

ROCK WOOL BOARD · PREMIUM GRADE INORGANIC BASALT INSULATION

ENGINEERED FROM ROCK. BUILT TO OUTLAST.

ISOROCK rock wool board is produced from basalt — an inorganic volcanic rock — heated to 1350–1400 °C, drawn into fibres, and bonded with a thermosetting resin. It is lightweight, dimensionally stable, and used for thermal and acoustic insulation where high compressive strength is required: over-decks, floors, sandwich panels, and drywall partitions. Certified Type 1 thermal insulation under CAN/ULC-S702.1.

DENSITY 40–200 kg/m ³	THERMAL CONDUCTIVITY (24 °C) 0.033–0.039 W/m·K	MAX USE TEMPERATURE 750 °C	MELTING TEMPERATURE >1000 °C
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1 · AVAILABLE SIZES

THICKNESS (MM)	WIDTH (MM)	LENGTH (MM)	M ² / PIECE
30–200	400	1200	0.48
30–200	600	1000	0.60
30–200	600	1200	0.72
30–200	1200	1200	1.44
30–200	1200	2000	2.40
30–200	1200	2400	2.88

Standard size is 1.2 m × 0.6 m. Other dimensions are available on request across the full thickness range of 30–200 mm.

2 · PHYSICAL PROPERTIES

PROPERTY	PERFORMANCE	TEST STANDARD
Density	40–200 kg/m³	ASTM C303
Thermal conductivity	0.033–0.039 W/m·K @ 24 °C	ASTM C518 / C177
Maximum use temperature	750 °C	ASTM C411 / C447
Surface burning characteristics	Flame Spread Index 0 · Smoke Developed Index 0	ASTM E84
Combustibility	Non-combustible at 750 °C	ASTM E136
Water vapour sorption	< 0.5 %	ASTM C1104 / 1104M
Corrosion resistance	Stress corrosion (austenitic stainless steel) — Pass · Steel — Pass	ASTM C795 / C665
Fungi resistance	Mildew proof	ASTM C1338
Odour emission	No objectionable or strong odour	ASTM C1304
Environment & health	Asbestos-free	HJ/T206 · ISO 22262-1 · NIOSH 9002
Melting temperature	> 1000 °C	DIN 4102-17

3 · CERTIFICATIONS & TESTING

ISOROCK rock wool board is independently tested by **QAI Laboratories** at its IAS-accredited facility in Tulsa, Oklahoma. QAI is accredited by the International Accreditation Service (IAS) for testing (ISO/IEC 17025), inspection (ISO/IEC 17020), and certification (ISO/IEC 17065). The product complies with the requirements of **CAN/ULC-S702.1 for Type 1 thermal insulation**, across densities of 60–128 kg/m³.

S702.1 CAN/ULC Type 1 thermal insulation, 60–128 kg/m³	FSI · 0 Flame Spread Index — ASTM E84	SDI · 0 Smoke Developed Index — ASTM E84	E136 Non-combustible at 750 °C
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4 · PERFORMANCE ADVANTAGES

- Excellent thermal resistance — improves building energy efficiency.
- Non-combustible, flame-retardant, waterproof, and soundproof.
- Resistant to ageing across the full service life.
- Lightweight — easy to handle and install on site.
- High sound absorption with no fastener corrosion.
- Energy-saving and benign for occupants and the environment.
- Asbestos-free; no objectionable or strong odour.
- Designed to last the lifetime of the building.

5 · APPLICATIONS

FRAMED EXTERNAL WALLS Cavity infill in stud assemblies.	INTERNAL PARTITIONS Acoustic and fire-rated separation.	SEPARATING WALLS STC-grade isolation between dwellings.
PITCHED ROOFS Continuous insulation between or above rafters.	OVER-DECK ASSEMBLIES High-compressive applications above structural decks.	SEPARATING FLOORS Acoustic and fire separation between storeys.
TIMBER-SUSPENDED FLOORS Thermal insulation between joists.	SANDWICH PANEL CORES Pre-fabricated wall and roof panels.	DRYWALL PARTITIONS Cavity infill behind gypsum.

6 · FORMS, FACINGS, PACKAGING & STORAGE

FORMS & FACINGS

Supplied as **board, blanket, or pipe**. Available facings: **FSK, foil, wire mesh, or steel wire**.

PACKAGING

Hot-shrink PE bags. Pallet packaging available on request.

STORAGE

Store in a clean, dry environment between **0 °C and 35 °C**, with relative humidity between **50 % and 70 %**.

PRODUCTION

Manufactured on fully automatic, latest-generation rock wool production systems. Annual capacity exceeds **150 000 tonnes**.

This data sheet summarises typical performance values. Project-specific values may vary with density, thickness, and assembly. For project submittals, request the official QAI Laboratories test report and a project-specific certification letter from **info@isorock.com**.

ISOROCK

Premium-grade mineral insulation.
Engineered from basalt. Built for North American construction.

CONTACT

info@isorock.com
+1 514 830 7833

DOCUMENT

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