

# Tuffstuff Breather

## *The Ultimate Breathable Wallwrap*

### **PRODUCT DESCRIPTION**

**Insulco Tuffstuff Breather** wall wrap is manufactured using a long lasting, tear resistant, super tuff, woven polymer laminated to Aluminium foil.

The product has special slits allowing for the passage of vapour, which prevents moisture build-up behind directly applied facades.

The aluminium foil provides a surface that reflects radiant heat, while the blue polymer provides the strength and an anti-glare surface for safety during fixing and applying external cladding.



### **APPLICATION**

**Insulco Tuffstuff Breather** is recommended for use as an external frame wrap where a timber siding, fibre cement and the like is applied directly to the frame. In this application the product provides thermal insulation and protection from the weather during construction.

The product's reflective thermal performance enhances the overall insulation performance of the wall and it can be used in conjunction with Insulco Fat Batt, Wall Batts or other Insulco products for added insulation benefits.

Tuffstuff Breather is not suitable for roofing applications.

### **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 <sup>2</sup> )
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 to a clean reflective foil surface. The actual R-value performance varies dramatically with application.

Externally wrap Tuffstuff Breather around the wall frame of the home. Install with the blue side facing outwards to provide glare protection

when applying the external facade.

Tuffstuff Breather must be applied horizontally across the studs, starting at the base of the bottom plate. Each wrap of Tuffstuff 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 450mm centres on each stud to fix the Tuffstuff to the timber frame. More tacks may be required in high wind areas.

Tuffstuff Breather can be easily cut around windows, doors, etc. with a Stanley knife.

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### THERMAL RESISTANCE

Tuffstuff Breather acts as a barrier against radiant heat transfer through walls, keeping your home warmer in winter and cooler in summer.

The actual thermal performance is dependant on the total system in which the product is installed.

### FIRE RESISTANCE

Tuffstuff Breather is fire retardant and has the low flammability index of no greater than 5, when tested AS 1530.2.

This means the product is safe for use in bushfire prone areas of Australia and meets Building Code requirements.

### STRENGTH

Tuffstuff Breather has the strength classification "Extra Heavy Duty", in accordance with AS/NZS 4200.1.

Tuffstuff Breather has an extremely high strength-to-weight ratio, making it easy to handle while being tear and puncture resistant.

### DURABILITY

Tuffstuff Breather is designed to withstand exposure to weathering, however external cladding should be applied within 2 months.

foil products should not be installed in contact with wet concrete or mortar.

Aluminium foil corrodes when in contact with alkaline substances, hence Insulco

As a water barrier, Tuffstuff Breather prevails against driven rain, humidity, frost and condensation.

### AS/NZS 4200.1 PROPERTIES

Duty Classification	Extra Heavy Duty
Tensile Strength - Machine Direction	> 13.0 kN/m
Tensile Strength - Lateral Direction	> 10.5 kN/m
Edge Tear Resistance - Machine Direction	> 90 N
Edge Tear Resistance - Lateral Direction	> 90 N
Vapour Barrier	Low
Emittance	Reflective (0.05)
Water Barrier	Unclassified
Flammability	Low (< 5 to AS 1530.2)
Absorbency	Unclassified (< 100g/m <sup>2</sup> )
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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