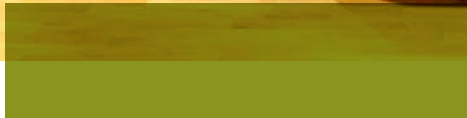




MULTIPURPOSE BOARD INSULATION

ROCKBOARD® 40/60/80

Premium Multipurpose Board Insulation
for Acoustic/Thermal Applications



ROCKBOARD® Products and Applications

Product	Density	Thicknesses	W X L	Common Applications
ROCKBOARD® 40	4 lb/ft ³ (64kg/m ³)	2", 2.5", 3", 4"	24" x 48"	Mechanical/Utility rooms
ROCKBOARD® 60	6 lb/ft ³ (96kg/m ³)	2", 3", 3.5", 4"	24" x 48"	Theaters, Recording studios, Metal roofs requiring snow load
ROCKBOARD® 80	8 lb/ft ³ (128kg/m ³)	1", 1.5", 2", 3", 4"	24" x 48"	Surfaces requiring wind load (e.g. substrate for stucco walls)

Facing Options

Facing can help to obtain optimum thermal and energy efficiency, structural integrity, and enhanced interior aesthetics with minimal cost impact on the overall project. ROCKBOARD® can be surfaced with a variety of facings to deliver the desired result. Please contact your ROCKWOOL® sales representative for our complete facing offering and technical information related to materials, permeability, light reflectance, and fire performance. Fire Resistant Insulation – Protecting both the Building and the Occupants.

Dimensional Stability

ROCKBOARD® 40 ASTM C356	Linear Shrinkage	0.47 % @ 1200 °F (650 °C)
ROCKBOARD® 60 ASTM C356	Linear Shrinkage	1.14 % @ 1200 °F (650 °C)
ROCKBOARD® 80 ASTM C356	Linear Shrinkage	0.41 % @ 1200 °F (650 °C)

Compressive Strength

	@10%	@25%
ROCKBOARD® 40 ASTM C165	90 psf (4.3 kPa)	226 psf (10.8 kPa)
ROCKBOARD® 60 ASTM C165	196 psf (9.4 kPa)	547 psf (26.2 kPa)
ROCKBOARD® 80 ASTM C165	353 psf (16.9 kPa)	794 psf (38 kPa)

Compliance and Performance

ROCKBOARD® 40 ASTM C612	Mineral Fiber Block and Board Thermal Insulation	Type IVA, Complies
ROCKBOARD® 60/80 ASTM C612	Mineral Fiber Block and Board Thermal Insulation	Type IVB, Complies

ROCKBOARD® has excellent sound-damping characteristics making it ideal for buffering the hum from noisy mechanical rooms.



ROCKWOOL ROCKBOARD® Provides Superior Sound Absorption

Acoustic Performance

ROCKWOOL stone wool insulation products are specified for high acoustical performance. There are two physical characteristics that support this result. One is the multi-directional fiber orientation, the other is the density of the products.

ROCKBOARD® products and applications are available in various densities to support different applications. ROCKBOARD® 60 in particular has exceptional energy absorbing characteristics and is effective at reducing sound transmission across a wide range of frequencies.

ROCKBOARD® has superior acoustic properties making it ideal for theaters, recording studios and other sound damping applications.



ROCKBOARD® 40 – Acoustical Performance

ASTM C423 CO-EFFICIENTS AT FREQUENCIES							
Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
2.0"	0.26	0.68	1.12	1.10	1.03	1.04	1.00
3.0"	0.63	0.95	1.14	1.01	1.03	1.04	1.05
4.0"	1.03	1.07	1.12	1.04	1.07	1.08	1.10

ROCKBOARD® 60 – Acoustical Performance

ASTM C423 CO-EFFICIENTS AT FREQUENCIES							
Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
2.0"	0.32	0.81	1.06	1.02	0.99	1.04	0.95
3.0"	0.78	0.89	1.04	0.98	1.01	1.02	1.00

ROCKBOARD® 80 – Acoustical Performance

ASTM C423 CO-EFFICIENTS AT FREQUENCIES							
Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
1.0"	0.11	0.31	0.82	1.01	1.02	1.01	0.80
2.0"	0.43	0.78	0.90	0.97	0.97	1.00	0.90
3.0"	0.75	0.82	0.89	0.94	1.00	1.00	.90

Thermal Integrity & Moisture Control

Thermal Integrity

Stone wool is naturally denser than fiberglass, and will maintain its dimensional integrity under all conditions. It will not slump, shrink, expand with temperature fluctuations or compress under light loads as competitive insulations are prone to do.

