

Duralfoil® Heavy Duty (350)

Product Description and Typical Applications

Duralfoil® Heavy Duty (350) is a double sided reflective foil laminate recommended for use as thermal insulation, vapour barrier and sarking for all roof types. Duralfoil® is recommended for use in industrial, commercial and residential buildings only where flame retardant properties are not considered important.

Duralfoil® Heavy Duty can also be used as a vapour barrier in the lining and lagging of hidden or exposed air-conditioning ducts, pipes and vessels. It can also be used to face building blanket for metal deck roofing or for underpinning concrete slab roofs, particularly where a strong, tear resistant facing is required.

Duralfoil® Heavy Duty provides an effective barrier against moisture, vapours, wind, heat and dust penetration when overlapped, particularly when sealed with Vapastop® 883 self adhesive aluminium tape.

Physical Characteristics

Duralfoil® Heavy Duty is constructed using two Albar® surfaces which provide exceptional resistance to scuffing and delamination. Albars® are formed by bonding pure aluminium foil to high density Kraft paper using a polyethylene extrusion process. These Albars® are then bonded together with a heavy coating of hot melt adhesive and reinforced with a tight weave of continuous strands of fibreglass.

Duralfoil® Heavy Duty (350) has been developed as an economical alternative to Antiblaze® Heavy Duty (990) for use only where flame retardant properties are not considered important.

Physical Property Classifications in Accordance with AS/NZS4200.1

Duty Classification:	Heavy	Resistance to Dry Delamination:	Pass
Vapour Barrier:	High (<2ng/Ns)	Resistance to Wet Delamination:	Pass
Emittance (Al. Face):	Reflective (≤0.02)	Shrinkage:	Pass
Water Barrier:	High	Folding Endurance:	Pass
Flammability Index:	Unclassified	Tensile Strength (kN/m):	M.D: ≥13.0 C.D: ≥10.5
		Edge Tear Resistance (N):	≥90

The above are typical 'nominal' results from testing Duralfoil® 350 in independent, ISO9001 accredited laboratories. Test reports are available on request.

Green Star Compliant

Fletcher Insulation is committed to providing environmentally sustainable products. Fletcher Insulation products have Zero Ozone Depleting Potential in both manufacture and composition, complying with the GreenStar Insulant ODP Emissions credit requirement. Air quality during manufacture is maintained with total Volatile Organic Compound (VOC) emissions below quantifiable levels.

Thermal Performance

When used in conjunction with an airspace Duralfoil® is an effective thermal insulation material because of the high reflectivity and low emissivity of its aluminium foil surfaces. The contribution of this product to Total R-value depends on installation and environmental conditions which include the effect of dust.

Comprehensive calculations of Total R-values for typical roof systems are illustrated in the ICANZ Insulation Handbook which can be found at [www.icanz.org.au>PublicationsandReports>InsulationHandbook](http://www.icanz.org.au/PublicationsandReports/InsulationHandbook) or contact Fletcher Insulation Export Office.

Installation

Duralfoil® Heavy Duty should be installed in accordance with AS/NZS4200.2 "Installation Requirements for Pliable Building Membranes". Install with a 150mm overlap between runs, with each higher run lapping over the layer below. The product must be installed in such a way to prevent water from pooling.

Heavy Duty products may be installed across spans up to 1200mm without the need of a supporting mesh.

Install external cladding without delay. To be effective as a thermal insulator there must be a minimum air gap of 20mm adjacent to at least one reflective foil face. Installing Duralfoil® under the battens is a sure way to achieve the required air space.

Aluminium foil is susceptible to alkali attack and therefore should not come in contact with wet concrete.

When specifying, state the following:

Product Name: Duralfoil® Heavy Duty (350)

"Duralfoil® Heavy Duty (350) shall be installed under the battens as a thermal insulation, vapour barrier and sarking."

Standard Roll Size

1.35 x 30m (40.5m²)

Note: Fletcher Insulation (Vic) Pty. Ltd. Reserves the right to change product specifications without prior notification. Information in this publication and otherwise supplied to users as to the subject product is based on our general experience and is given in good faith, but because of the many factors which are outside our knowledge and control and affect the use of products, no warranty is given or is to be implied with respect to either such information or the product itself, in particular the suitability of the product for any particular purpose. The purchaser should independently determine the suitability of the product for the intended application.

Manufactured in Australia by Fletcher Insulation (NSW) Pty Ltd. under an ISO9001 Certified Quality Management System

Fletcher Insulation (NSW) PTY LTD ABN72 001 175 355
161 Arthur Street, Locked Bag 38, Homebush NSW 2140. Phone: +649 579 6789 Fax: +649 579 5130
www.sisalation.com.au www.insulation.com.au info@tasmaninsulation.com

