

599 Light Duty Breather Foil

Breathable Reflective Thermal Insulation

PRODUCT DESCRIPTION

Insulco 599 Light Duty Foil is flame retardant, double-sided, aluminium foil laminated to a high tensile kraft paper. Also incorporated is a fibreglass reinforcing mesh for added strength. Insulco 599 foil has one aluminium face coated blue to provide a safe anti-glare surface when working in direct sunlight. This product has small holes at 50mm centres to allow the escape of trapped moisture within the building system.



APPLICATION

Insulco 599 Light Duty Breather Foil is recommended for use as an external frame wrap where the facade is directly applied to the wall frame. In this application the foil provides weather protection and a reflective radiant

barrier which adds to the walls thermal performance (R-value).

Insulco 599 Breather foil may also be used in under floor application as it facilitates drainage and ventilation.

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.

Externally wrap Insulco 599 Breather Foil around the wall frame of the home. Install with the blue side facing outwards to provide glare protection when applying the external facade.

Insulco 599 Breather Foil must be applied horizontally across the studs, starting at the base of the bottom plate. Each wrap of Insulco 599 must be installed with a minimum lap of 150mm over the wrap below until the top plate is reached.

Insulco foil tacks should be applied at 300mm centres on each stud to fix the 599 Foil to the timber frame. More tacks may be required in high wind areas.

Insulco 599 Breather Foil can be easily cut around windows, doors, etc. with a Stanley knife.

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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 599 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.

DURABILITY

Insulco 599 Light Duty Breather 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 | 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 | Low |
| Emittance | Reflective (0.05) |
| Water Barrier | Unclassified |
| 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. 0210



A Fletcher Building Company

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