

AIS Glasswool Batt

AIS Glasswool is a lightweight thermal and acoustic insulation product for commercial and residential buildings, manufactured from silicate glass fibres bonded with resin. It is available in a wide range of R-Values, densities and formats — wall, ceiling and floor batts, in widths to suit timber and metal framing — providing architects, designers, builders and installers with comprehensive thermal and acoustic solutions.

The tested AIS Glasswool 14 core is NOT deemed combustible to AS 1530.1-1994 (CSIRO FNC12999), and tested variants — including the foil-faced product — achieve AS/NZS 1530.3 early fire hazard indices of 0, 0, 0, 0–1. AIS Glasswool does not contain asbestos (AS 4964-2004).



AIS Glasswool Batt — lightweight thermal & acoustic insulation.
Foil-faced (FF) variant also available.

TYPICAL APPLICATIONS

- Thermal insulation to internal and external walls of residential and commercial buildings (timber and metal frame)
- Thermal insulation to ceilings and roof spaces — R2.5 to R6.0
- Underfloor thermal insulation (HD floor batt)
- Acoustic infill to internal partitions, inter-tenancy walls and floors
- Thermal and acoustic infill within fire-rated plasterboard wall systems ¹
- Commercial fit-out, ceilings and services zones

¹ Where installed within a fire-rated system, the FRL is a property of the complete tested/assessed system (e.g. the plasterboard manufacturer's system) — confirm the insulation specification against that system before installation.

FEATURES & BENEFITS

- **Non-combustible** – AIS Glasswool 14 tested and NOT deemed combustible to AS 1530.1-1994 (CSIRO FNC12999) ²
- **Low fire hazard** – AS/NZS 1530.3 indices 0, 0, 0, 0–1 across tested variants, including the foil-faced product (CSIRO FNE13038; AWT 17-006757 & 19-002279; SGS AJFS2202000898FF)
- **Thermal range** – R0.8 to R6.0 across wall, ceiling and floor formats (AS/NZS 4859.1)
- **Acoustic** – open fibrous structure absorbs airborne sound; supports partition acoustic performance
- **Asbestos-free** – AIS Glasswool does not contain asbestos (AS 4964-2004)
- **Lightweight & easy to install** – friction-fits between studs, joists and battens at standard centres
- **Bio-soluble fibre** – low-irritant glasswool; will not rot, sustain vermin or mould
- **Foil-faced option (FF)** – reinforced aluminium foil facing for radiant/vapour control applications

² Test relates to the specimens tested (AIS Glasswool 14, 50 mm, 14 kg/m³) — see Fire Performance for the scope of each report.

PRODUCT PROPERTIES

Property	Test / Reference Standard	Result
Material	—	Glasswool — silicate glass fibre with thermosetting resin binder
Fire performance (combustibility)	AS 1530.1-1994	NOT deemed combustible — AIS Glasswool 14 (CSIRO FNC12999)
Early fire hazard indices — Ignitability / Spread of Flame / Heat Evolved / Smoke Developed	AS/NZS 1530.3:1999	0 / 0 / 0 / 0–1 across tested variants incl. foil-faced (see Fire Performance)
Thermal resistance	AS/NZS 4859.1	Complies — R0.8 to R6.0 by product (see specification tables)
Asbestos analysis	AS 4964-2004	AIS Glasswool does not contain asbestos
Moisture behaviour	—	Non-hygroscopic; will not rot, sustain vermin or mould

FIRE PERFORMANCE

Glasswool is an inorganic fibre insulation with very low fire hazard. The following test evidence applies; each result relates to the specimen tested and described in the referenced report.

