THERMO BATTS

INSULATION FOR THE NEXT GENERATION

ACOUSTIC PARTITION INSULATION DATASHEET

ThermoBatts insulation batts are available in a variety of densities, thicknesses, & dimensions, making them ideal for both standard timber & steel-framed constructions while catering to diverse building requirements. Whether you're building a new home or renovating an existing space, ThermoBatts batts offers the flexibility & adaptability needed for every project.
Using ThermoBatts batts in your interior walls can significantly minimise noise transfer between rooms, providing you with the tranquility you desire. Our batts are meticulously crafted to ensure a snug fit within wall cavities, maximising efficiency & performance. They are designed for straightforward installation, which reduces labor time & costs while delivering long-lasting advantages. With ThermoBatts, you can be confident that you are investing in high-quality insulation that enhances energy efficiency & contributes to a more sustainable & comfortable living environment.

ESSENTIAL PERFORMANCE

Thermal Performance - In addition to sound absorption, ThermoBatts Acoustic batts will improve the thermal comfort and energy efficiency of the building in which they have been installed, keeping it cool in summer and warm in winter.

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 Acoustic Batts are intended for use iin commercial metal framed walls, partitions and ceilings. The thermal and acoustic performance of ThermoBatts help achieve a wide range of Acoustic Ratings needed to satisfy the wide range of building requirements where acoustic control is critical. ThermoBatts can be used in high and low rise residential buildings, office fit-outs, schools and can also be used as a ceiling overlay for improved thermal and acoustic performance. ThermoBatts Acoustic batt range is available in densities from 11kgm3 through to 14kgm3 and thicknesses from 50mm to 90mm.

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: afe 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.

Density (kg/m^3)	Thickness (mm)	R-Value (m^2K/W)	Width (mm)	Length (mm)	Pieces Per Pack	Area Per Pack (m^2)	Product Code
11	50	R1.2	450	1200	38	20.52	840010
11	50	R1.2	600	1200	38	27.36	840011
11	75	R1.8	450	1200	25	13.50	840022
11	75	R1.8	600	1200	20	14.40	840023
14	50	R1.3	450	1200	30	16.20	840016
14	50	R1.3	600	1200	30	21.60	840017
14	75	R1.9	450	1200	15	8.10	840024
14	75	R1.9	600	1200	15	10.8	840025