

550/553 Heavy Duty Foil

Thermal Insulation and Vapour Barrier

PRODUCT DESCRIPTION

Insulco 550 and 553 Heavy 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 553 foil has one aluminium face coated blue to provide a safe anti-glare surface when working in direct sunlight. Heavy duty foil is also available with a 10% open perforation.



APPLICATION

Insulco 550/553 Heavy Duty Foil provides the extra strength required for metal and tile roof sarking in high wind areas. In this application the foil provides a secondary weather protection and a reflective radiant barrier which adds to the thermal performance (R-value). When used as a sarking under tiles support below is required for spans greater than 600mm.

In the HVAC industry, heavy duty foil is combined with Insulco industrial insulation to:

1. provide a vapour barrier on external duct lagging.
2. prevent air erosion of internal duct lining, for air velocities up to 13m/s.

In the second application, the foil is perforated (10% open) to allow the insulation to maintain a high acoustic absorption performance.

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 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 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 550 and 553 foils are classified as heavy duty in accordance with AS/NZS 4200.1. This classification combines the tensile strength and tear resistance properties.

Heavy duty foils provide the extra strength required for wall and roof applications in high wind areas. When used as a sarking under tiles support below is required for spans greater than 600mm.

DURABILITY

Insulco 550 and 553 Heavy 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	Heavy Duty
Tensile Strength - Machine Direction	> 12.5 kN/m
Tensile Strength - Lateral Direction	> 7.5 kN/m
Edge Tear Resistance - Machine Direction	> 80 N
Edge Tear Resistance - Lateral Direction	> 80 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.

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



A Fletcher Building Company

For more information call 1300 65 44 44

Email sales@insulco.com.au

Fletcher Insulation (NSW) Pty Ltd ABN 72 001 175 355

600 Woodstock Avenue Rooty Hill NSW 2766 Tel 02 9677 4444 Fax 02 9675 2618