



# GLASSFIBER

la solución en ahorro de energía

**GF - BOARD INSULATION 07210**

**RHT 80**

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 IVB, Complies.  
*CAN/CGSB 51.10-92*, Mineral Fibre Board Thermal Insulation - Type 1, Class 4.  
*MEA Approval*, New York City Approval - 331-97-M.  
 City of Los Angeles Approval - R25444.  
*UL Design Nos.*, CW-S-2004, 2005, 2007, 2009, 2010, 2011, 2015, 2016, 2017, 2018, 2019, & 2020.

### 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.  
*FMVSS 302*, Motor Vehicle Safety Test Method - Passed.

### Maximum Service Temperature

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

### Dimensional Stability

*ASTM C 356*, Linear Shrinkage - 1.24% @ 1200°F (650°C).

### Moisture Resistance

*ASTM C 1104*, Moisture Sorption - 0.04%.

### Description & Common Applications:

The RHT 80 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 80's excellent moisture resistance, non-combustibility and dimensional stability make it the ideal choice for curtain wall applications. The product can be specified with confidence in a variety of building envelope designs, parking garages, acoustic and OEM applications.

### 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/ft<sup>2</sup>.hr.°F.

### Density:

*ASTM C 612-93* - Nominal - 8.0 lbs/ft<sup>3</sup>  
 128 kg/m<sup>3</sup>.  
*ASTM C 612-00* - Actual -  
 1" thickness - 7.4 lbs/ft<sup>3</sup> 118 kg/m<sup>3</sup>  
 >= 1.5" thickness - 5.9 lbs/ft<sup>3</sup> 94 kg/m<sup>3</sup>

### Compressive Resistance:

*ASTM C 165*  
 at 10%: 167 psf (8 kPa)  
 at 25%: 334 psf (16 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
	Hz	Hz	Hz	Hz	Hz	Hz	
1.5"	0.17	0.58	1.06	1.07	1.00	0.99	0.95
2.0"	0.39	0.84	1.08	1.01	1.02	1.01	1.00
3.0"	0.68	0.92	1.08	1.03	1.03	1.03	1.00
4.0"	1.00	0.95	1.06	1.04	1.06	1.08	1.05



**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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