



WALL INSULATION DATASHEET

ThermoBatts wall insulation is available in variety of densities, thicknesses, and dimensions, making them suitable for standard timber and steel-framed construction as well as meeting a wide range of building needs. Whether you're constructing a new home or renovating an existing space, ThermoBatts provide flexibility and adaptability for any project. ThermoBatts are crafted with precision, ensuring they fit snugly within wall cavities to maximise efficiency and performance. Additionally, they are designed for easy installation, reducing labour time and costs while delivering long-lasting benefits. By installing ThermoBatts you can rest assured that you are investing in quality insulation that not only enhances energy efficiency but also contributes to a more sustainable and comfortable living environment.

ESSENTIAL PERFORMANCE

Thermal Performance - Maintaining a comfortable home temperature during winter and summer. Meeting the minimum requirements for energy efficiency in homes.

Acoustic Insulation - Outstanding sound-absorbing qualities, specifically engineered to minimise the transmission of undesirable noise.

AS/NZS 4859.1:2018 Compliant - All ThermoBatts products have achieved Third Party Certification that they meet the requirements of AS/NZS 4859.1:2018. This independent verification guarantees that you fulfill all essential requirements under the Building Code of Australia, giving you confidence and peace of mind.

Non-combustible - ThermoBatts can hinder the spread of flames and enhance the safety of homes, buildings, and their occupants.

KEY ADVANTAGES

Easier Installation: Designed for straightforward installation, this feature minimises labor time and costs while offering long-lasting advantages.

Sustainable Product: ThermoBatts are crafted from almost 85% recycled glass and locally sourced materials, making it an ideal choice that aligns seamlessly with sustainability and environmental objectives.

Exceptional Thermal Performance: These products deliver excellent energy efficiency for buildings, keeping them cool in summer and warm in winter. The thermal resistance value was evaluated at a mean temperature of 23°C, following AS/NZS 4859.1:2018. This guarantees that users can depend on the products to deliver the required thermal resistance, thereby enhancing the building's operational efficiency.

Acoustic Performance: Significantly decreases unwanted external noise within a building, creating a more enjoyable living and working environment. ThermoBatts batts serve as a natural and efficient sound barrier, reducing sound transfer and achieving outstanding Rw ratings.

Fire Hazard Properties: Achieved the following Early Fire Hazard Performance Indices: Ignitability: 0, Spread of Flame: 0, Heat Evolved: 0, Smoke Developed: 0-1. These results comply with AS/NZS 1530.3: 1999.

Combustibility Properties: ThermoBatts batts are inherently non-combustible, meaning they will not burn when exposed to fire. They have been tested for non-combustibility in accordance with AS/NZS1530 Part 1: 1994.

Surface Burning Characteristics: Meets the surface burning properties and limited combustibility outlined in ASTM E84

Application: Thermobatts Wall Insulation is engineered to deliver superior thermal and acoustic performance in both internal and external wall frame applications. ThermoBatts can be easily installed between timber and metal studs, as they are designed for a friction fit between studs. ThermoBatts wall batts are available in a range of R-Values from R1.5 to R2.5HD, offering tailored solutions to meet diverse insulation needs

Mould Growth: This product does not promote the growth of mould, fungus, bacteria, or rodents.

Product Warranty: This product is covered by a 70 year product warranty. For full details, please go to www.ThermoBatts.com.au. Terms & Conditions apply

Corrosiveness: Chemically inert. Hydrogen in concentration at pH 6~7 and will not cause or accelerate corrosion in steel, stainless steel, copper, or aluminum.

Individual Volatile Organic Compounds (VOC's) Emission: Safe to use with low Volatile Organic Compounds (VOCs), ensuring no harmful levels are released.

Water Vapor Absorption: This product has been determined to be <0.02% by volume.

Maximum service temperature: Maximum service temperature of 350 °C

Optimal Fibre Diameter: The optimal fibre diameter generates additional air chambers, enabling the insulation to provide superior and enhanced thermal and acoustic performance.

Enhanced Fibre Network: A more refined, longer, and evenly spread fiber network enhances tensile strength, allowing the insulation to display remarkable durability, flexibility, and a noticeably softer feel.

Health and Safety: Modern Glasswool insulation is classified as biosoluble. The International Agency for Research on Cancer (IARC) reclassified these types of Glasswool as Category 3 – not classifiable as carcinogenic to humans. Consequently Glasswool Insulation is considered safe for installation and use, as modern biosoluble Glasswool Insulation products are not classified as carcinogenic to humans by international authorities like the World Health Organization's IARC. While handling glass wool can cause temporary mechanical irritation to the skin and respiratory tract (such as itching, dryness, and coughing), these effects are harmless and temporary. Proper personal protective equipment (PPE) like gloves, long sleeves and pants, and respirators in dusty environments can prevent these irritations.



R-Value (m²K/W)	Thickness (mm)	Width (mm)	Length (mm)	Area per Pack (m²)	Pieces per pack	Packs per bale	Product Code
R1.5	75	430	1160	11.47	23	8	810018
R1.5	75	580	1160	15.47	23	8	810019
R2.0 HD	75	430	1160	6.98	14	7	810016
R2.0 HD	75	580	1160	9.42	14	7	810017
R2.0	90	430	1160	10.47	21	8	810020
R2.0	90	580	1160	14.13	21	8	810021
R2.5 HD	90	430	1160	4.99	10	8	810022
R2.5 HD	90	580	1160	6.73	10	8	810023

Technical specifications as shown in this literature are intended to be used as general guidelines only. The physical and chemical properties of glass mineral wool insulation listed herein represent typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Warranty and liability upon delivery shall be in accordance with our General Terms and Conditions. No responsibility is assumed for the correctness of this information. Version of 20/07/2026.