>20N/mm & 100%	Rubber tear	ASTM D429 method B
Adhesion to steel @ -40 C	>20N/mm & 100%	Rubber tear	ASTM D429 method B
Adhesion to steel @ +50 C	>20N/mm & 100%	Rubber tear	ASTM D429 method B

DIMENSIONS

Dimple tiles

PRODUCT DESCRIPTION	PRODUCT CODE	WIDTH	THICKNESS	STANDARD ROLL LENGTH	WEIGHT/lm
Ceramic lagging 12mm	ELA-SRC-F-12KV	251mm-255mm	13mm-14.2mm	9.7m	5.19kg
Ceramic lagging 15mm	ELA-SRC-F-15KV	251mm-255mm	16mm-17.2mm	9.7m	5.49kg
Ceramic lagging 20mm	ELA-SRC-F-20KV	251mm-255mm	21mm-22.2mm	9.7m	6.29kg
Ceramic lagging 25mm	ELA-SRC-F-25KV	251mm-255mm	26mm-27.2mm	9.7m	7.09kg

Plain tiles

PRODUCT DESCRIPTION	PRODUCT CODE	WIDTH	THICKNESS	STANDARD ROLL LENGTH	WEIGHT/lm
Ceramic lagging 12mm	ELA-SRC-F-12PV	251mm-255mm	13mm-14.2mm	9.7m	5.39kg
Ceramic lagging 15mm	ELA-SRC-F-15PV	251mm-255mm	16mm-17.2mm	9.7m	6.69kg
Ceramic lagging 20mm	ELA-SRC-F-20PV	251mm-255mm	21mm-22.2mm	9.7m	6.49kg
Ceramic lagging 25mm	ELA-SRC-F-25PV	251mm-255mm	26mm-27.2mm	9.7m	7.29kg

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

End pieces

PRODUCT DESCRIPTION	PRODUCT CODE	WIDTH	THICKNESS	STANDARD LENGTH	WEIGHT/lm
End piece 12mm	ELA-SR-END-F-12V	251mm-255mm	13mm-14.2mm	130mm	0.50kg
End piece 15mm	ELA-SR-END-F-15V	251mm-255mm	16mm-17.2mm	130mm	0.60kg
End piece 20mm	ELA-SR-END-F-20V	251mm-255mm	21mm-22.2mm	130mm	0.66kg
End piece 25mm	ELA-SR-END-F-25V	251mm-255mm	26mm-27.2mm	130mm	0.71kg

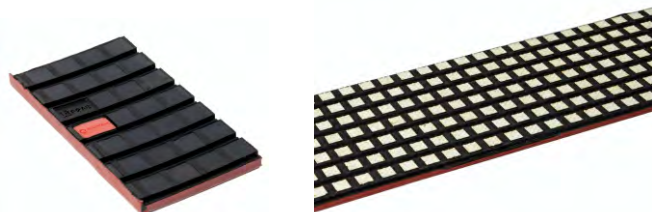
Product code for different lengths: Add 5 digit number to indicating length in mm.

Example

Roll: 12 mm 9.7 m roll product code:
ELA-SRC-F-12KV-09700

Strip: 15 mm 1.2 m ceramic length strip product code:
ELA-SRC-F-15KV-01200

Ceramic strips are supplied with 130 mm rubber end pieces at each end



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

FOR MORE INFORMATION