

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:

RHT[™]80 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.

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	332-97-M
City Of Los Angeles Approval		R 25444
UL Design Nos.	CW-S-1008, 1009, 1012, 1014, 2004,2005,2007,2009, 2010, 2011, 2012, 2015, 2016,2017,2018, 2019, 2020, 2024, 2027, 2028, 2029, 2030, 2031, 2032, 2037, 2038, 2042, 2043, 2053, 2054, 2055, 2056, 2057 CW-D-2007, 2014, 2015, 2016, 2017, 2018, 2019, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033	2 Hour Integrity Rating

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	0.04%
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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 ² .F/Btu
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RHT™80 Architectural/OEM

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"	0.17	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	1.10
4.0"	1.00	0.95	1.06	1.04	1.06	1.08	1.05

Density:

ASTM C 612-93 - Nominal - 8.0 lbs/ft ³	128 kg/m ³
ASTM C 612-00 - Actual - 1" thickness	7.4 lbs/ft ³ 118 kg/m ³
≥ 1.5" thickness	5.9 lbs/ft ³ 94 kg/m ³

Compressive Strength:

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

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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