Report	Laboratory	Test	Specimen	Result
FNC12999 (Nov 2022)	CSIRO (NATA No. 165)	AS 1530.1-1994 combustibility	AIS Glasswool 14 — 50 mm, 14 kg/m ³ , unfaced	NOT deemed combustible (Clause 3.4)
FNE13038 (Mar 2023)	CSIRO (NATA No. 165)	AS/NZS 1530.3:1999	AIS Glasswool 14 FF — 50 mm, 14 kg/m ³ , foil-faced (foil: aluminium / fibreglass scrim / kraft / PE)	Indices 0, 0, 0, 1
17-006757 (Dec 2017)	AWTA Product Testing (NATA)	AS/NZS 1530.3:1999	Glasswool building blanket batt — 100 mm, ≈ 1.1 kg/m ²	Indices 0, 0, 0, 1
19-002279 (May 2019)	AWTA Product Testing (NATA)	AS/NZS 1530.3:1999	R1.3 55 mm acoustic batt, 12 kg/m ³ — glasswool face tested	Indices 0, 0, 0, 0-1
AJFS2202000898FF (Mar 2022)	SGS-CSTC (CNAS L4743)	AS/NZS 1530.3:1999	Glass wool roll — 60 mm, 790 g/m ² (manufacturer's specimen)	Indices 0, 0, 0, 0

Combustibility — CSIRO Certificate of Test FNC12999. Five specimens of AIS Glasswool 14 (glass fibre and binder, 50 mm, 14 kg/m³) were tested by CSIRO to AS 1530.1-1994 in November 2022. The material is **NOT deemed combustible** according to the criteria of Clause 3.4 of AS 1530.1-1994. Issued 21 November 2022.

Early fire hazard — foil-faced product (CSIRO FNE13038). Six specimens of AIS Glasswool 14 FF (50 mm, 14 kg/m³, foil face of aluminium foil / fibreglass scrim / kraft paper / polyethylene adhesive) were tested to AS/NZS 1530.3:1999 in March 2023, exposed on the foil face: no ignition, no flame spread, no heat release; indices 0, 0, 0, 1. Issued 24 March 2023.

Early fire hazard — supplementary reports. AWTA test 17-006757 (100 mm glasswool building blanket batt) returned indices 0, 0, 0, 1; AWTA test 19-002279 (55 mm, 12 kg/m³ faced acoustic batt, glasswool face exposed) returned 0, 0, 0, 0-1; and SGS report AJFS2202000898FF (60 mm glass wool roll, manufacturer's specimen) returned 0, 0, 0, 0 with no ignition. In each case the result applies to the specimen as mounted and tested.

NCC context. The AS/NZS 1530.3 indices above satisfy the NCC requirements for insulation materials (Specification 3 and associated provisions) for the tested variants. Where AIS Glasswool is installed as infill within a fire-rated wall or ceiling system, the FRL achieved is a property of the complete tested or assessed system; confirm the insulation type, density and thickness against the governing system specification.

SPECIFICATION — AIS GLASSWOOL WALL BATT (TIMBER FRAME)

