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.

Description & Common Applications:

The RHT® 80 product is a non-combustible, rigid mineral wool insulation board that is water repellent and designed for high temperature applications where durability and compressive resistance are required. Common application areas for the RHT series of board insulation include storage tank insulations, drying/oven equipment, petro-chemical and power generating equipment protection where high temperature, fire resistance, and moisture resistance are concerns.

Compliance and Performance:

<table>
<thead>
<tr>
<th>Standard</th>
<th>Description</th>
<th>Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM C 612</td>
<td>Mineral Fiber Block and Board Thermal Insulation</td>
<td>Type IVB, Complies</td>
</tr>
<tr>
<td>MEA Approval</td>
<td>New York City Approval</td>
<td>332-97-M</td>
</tr>
<tr>
<td>City Of Los Angeles Approval</td>
<td></td>
<td>RR 25444</td>
</tr>
</tbody>
</table>

Fire Performance:

- ASTM E 136: Behaviour of Materials at 750°C (1382°F) - Non-Combustible
- CAN4 S114: Test for Non-Combustibility - Non-Combustible
- ASTM E 84(UL 723): Surface Burning Characteristics
- CAN/ULC S102: Surface Burning Characteristics

Maximum Service Temperature:

- ASTM C 411: Hot Surface Performance - In Compliance with ASTM C612 @ 1200°F (650°C)

Dimensional Stability:

- ASTM C 356: Linear Shrinkage - <1% @ 1200°F (650°C)

Moisture Resistance:

- ASTM C 1104: Moisture Sorption - 0.04%

Thermal Resistance:

- ASTM C 518 (C 177): R-value/inch @ 75°F - 4.2 hr.ft².F/Btu***
- RSI value/25.4 mm @ 24°C - 0.74 m²K/W

Corrosive Resistance:

- ASTM C 665: Corrosiveness to Steel - Pass

Acoustical Performance

<table>
<thead>
<tr>
<th>Thickness</th>
<th>125 Hz</th>
<th>250 Hz</th>
<th>500 Hz</th>
<th>1000 Hz</th>
<th>2000 Hz</th>
<th>4000 Hz</th>
<th>NRC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5&quot;</td>
<td>0.17</td>
<td>0.58</td>
<td>1.06</td>
<td>1.07</td>
<td>1.00</td>
<td>0.99</td>
<td>0.95</td>
</tr>
<tr>
<td>2.0&quot;</td>
<td>0.39</td>
<td>0.84</td>
<td>1.08</td>
<td>1.01</td>
<td>1.02</td>
<td>1.01</td>
<td>1.00</td>
</tr>
<tr>
<td>3.0&quot;</td>
<td>0.68</td>
<td>0.92</td>
<td>1.08</td>
<td>1.03</td>
<td>1.03</td>
<td>1.03</td>
<td>1.00</td>
</tr>
<tr>
<td>4.0&quot;</td>
<td>1.00</td>
<td>0.95</td>
<td>1.06</td>
<td>1.04</td>
<td>1.06</td>
<td>1.08</td>
<td>1.05</td>
</tr>
</tbody>
</table>

*MASTER FORMAT 1995 EDITION **MASTER FORMAT 2004 EDITION
*** at the time of manufacturing
Thermal Conductivity:

![Graph of Thermal Conductivity](image1)

Compressive Strength:
ASTM C 165 at 10%: 167 psf (8 kPa)
at 25%: 334 psf (16 kPa)

Density:
ASTM C 612-93 - Nominal 8.0 lbs/ft³ 128 kg/m³
ASTM C 612-00 - Actual ≥ 1.5” thickness 5.8 lbs/ft³ 93 kg/m³

Dimensions:
24” (width) x 48” (length)
610 mm (width) x 1219 mm (length)

Thickness:
Product thickness is available in 1” through 5” in 1/2” increments

Dimensions:
36” (width) x 48” (length)
914 mm (width) x 1219 mm (length)

Thickness:
Product thickness is available in 1.5”, 2” and 3”

For additional sizes, please contact our customer service representatives.

Facing:
This product can be faced with reinforced foil. **Please note that the facing will influence the product’s service temperature range.**

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

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.

**** “Provisions for lot testing may be required, consult manufacturer.”

Note:
As ROXUL Inc. has no control over installation design and workmanship, accessory materials or application conditions, ROXUL Inc. does not warrant 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.

ROXUL INC. Milton, Ontario Tel: 905-878-8474 Fax: 905-878-8077
www.roxul.com Tel: 1-800-265-6878 Fax: 1-800-991-0110
Revised: March 30, 2010
Supersedes: March 10, 2009