

Tuffstuff

The Ultimate Wallwrap

PRODUCT DESCRIPTION

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

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



APPLICATION

Insulco Tuffstuff is recommended for use as an external frame wrap of a brick veneer construction. In this application the product provides thermal insulation and protection from the weather during construction.

On applications where a timber siding, fibre cement and the like is applied directly to the frame, this product is not suitable as a breathable wall wrap must be employed.

The products 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 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 ²)	Weight per Roll (kg)
60	1350	81	9
20	1350	27	3

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 Tuffstuff around the frame of a brick veneer home. Install with the blue side facing outwards to provide glare protection when laying bricks.

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

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THERMAL RESISTANCE

Insulco Tuffstuff 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.

MOISTURE RESISTANCE

Tuffstuff is impervious to water and moisture due to a special coating on its

super strong woven polymer.

FIRE RESISTANCE

Tuffstuff is fire retardant and has the low flammability index of 1, 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

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

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

DURABILITY

Insulco Tuffstuff 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 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	High (Blue Face) Medium (Foil Face)
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.

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A Fletcher Building Company

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