Thermal Resistance

ROCKBOARD® 40 ASTM C518 (C177)	R-value/inch @ 75 °F RSI value/25.4 mm @ 24 °C	4.2 hr.ft².F/BTU 0.74 m²K/W
ROCKBOARD® 60 ASTM C518 (C177)	R-value/inch @ 75 °F RSI value/25.4 mm @ 24 °C	4.3 hr.ft².F/BTU 0.75 m²K/W
ROCKBOARD® 80 ASTM C518 (C177)	R-value/inch @ 75 °F RSI value/25.4 mm @ 24 °C	4.0 hr.ft².F/BTU 0.70 m²K/W



ROCKBOARD® is ideal for maintaining thermal integrity and moisture control in interior applications.

Water Repellent Insulation – Will not Rot, Corrode, Promote Mold or Bacterial Growth

Moisture can cause a number of structural and/or aesthetic problems within commercial buildings. As an integral part of any building design, proper ventilation is necessary to allow any built-up condensation to drain out of the system. ROCKBOARD® stone wool insulation is water repellent, helping to deflect moisture away from the surface, alleviating potential issues.

ROCKBOARD® insulation is inorganic, and will not rot, corrode, or promote fungi or bacteria growth, which means the potential for related environmental health issues is also mitigated as a result.



Moisture Resistance

ROCKBOARD® 40/60/80 ASTM C1104	Moisture Sorption	<0.08%
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Fungi Resistance

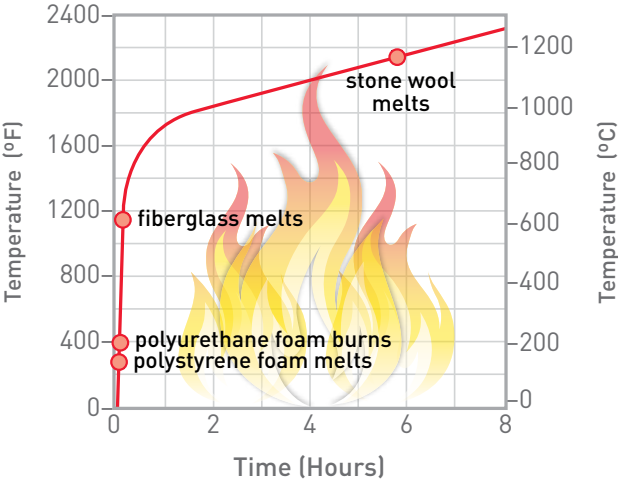
ROCKBOARD® 40/60/80 ASTM C1338	Determination of Fungi Resistance	Passed
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Fire Resistant Insulation – Protecting both the Building and the Occupants

Fire Resistance

ROCKBOARD® products are non-combustible. ROCKWOOL stone wool has an extremely high melting point of 2150 °F (1177 °C) compared to fiberglass at ~1112 °F (~600 °C), thermoplastic insulation at 160-600 °F (~70-315 °C). ROCKBOARD® products do not produce toxic smoke in the event of a fire and are an excellent barrier against the spread of flames to help protect occupants and reduce property damage.

Temperature Development in a Standard Fire (ASTM E119)



In an application where elevated temperatures are a concern, stone wool will provide greater protection than fiberglass. The maximum service temperature of stone wool insulation when tested to ASTM C411 is 1200 °F (650 °C), compared to fiberglass which is limited to a maximum service temperature of 450 °F (232 °C).

Maximum Service Temperature

ROCKBOARD® 40/60/80 ASTM C411 Hot Surface Performance In Compliance with ASTM C612 @ 1200 °F (650 °C)

Fire Performance

ROCKBOARD® 40/60/80 CAN/ULC S114	Test for Non-Combustibility	Non-Combustible
ROCKBOARD® 40/60/80 ASTM E84 (UL723)	Surface Burning Characteristics	Flame Spread = 0 Smoke Developed = 0
ROCKBOARD® 40/60/80 CAN/ULC S102	Surface Burning Characteristics	Flame Spread = 0 Smoke Developed = 0



ROCKBOARD® adds an extra degree of fire resistance around utility rooms.

At the ROCKWOOL Group, we are committed to enriching the lives of everyone who comes into contact with our solutions. Our expertise is perfectly suited to tackle many of today's biggest sustainability and development challenges, from energy consumption and noise pollution to fire resilience, water scarcity and flooding. Our range of products reflects the diversity of the world's needs, while supporting our stakeholders in reducing their own carbon footprint.

Stone wool is a versatile material and forms the basis of all our businesses. With approx. 10,500 passionate colleagues in 38 countries, we are the world leader in stone wool solutions, from building insulation to acoustic ceilings, external cladding systems to horticultural solutions, engineered fibres for industrial use to insulation for the process industry and marine & offshore.

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