

FirmaSoft™ Batts: Wall

Thermal insulation for residential wall applications

Description

FirmaSoft™ Batts are made from flexible and resilient glasswool for thermal and acoustic insulation of residential walls. FirmaSoft™ Batts™ are available in various sizes and densities to fit standard timber and steel stud spacings.

Application

FirmaSoft™ Batts are the trusted choice when it comes to constructing new homes or retrofitting existing buildings for increased thermal efficiency. The FirmaSoft™ Batts insulation range is available in various thermal R-values and dimensions, ensuring there is an effective and efficient product solution for every application.

FirmaSoft™ Batts, renowned for their firmness, are low itch, easy to cut, low dust and friction fit standard wall studs to make homes feel cooler in summer, warmer in winter and provide energy savings all year round.

Physical Characteristics

	Material R-value m ² K/W	Nominal Thickness mm	Width mm	Length mm	Batts per pack	m ² per pack	Coverage per pack m ²	Packs per Bale	Product Code
Wall	R1.5	70	430	1160	22	11.0	12.4	6	900281
			580	1160	22	14.8	16.9	6	900280
	R2.0	90	430	1160	22	11.0	12.4	5	900282
			580	1160	18	12.1	13.8	6	900283

Physical Properties

Property	Test Method/Standard	Result	Unit
Maximum Service Temperature	ASTM C411/C447	350	°C
Thermal Resistance	AS/NZS 4859.1:2002	Complies	m ² .K/W
Moisture Absorption	When exposed to environmental conditions of 50°C and 95% relative humidity for four days	<0.2%	% by volume
pH	ASTM C871	9 (does not contribute to the corrosion of steel structures)	-

Fire Hazard Properties

Property	Test Method/Standard	Result
Combustibility	AS 1530.1:1994	Non combustible
Ignitability Index	AS/NZS 1530.3:1999	0
Spread of Flame Index		0
Heat Evolved Index		0
Smoke Developed Index		1
BAL Compliance	AS 3959: 2018	Low – FZ

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Acoustic Performance

Sound Absorption

FirmaSoft™ Batts tested achieve the following sound absorption coefficients when tested in accordance with AS ISO 354-2006.

Product	Thickness mm	Sound Absorption Coefficients at Frequencies (Hz) of:						NRC	α_w
		125	250	500	1000	2000	4000		
FirmaSoft™ Batts Wall R2.0	90	0.40	0.79	1.03	0.97	0.94	0.92	0.95	1.0

Flow Resistivity

FirmaSoft™ Batts tested achieve the following Flow Resistivities when tested in accordance with ASTM C522-03.

Property	Test Method/Standard	Test Results				Unit
		70	90	70	90	
Airflow resistance of acoustic materials	ASTM C522-03	5410	4730	11750	7930	Rayls/m

Health and Safety

Fletcher Insulation glasswool products are manufactured from FBS-1 Glasswool Bio-Soluble Insulation®. FBS-1 Glasswool Bio-Soluble Insulation® is safe to use and is classified as non-hazardous according to the criteria of Safe Work Australia. Fletcher Insulation glasswool insulation can be used with confidence in any residential, commercial or industrial application.

Environmental Properties

Fletcher Insulation avoids the use of Ozone Depleting Potential (ODP) substances in the manufacture or composition of its FBS-1 Glasswool Bio-Soluble Insulation®.

The use of these Fletcher Insulation products guarantees the use of Zero ODP insulation while also ensuring that no harmful levels of Volatile Organic Compounds (VOCs) are released. This allows the incorporation of environmentally preferable insulation whilst also maintaining indoor air quality.

Technical Specification

When specifying, state the following:

The insulation material shall be Fletcher Insulation FirmaSoft™ Batts Wall R_____m² K/W
(Material R-value) _____ (thickness) x _____ (width) x _____ (length) mm.

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FIRMA
Soft
BATTES
Low Dust Formula