



GLASSFIBER

la solución en ahorro de energía

GF - BOARD INSULATION 07210

RHT 40

ROXUL Architectural/OEM

General Product Information:

ROXUL products are mineral wool fibre insulations made from basalt rock and slag. This combination results in a non-combustible product with a melting point of approximately 2150°F (1177°C), which gives it excellent fire resistance properties. ROXUL mineral wool is a water repellent yet vapour permeable material. It absorbs water only when water is pressed or forced into the material and once the pressure is relieved, the water will evaporate without any loss of integrity to the material's shape or insulating properties.

Compliance and Performance

ASTM C 612, Mineral Fiber Block and Board Thermal Insulation - Type IVA, Complies.

CAN/CGSB 51.10-92, Mineral Fibre Board Thermal Insulation - Type 2, Class 4.

MEA Approval, New York City Approval - 330-97-M.

City of Los Angeles Approval - R25444.

Fire Performance

ASTM E 136, Behaviour of Materials at 750°C (1382°F) - Non-Combustible.

CAN4 S114, Test for Non-Combustibility - Non-Combustible.

UL 723, Surface Burning Characteristics - Flame Spread = 0.

(*ASTM E 84*) - Smoke Developed = 0.

CAN/ULC S102, Surface Burning Characteristics - Flame Spread = 0,

Smoke Developed = 0.

Maximum Service Temperature

ASTM C 411, Hot Surface Performance - No Reaction @ 1200°F (650°C).

Dimensional Stability

ASTM C 356, Linear Shrinkage - 1.92% @ 1200°F (650°C).

Moisture Resistance

ASTM C 1104, Moisture Sorption - 0.03%.

Description & Common Applications:

The RHT 40 product is a non-combustible, rigid mineral wool insulation board that is water repellent and delivers exceptional life cycle performance and value in a diversity of thermal, acoustic and fire protection applications. RHT 40's lighter density affords ease of installation and fabrication for general commercial construction. The product's excellent moisture resistance, non-combustibility and dimensional stability make it the ideal choice for cavity wall assemblies and curtain wall applications. The demands of OEM applications ranging from transportation, equipment specifications and acoustical designs benefit from the product's low shot content and ease of handling.

Corrosion Resistance

ASTM C 665, Corrosiveness to Steel - Passed.

ASTM C 795, For use with Austenitic Stainless Steel - No Reaction.

ASTM C 871, Chemical Analysis - Passed.

Thermal Resistance

ASTM C 518 (C 177), R-value @ 75°F (24°C) - 4.2/inch.

k-value @ 75°F (24°C) - 0.24 Btu.in/ft².hr.°F.

Density:

ASTM C 612-93 - Nominal - 4.0 lbs/ft³
64 kg/m³.

ASTM C 612-00 - Actual - 3.5 lbs/ft³
56 kg/m³.

Compressive Resistance:

ASTM C 165

at 10%: 63 psf (3 kPa)

at 25%: 146 psf (7 kPa)

Key Application Qualifiers:

- Easy to install
- Service temperature 1200°F (650°C)
- Non-combustible
- Can be fabricated/laminated
- Low moisture sorption
- Good compressive resistance
- Non-corrosive
- Chemically inert
- CFC and HCFC free product and process
- Made from natural & recycled materials

Acoustical Performance:

ASTM C 423 CO-EFFICIENTS AT FREQUENCIES							
THICKNESS	125	250	500	1000	2000	4000	NRC
1.0"	0.15	0.47	.98	1.06	1.02	1.02	0.90
1.5"	0.26	0.68	1.14	1.13	1.06	1.07	1.00
2.0"	0.62	1.03	1.20	1.10	1.08	1.10	1.00
3.0"	1.07	1.01	1.07	1.06	1.07	1.06	1.05



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Facings:

This product can be faced with reinforced foil, ASJ and glass mat facings. **Please note that the facings will influence the product's service temperature range.**

Other ROXUL Products:

Please consult ROXUL for all your insulation needs. We have an extensive range of products for all applications from pipe insulation to commercial products to residential batts. ROXUL invites all inquiries and will act promptly to service all of your requirements.

Note:

As ROXUL Inc. has no control over installation design and workmanship, accessory materials or application conditions, ROXUL Inc. does not warranty the performance or results of any installation containing ROXUL Inc's products. ROXUL Inc's overall liability and the remedies available are limited by the general terms and conditions of sale. This warranty is in lieu of all other warranties and conditions expressed or implied, including the warranties of merchantability and fitness for a particular purpose.

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