Product Name	Product Code	R-Value (m ² K/W)	Thickness (mm)	Width (mm)	Length (mm)	Batts / Pack	m ² / Pack
AIS Glasswool 11 Wall Batt	119210402.11-50	R1.1	50	430	1160	51	25.44
	119210402.13-50	R1.1	50	580	1160	51	34.31
	119210402.11-75	R1.7	75	430	1160	32	15.96
	119210402.13-75	R1.7	75	580	1160	32	21.53
	119210402.11-90	R2.0	90	430	1160	28	13.97
	119210402.13-90	R2.0	90	580	1160	28	18.84
	119210402.11-100	R2.2	100	430	1160	24	11.97
	119210402.13-100	R2.2	100	580	1160	24	16.15
AIS Glasswool 14 Wall Batt	119210403.11-50	R1.3	50	430	1160	38	18.95
	119210403.13-50	R1.3	50	580	1160	38	25.57
	119210403.11-75	R1.9	75	430	1160	26	12.97
	119210403.13-75	R1.9	75	580	1160	26	17.49
	119210403.11-90	R2.2	90	430	1160	22	10.97
	119210403.13-90	R2.2	90	580	1160	22	14.80
	119210403.11-100	R2.5	100	430	1160	19	9.48
	119210403.13-100	R2.5	100	580	1160	19	12.78
AIS Glasswool 24 Wall Batt	119210405.11-50	R1.4 HD	50	430	1160	23	11.47
	119210405.13-50	R1.4 HD	50	580	1160	23	15.47
	119210405.11-70	R2.0 HD	70	430	1160	15	7.48
	119210405.13-70	R2.0 HD	70	580	1160	15	10.09
	119210405.11-75	R2.1 HD	75	430	1160	15	7.48
	119210405.13-75	R2.1 HD	75	580	1160	15	10.09
	119210405.11-90	R2.5 HD	90	430	1160	14	6.98
	119210405.13-90	R2.5 HD	90	580	1160	14	9.42
	119210405.11-100	R2.8 HD	100	430	1160	11	5.49
	119210405.13-100	R2.8 HD	100	580	1160	11	7.40
AIS Glasswool 32 Wall Batt	119210406.11-25	R0.8 HD	25	430	1160	34	16.96
	119210406.13-25	R0.8 HD	25	580	1160	34	22.88
	119210406.11-50	R1.5 HD	50	430	1160	18	8.98
	119210406.13-50	R1.5 HD	50	580	1160	18	12.11
	119210406.11-75	R2.2 HD	75	430	1160	11	5.49
	119210406.13-75	R2.2 HD	75	580	1160	11	7.40
	119210406.11-90	R2.7 HD	90	430	1160	9	4.49
	119210406.13-90	R2.7 HD	90	580	1160	9	6.06
	119210406.11-100	R3.0 HD	100	430	1160	8	3.99
	119210406.13-100	R3.0 HD	100	580	1160	8	5.38

SPECIFICATION — AIS GLASSWOOL WALL BATT (METAL FRAME)

Product Name	Product Code	R-Value (m ² K/W)	Thickness (mm)	Width (mm)	Length (mm)	Batts / Pack	m ² / Pack
AIS Glasswool 9 Wall Batt	119210401.24-70	R1.5	70	600	1200	40	28.8
AIS Glasswool 11 Wall Batt	119210402.24-50	R1.1	50	600	1200	51	36.72
	119210402.24-75	R1.7	75	600	1200	32	23.04
	119210402.24-90	R2.0	90	600	1200	28	20.16
	119210402.24-100	R2.2	100	600	1200	24	17.28
AIS Glasswool 14 Wall Batt	119210403.24-50	R1.3	50	600	1200	38	27.36
	119210403.24-75	R1.9	75	600	1200	26	18.72
	119210403.24-90	R2.2	90	600	1200	22	15.84
	119210403.24-100	R2.5	100	600	1200	19	13.68
AIS Glasswool 24 Wall Batt	119210405.24-50	R1.4 HD	50	600	1200	23	16.56
	119210405.24-70	R2.0 HD	70	600	1200	15	10.80
	119210405.24-75	R2.1 HD	75	600	1200	15	10.80
	119210405.24-90	R2.5 HD	90	600	1200	14	10.08
	119210405.24-100	R2.8 HD	100	600	1200	11	7.92
AIS Glasswool 32 Wall Batt	119210406.24-25	R0.8 HD	25	600	1200	34	24.48
	119210406.24-50	R1.5 HD	50	600	1200	16	12.96
	119210406.24-70	R2.1 HD	70	600	1200	11	7.92
	119210406.24-75	R2.2 HD	75	600	1200	11	7.92
	119210406.24-90	R2.7 HD	90	600	1200	9	6.48
	119210406.24-100	R3.0 HD	100	600	1200	8	5.76
	119210406.24-120	R3.5 HD	120	600	1200	6	4.32

