

#### General Product Information:

ROXUL<sup>®</sup> 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:

RHT40<sup>™</sup> is a non-combustible, semi-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.

#### 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		R 25444

#### 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	Flame Spread = 0
		Smoke Developed = 0
CAN/ULC S102	Surface Burning Characteristics	Flame Spread = 0
		Smoke Developed = 0

#### Maximum Service Temperature:

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

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

ASTM C 1104	Moisture Sorption	0.03%
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#### Corrosion Resistance:

ASTM C 665	Corrosiveness to Steel	Passed
ASTM C 795 *	Stainless Steel Stress Corrosion Specification as per Test Methods C871 and C692: U.S. Nuclear Regulatory Commission, Reg. Guide #1.36: U.S. Military Specifications MIL-I-24244 (all versions including B and C)	Conforms

#### Thermal Resistance:

ASTM C 518 (C 177)	R-value/inch @ 75°F	4.2 hr.ft <sup>2</sup> .F/Btu
	RSI value/25.4 mm @ 24°C	0.75 m <sup>2</sup> K/W

# RHT™40 Architectural/OEM

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## Acoustical Performance:

Thickness	ASTM C 423 CO-EFFICIENTS AT FREQUENCIES						
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
1.5"	0.15	0.47	0.98	1.06	1.02	1.02	0.90
2.0"	0.26	0.68	1.14	1.13	1.06	1.07	1.00
3.0"	0.62	1.03	1.20	1.10	1.08	1.10	1.10
4.0"	1.07	1.01	1.07	1.06	1.07	1.06	1.05

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## Density:

ASTM C 612-93 - Nominal - 4.0 lbs/ft<sup>3</sup> 64 kg/m<sup>3</sup>

ASTM C 612-00 - Actual - 3.5 lbs/ft<sup>3</sup> 56 kg/m<sup>3</sup>

## Compressive Strength:

ASTM C 165

at 10%: 63 psf (3 kPa)

at 25%: 146 psf (7 kPa)

## 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.**



## Key Application Qualifiers:

- Easy to install
- Water repellent
- Non-combustible
- Can be fabricated/laminated
- Acoustic isolation/sound absorption
- Excellent thermal resistance
- Low moisture sorption
- 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 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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