

536/539 Light Duty Foil

Thermal Insulation and Vapour Barrier

PRODUCT DESCRIPTION

Insulco 536 and 539 Light Duty Foils are flame retardant, double-sided, aluminium foil laminated to a high tensile kraft paper. Also incorporated is a fibreglass reinforcing mesh for added strength. Insulco 539 foil has one aluminium face coated blue to provide a safe anti-glare surface when working in direct sunlight.



APPLICATION

Insulco 536/539 Light Duty Foil is recommended for use as an external frame wrap in a brick veneer construction. In this application the foil provides weather protection and a reflective radiant barrier which adds to the walls thermal performance (R-value). This product may also be used under metal roofs as a sarking and radiant insulation barrier (spans greater than 900mm must be supported below).

On applications where the facade is directly applied to the wall frame a breather foil or paper must be used to allow the escape of trapped moisture. This application requires Insulco 599 Breather Foil or Flamestop 650 paper. Insulco 599 Breather foil should also be used in under floor application to facilitate drainage and ventilation.

536/539 is not suitable for tiled roofs.

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 reduce the likelihood of 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 536 and 539 foils are classified as light duty in accordance with AS/NZS 4200.1. This classification combines the tensile, tear and bursting strength of pliable building membranes.

metal roof application. When used under metal roofs support below is required for spans greater than 900mm.

Light Duty foils are not suitable for use as a sarking under tiled roofs.

Light duty foils are suitable for wall and

DURABILITY

Insulco 536 and 539 Light 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.

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

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

AS/NZS 4200.1 PROPERTIES

Duty Classification	Light Duty
Tensile Strength - Machine Direction	> 7.5 kN/m
Tensile Strength - Lateral Direction	> 4.5 kN/m
Edge Tear Resistance - Machine Direction	> 45 N
Edge Tear Resistance - Lateral Direction	> 45 N
Bursting Strength	> 200 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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