

CCEWOOL® Stone Wool Board for Fabrication



Classification Temperature: 750°C (1382°F)

Chemical Composition: Basalt

CCEWOOL® Stone Wool Board for Fabrication is an engineering-grade rigid insulation board developed for industrial equipment insulation and structural applications. Made primarily from natural minerals such as basalt and dolomite, it is produced through high-temperature melting, fiberization, and continuous forming. Its uniform porous fiber structure provides reliable thermal

insulation, sound absorption, and mechanical strength for long-term industrial service.

Compared with standard insulation-grade stone wool boards, CCEWOOL® Stone Wool Board for Fabrication features tighter control of density, fiber distribution, and dimensional consistency. The more uniform and stable board structure provides better material consistency and structural integrity for demanding industrial applications.

The board is A1 non-combustible and provides reliable fire protection for industrial equipment and building systems. It also offers good thermal and chemical stability, helping maintain consistent insulation performance during long-term operation.

With stable board strength, uniform internal structure, and good surface flatness, CCEWOOL® Stone Wool Board for Fabrication is particularly suitable as a high-quality base material for further Fabrication processing, including cutting, grooving, and structural machining. It can be further processed into insulation components for piping systems, industrial equipment, and other engineered insulation structures.

Characteristics:

Excellent thermal and acoustic insulation;

A1 non-combustible fire performance;

Stable fiber structure with good aging resistance;

Low water absorption and good moisture resistance;

Good compressive strength and structural stability;

Excellent thermal and chemical stability;

Good vapor permeability to support moisture release;

Suitable for Fabrication processing and structural component manufacturing.

Applications:

Industrial Equipment Insulation

- Industrial steam and high-temperature process piping
- Boilers and heat-exchange equipment
- Large-diameter storage tanks and industrial equipment

Petrochemical & Energy

- Petrochemical process piping
- Power-generation and chemical-processing equipment

Marine & Offshore

- Thermal insulation and fire protection for marine equipment
- Offshore platform piping and equipment insulation

Building Insulation Systems

- Exterior wall insulation
- Curtain walls and building envelopes
- Roof insulation
- Partition wall acoustic insulation

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CCEWOOL® Stone Wool Board for Fabrication							
Performance	Unit	Density (kg/m ³)					Test Standards
Thermal conductivity (average 25°C)	W/ (m.k)	60	80	100	120	180	GB/T10295
		≤0.040	≤0.038	≤0.038	≤0.038	≤0.038	
Combustion performance	--	Class A1 non-combustion					GB8624
Hydrophobicity	%	≥99	≥99	≥99	≥99	≥99	GB/T10299
Maximum operating temperature	°C	550	650	750	750	750	GB/T17430

Recommended operating temperature	°C	450	550	650	650	650	GB50264
Heat load shrinkage temperature	°C	500	650	650	650	650	GB/T11835
Linear shrinkage	%	≤2	≤2	≤2	≤2	≤2	ASTM C356
Corrosiveness	--	No corrosion					ASTM C665