SPECIFICATION — AIS GLASSWOOL CEILING BATT

Product Name	Product Code	R-Value (m ² K/W)	Thickness (mm)	Width (mm)	Length (mm)	Batts / Pack	m ² / Pack
AIS Glasswool 8-14 Ceiling Batt	119210501.11-125	R2.5	125	430	1160	24	11.97
	119210501.13-125	R2.5	125	580	1160	24	16.15
	119210501.11-150	R3.0	150	430	1160	20	9.98
	119210501.13-150	R3.0	150	580	1160	20	13.46
	119210501.11-175	R3.5	175	430	1160	18	8.98
	119210501.13-175	R3.5	175	580	1160	18	12.11
	119210501.11-195	R4.1	195	430	1160	15	7.48
	119210501.13-195	R4.1	195	580	1160	15	10.09
	119210501.11-230	R5.0	230	430	1160	10	4.99
	119210501.13-230	R5.0	230	580	1160	10	6.73
	119210501.11-260	R6.0	260	430	1160	9	4.49
	119210501.13-260	R6.0	260	580	1160	9	6.06

SPECIFICATION — AIS GLASSWOOL FLOOR BATT

Product Name	Product Code	R-Value (m ² K/W)	Thickness (mm)	Width (mm)	Length (mm)	Batts / Pack	m ² / Pack
AIS Glasswool HD Floor Batt	119210601.11-90	R2.5 HD	90	430	1160	14	6.98
	119210601.13-90	R2.5 HD	90	580	1160	14	9.42

SUPPORTING DOCUMENTATION

The following evidence is held by AIS to support specification and approval:

Document	Issuer	Scope
Certificate of Test FNC12999	CSIRO (NATA No. 165)	AS 1530.1-1994 combustibility — AIS Glasswool 14: NOT deemed combustible
Certificate of Test FNE13038	CSIRO (NATA No. 165)	AS/NZS 1530.3 — AIS Glasswool 14 FF (foil-faced): 0, 0, 0, 1
Test Report 17-006757	AWTA Product Testing	AS/NZS 1530.3 — glasswool building blanket batt: 0, 0, 0, 1
Test Report 19-002279	AWTA Product Testing	AS/NZS 1530.3 — 55 mm faced acoustic batt, glasswool face: 0, 0, 0, 0-1
Test Report AJFS2202000898FF	SGS-CSTC	AS/NZS 1530.3 — 60 mm glass wool roll (manufacturer's specimen): 0, 0, 0, 0

Copies available on request from AIS — sales@ais-group.com.au. No CodeMark certificate or third-party appraisal is currently held for this product. Test results relate to the specimens tested; confirm the applicable report against the product variant being specified.

HANDLING, STORAGE & INSTALLATION

Storage

- Store flat and dry, off the ground, in original packaging until use
- Protect from prolonged weather exposure, water and mechanical damage
- Allow compressed packs to recover loft before installation

Installation

- Select the batt width to suit stud/joist centres (430/580 mm timber; 600 mm metal frame) for a snug friction fit
- Cut with a sharp knife or insulation saw; butt batts tightly with no gaps or compression voids
- Do not compress batts — loft loss reduces the declared R-Value
- Maintain required clearances to hot flues, downlights and other heat sources per AS/NZS 3000 and product requirements
- Foil-faced (FF): orient the foil per the project's condensation/radiant strategy; tape joints where a continuous facing is required

HEALTH, SAFETY & SUSTAINABILITY

AIS Glasswool is manufactured from bio-soluble glass fibres and does not contain asbestos (AS 4964-2004). The mechanical effect of fibres in contact with skin may cause temporary itching — rinse in cold water before washing. Follow the product SDS: cover exposed skin, use gloves, eye protection and a dust mask when cutting, and ventilate the work area. The material is inert, rot-proof, does not sustain vermin or mould, and is recyclable at end of life.

Health & safety classification statements to be confirmed against the current AIS Safety Data Sheet for this product.

Australasian Insulation Solutions Pty Ltd (AIS). AIS reserves the right to change product specification without prior notice. Technical specifications shown in this document are intended as general guidelines only. 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 particular 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 suitability of the product for any particular purpose. The purchaser should independently determine the suitability of the product for the intended application. AIS takes no responsibility for errors herein contained in this document. For the most current version of this publication, please refer to ais-group.com.au.