

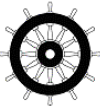
General Product Information:

Roxul® Inc. 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 endurance properties. ROXUL mineral wool marine boards and blankets are water repellent yet vapour permeable materials. Installations on below ambient, cool surfaces will require a vapour retarder system.

Description & Common Applications:

Roxul® Inc. manufactures a series of non-combustible mineral wool insulation products designed for thermal and fire protection required in marine applications. Its products have been tested by the SOUTHWEST RESEARCH INSTITUTE® to comply with the latest IMO/FTP Code and have Certificates of Approvals from the United States Coast Guard, Transport Canada, Lloyd's Register and carries the European Wheel Mark. The RHM series of marine insulations are manufactured in 3 through 10 pounds per cubic foot (48 through 160 Kg/m³) densities. In addition, RHM Series Marine Board & Blanket insulations are suitable to a full range of temperature applications including boilers, vessels, tanks, ducts, ovens, mufflers, and exhaust stacks.

United States Coast Guard, Transport Canada, Lloyd's Register & European Certificates of Approval

RHM Series Marine Board, Actual Density & Installed Thickness	U.S. Coast Guard Certificate of Approval Numbers	Transport Canada Certificate of Approval Numbers	Lloyd's Register Certificate of Approval Numbers	Steel Bulkhead & Steel Deck Installation "A" Class Divisions	European Certification  1408/05
For Non-Combustibility: Per IMO A.799 / ISO 1182:1990 RHM 30A 3 lb/ft ³ (48 Kg/m ³) through RHM 100A 10 lb/ft ³ (160 Kg/m ³), and RHM 60AC 6 lb/ft ³ (96 Kg/m ³) All Thickness	164.109/26/0 and Equivalency approval for 46 CFR 164.009	T.C.261.F1.322	SAS F040368 / M1	"Non-combustible"	1408/05
"A-60" Class Steel Bulkhead Per IMO/FTP Code A.754 (18) RHM 60A 6 lb/ft ³ (96 Kg/m ³) Install 3" (76 mm) thickness on Structural Core of Bulkhead Install 1½" (38 mm) thickness on Stiffeners. See typical installation.	164.107/16/0 6-10 lb/ft ³ (96-160 kg/m ³) Also Approved	T.C.261.A1.282	SAS F040366	Class "A-60"	1408/05 6-10 lb/ft ³ (96-160 kg/m ³) Also Approved
"A-60" Class Steel Deck Per IMO/FTP Code A.754 (18) RHM 60A & 6 lb/ft ³ (96Kg/m ³) and RHM 60AC 6 lb/ft ³ (96 Kg/m ³) Install 2" (50 mm) thickness on Underside Structural Core of Deck Install 1½" (38 mm) thickness on Stiffeners. See typical installations.	164.107/17/0 and Equivalency approval for 46 CFR 164.007 for Bulkheads and Decks 6-10 lb/ft ³ (96-160 kg/m ³) Also Approved	T.C.261.A1.283	SAS F040365	Class "A-60"	1408/05 6-10 lb/ft ³ (96-160 kg/m ³) Also Approved

Standard Dimensions: (Contact manufacturer for custom widths and lengths)

Marine Insulation Product Name	Standard Thickness	Width & Length
RHM 30A, RHM 40A, RHM 60A, RHM 70A, RHM 80A, and RHM 100A Marine Boards	1" (25mm) through 4"(102mm)	24" (610 mm) x 48" (1219 mm)
RHM 60AC Roller Crushed Marine Blanket	1" (25mm), 1½"(38mm), and 2"(51 mm)	36" (914mm) x 48" (1219 mm)

