

530/533 Medium Duty Foil

Thermal Insulation and Vapour Barrier

PRODUCT DESCRIPTION

Insulco 530 and 533 Medium Duty Foils are flame retardant, double-sided, aluminium foil laminated to high tensile kraft paper. Also incorporated is a fibreglass reinforcing mesh for added strength. Insulco 533 foil has one aluminium face coated blue to provide a safe anti-glare surface when working in direct sunlight.



APPLICATION

Insulco 530/533 Medium Duty Foil is recommended for use as a sarking and reflective radiant insulation barrier under metal or tile roofs. Tiled roof applications may require support below.

This product may also be used as an external frame wrap in a brick veneer construction to provide weather protection and a radiant barrier which adds to the walls' thermal performance.

Applications where the façade is directly applied to the wall frame a breather foil (Insulco 599) or paper (Flamestop 650) must be used to allow the escape of trapped moisture. When installed in under floor applications a perforated breather foil, which facilitates drainage and ventilation, must be used.

In the HVAC industry, medium duty foil is combined with Insulco industrial insulation to provide a vapour barrier on external duct lagging.

QUALITY ASSURANCE

Insulco foil products are manufactured using the latest technology to produce premium quality products in accordance

with the International Quality Assurance Standards ISO 9002.

PHYSICAL PROPERTIES

Length (m)	Width (mm)	Area per roll (m ²)
60	1350	81
20	1350	27

INSTALLATION

It is recommended that Insulco foil products be installed in accordance with AS/NZS 4200.2 "Pliable building membranes and underlays – Installation requirements".

To be effective, as a reflective thermal insulation material, there must be a 20mm (minimum) still air cavity adjacent a clean reflective foil surface. The actual R-value performance varies dramatically with application.

When installed as an external wall wrap or sarking, the foil requires a 150mm (minimum) overlap and for walls should be fixed every at 450mm on each stud.

When installed in high wind areas, greater fixing and anti-flap pads may be required to prevent vibration drumming of the foil.

When installed under a roof with the foil exposed internally, the foil reflects light creating a well lit work environment with reduced artificial lighting.

When installed as a vapour barrier all joints should be sealed with a suitable adhesive or taped with an approved Insulco foil tape. A vapour barrier should also be accompanied by Insulco Building Blanket Insulation to control condensation.

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FIRE RESISTANCE

Insulco foils are fire retardant and have a low flammability index of no greater than 5, when tested AS 1530.2.

This means the products are safe for use in bushfire prone areas of Australia and meet Building Code requirements.

STRENGTH

Insulco 530 and 533 foils are classified as medium duty in accordance with AS/NZS 4200.1. This classification combines the tensile strength and tear resistance properties.

Medium duty foils are suitable for wall and roof application. When used as a sarking under tiles support below may be required depending on design wind speed and span. See table of allowable use in AS/NZS 4200.2 for greater detail.

DURABILITY

Insulco 530 and 533 Medium Duty Foils are not manufactured to withstand prolonged exposure to weathering, hence the external cladding should be installed without delay.

foil products should be stored in a dry area away from direct sunlight.

Prior to and during installation Insulco foil products must remain dry. Insulco

Aluminium foil corrodes when in contact with alkaline substances, hence Insulco foil products should not be installed in contact with wet concrete or mortar.

AS/NZS 4200.1 PROPERTIES

Duty Classification	Medium Duty
Tensile Strength - Machine Direction	> 9.5 kN/m
Tensile Strength - Lateral Direction	> 6.0 kN/m
Edge Tear Resistance - Machine Direction	> 65 N
Edge Tear Resistance - Lateral Direction	> 65 N
Vapour Barrier	High (< 2 ng/Ns)
Emittance	Reflective (0.05)
Water Barrier	High
Flammability	Low (< 5 to AS 1530.2)
Absorbency	Unclassified (< 100g/m ²)
Resistance to dry delamination	Pass
Resistance to wet delamination	Pass
Shrinkage	< 0.5%
Folding Endurance- Machine Direction	> 2.00
Folding Endurance- Lateral Direction	> 1.70

WARRANTY

Subject to the conditions in Section 68A of the Trade Practices Act and any other relevant legislation, our liability is expressly limited to the replacement of defective goods. We shall not be liable

for incidental or consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with the written advice.

* Tasman Insulation Australia Pty Ltd retains the right to change products and specifications without prior notification. If a specification is critical to end use, please consult Tasman Insulation. 0104



A Fletcher Building Company

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