

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 vapor permeable material.

Description & Common Applications:

ROXUL FIREWALL[®] 1HR is a non-combustible, rigid, mineral wool insulation board that is designed for use as a component in non-combustible wall assemblies that subdivide a building or separate adjoining buildings. FIREWALL[®] 1HR board insulation may be used for fire rated exterior and interior non-load bearing steel faced walls, where a one hour fire resistance rating is required from one side or both sides of the wall.

Compliance and Performance:

ASTM C 612	Mineral Fiber Block and Board Thermal Insulation	Type IVB, Complies
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ULC Designs	ULC one hour fire rated from interior side	<i>W605</i>
	ULC one hour fire rated from both sides	<i>W610</i>

Follow the ROXUL website links for ULC Fire Resistance Directory Assembly Details or reference the ULC online directory at:
<http://database.ul.com/cgi-bin/XYV/template/LISCANADA/1FRAME/index.html>

UL Designs	UL one hour fire rated from interior side	U654
	UL one hour fire rated from both sides	U658

Follow the ROXUL website links for UL Fire Resistance Directory Assembly Details or reference the UL online directory at:
<http://database.ul.com/cgi-bin/XYV/cgifind.new/LISEXT/1FRAME/index.html>

Fire Performance:

CAN/ULC-S114	Test for Non-Combustibility	Non-Combustible
ASTM E 136	Behavior of Materials at 750°C (1382°F)	Non-Combustible
CAN/ULC-S102	Surface Burning Characteristics	Flame Spread = 0
ASTM E 84 (UL 723)	Surface Burning Characteristics	Flame Spread = 0

Moisture Resistance:

ASTM C 1104	Moisture Sorption	0.04 %
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Dimensional Stability:

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

ASTM C 518 (C 177)	R-value/inch @ 75°F	4.2 hr.ft ² .F/Btu
	RSI value/25.4 mm @ 24°C	0.74 m ² K/W

Corrosive Resistance:

ASTM C 665	Corrosiveness to Steel	Pass
ASTM C 795 ***	Stainless Steel Stress Corrosion Specification	Conforms

Dimensions:

24" (610 mm) width x 48" (1219 mm) length

31.5" (800 mm) width x 48" (1219 mm) length

32" (813 mm) width x 48" (1219 mm) length

Thickness:

3" (76 mm) thickness

Key Application Qualifiers:

- Lightweight
- Easy to install
- Dimensionally stable
- Non-combustible
- Excellent thermal resistance
- Performs over wide temperature ranges
- Low moisture sorption
- Non-corrosive
- Chemically inert
- 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.

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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