RHM Marine Board & Blanket Insulation

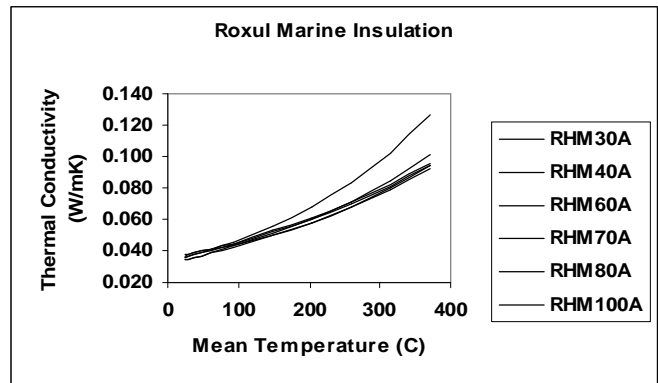
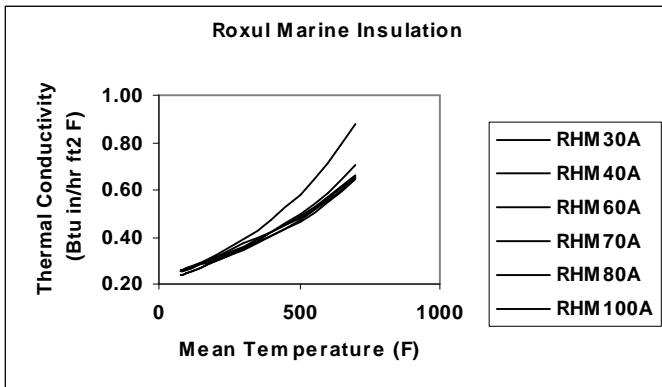
Physical Properties:

Maximum Continuous Use Temperature - (ASTM C 411):.....	1200° F (649° C)
RHM 30A thru RHM 100A Board - Actual Density Range:.....	3 thru 10 lb/ft3 (48 - 160 kg/m3)
RHM 30A thru RHM 100A Board - (ASTM C 1101/C 1101M):.....	Semi-Rigid Board Classification
RHM 60AC Roller Crushed Blanket - Actual Density:.....	6 lb/ft3 (96 kg/m3)
RHM 60AC Roller Crushed Blanket - (ASTM C 1101/C 1101M):...	Flexible Blanket
Corrosion to Steel, Copper Aluminum - (ASTM C 665):.....	None
Moisture Sorption - (ASTM C 1104/C1104M):.....	Less than 0.1%
Austenitic Stainless Steel Stress Corrosion - (ASTM C 795*, Test method C 871, C 692 and NRC Reg. Guide #1.36*):.....	Complies and/or tested for compliance
Non-combustibility - (Part 1 in Annex 1 of IMO/FTP MSC.61(67), IMO A.799, ASTM E 136, CAN4-S114):.....	Rated as Non-Combustible
Surface Burning Characteristics - (ASTM E-84, UL 723, CAN/ULC-S102)	<5/0, Flame/Smoke
Fungi Resistance - (ASTM C 665):.....	Does not promote growth

* Provisions for lot testing may be required. Consult the manufacturer.

Thermal Conductivity:

Thermal Conductivity per Test Method ASTM C 177 & C 518 with C 1045 Calculations



Specifications:

"Non-combustible" Part 1 of Annex 1 in IMO / FTP Code-Resolution MSC.61(67); **IMO Resolution A.799**; ISO 1182:1990 Test Procedure referenced in Part 1 of Annex 1 of IMO / FTP Code; 46 CFR Part 164.009; IMO Resolution A.472 (XII)

"A-60" Class Division referenced in IMO/FTP Code Resolution MSC.61(67) per **IMO Resolution A.754(18)**

"A-60" Criteria per 46 CFR Part 164.007 - Use USCG Certificate of Approval Number 164.107/17/0

ASTM C 612-00a, Types IA, 1B, II, III, IVA and/or IVB, Marine Board Product dependent on different Types.

ASTM C 553-00, Types I through VII for RHM 60AC Marine Blanket only at standard thickness.

U.S. Federal Specification **HH-I-558B & HH-I-558C**

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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Revised: June 24, 2005
 Supersedes: November 26, 2004