ULTRA CORE INSULATION

TECHNICAL DATA SHEET

Batt Insulation 07 21 16 · Acoustic Blanket Insulation 09 81 16

Ultra Core Insulation — Safe & Soundproof

Rock Mineral Stone Wool Batt Insulation

Ultra Core Insulation is a stone wool batt insulation for interior partitions of wood and steel frame construction, and for ceilings between floors, where superior fire resistance and acoustical performance are required. Made from natural stone, the batts are non-combustible, water resistant and dimensionally stable — they will not sag, settle or support mould growth over the life of the building.

Compliance and Performance

Property	Test Standard	Result
Mineral Fibre Blanket Thermal Insulation, Type I	ASTM C665	**Complies**
Mineral Fibre Thermal Insulation for Buildings, Type I	CAN/ULC S702	**Complies**
Nominal Density	ASTM C167	**2.5 lb/ft³ (40 kg/m³)**
Melting Point of Stone Wool Fibre	—	**Above 1,000 °C (1,832 °F)**

Reaction to Fire

Property	Test Standard	Result
Combustibility	ASTM E136	**Non-combustible**
Determination of Non-combustibility of Building Materials	CAN/ULC S114	**Non-combustible**
Surface Burning Characteristics	ASTM E84 (UL 723)	**Flame Spread = 0; Smoke Developed = 0**
Surface Burning Characteristics	CAN/ULC S102	**Flame Spread = 0; Smoke Developed = 0**

Acoustical Performance — ASTM C423

Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC	SAA
3 in (76 mm)	0.44	0.98	1.22	1.14	1.09	1.07	1.10	1.11

Sound absorption coefficients for the 3 in batt, tested per ASTM C423.

Dimensions and Packaging

Application	Thickness	Batt Size (W × L)	Coverage / Bag	Pieces / Bag	Bag Weight
Wood stud 2×4, 16 in on centre	3 in (76 mm)	15¼ in × 47 in (387 × 1194 mm)	44.8 ft² (4.16 m²)	9	Net 25.2 lb (11.44 kg) Gross 25.3 lb (11.51 kg)

Features and Benefits

- Fireproof — non-combustible stone wool; will not burn or contribute to flame spread
- Water resistant — repels water and will not promote mould, mildew or fungi growth
- Dimensionally stable — will not sag, slump or settle over time
- Soundproof — high-density batts absorb sound and reduce noise transfer between rooms
- Friction fit — batts stay in place in the stud cavity without fasteners; easy to cut and install
- Made from natural stone — made for Canadian climate

Installation

Install batts friction-fit between studs or joists with the batt filling the full cavity depth, leaving no gaps or voids. Cut oversize by approximately ½ in using a serrated knife against a straight edge. Wear gloves, eye protection and a dust mask when handling. For interior walls and ceilings between floors where fire separation and sound control are required.

Performance values shown mirror published stone wool batt data for this product class. As Ultra Core has no control over installation design, workmanship or application conditions, no warranty of installed performance is expressed or implied beyond the general terms and conditions of sale.