THERMAFIBER® A60 MARINE BOARD MINERAL WOOL INSULATION

Thermafiber® A60 Marine Board is a mineral fiber insulation designed to provide passive structural fire protection aboard steel vessels required to meet offshore fire requirements. These products are non-combustible, moisture-resistant, non-corrosive, non-deteriorating, and mildew-resistant.

Thermafiber® A60 Marine Board insulation provides thermal insulation and fire resistance rating as certified per the U.S. Coast Guard A60 Rating for steel bulkheads and under steel decks in compliance with the IMO FTP Code, Part 1 and Part 3.

Features

- Reduces heat transfer, which may help lower operating costs
- Resists damage and maintains structural integrity and efficiency
- Efficiently reduces sound transmission
- Resilient, easy to handle and fabricate on the job site
- Continuous service up to 1200°F (650°C)
- Easily fabricated and installed
- Non-combustible per 164.109
- Excellent thermal performance and resiliency
- Dimensionally stable at elevated temperatures
- Non-corrosive
- Formaldehyde-Free

Standards, Codes Compliance

- ASTM C612, Mineral Fiber Block & Board Thermal Insulation – Marine Board: Type IVB
- U.S. Coast Guard A-60 Class Bulkhead and Steel Deck 164.107/28/0
- ASTM C795, Thermal Insulation for Use in Contact with Austenitic Stainless Steel[1]
- MIL-DTL-32585, Insulation, Thermal and Acoustic, Fibrous Glass; Type I and II; Form 1; Facing A
- MIL-DTL-24244D (Ships) Insulation Material with Special Corrosion, Chloride, and Fluoride Requirements[1]

1 Preproduction qualification testing complete and on file. Chemical analysis of each production lot required for total conformance. Certification needs to be specified at time of order.

Acoustical Performance

TESTED TO ASTM C423 & E795

THICKNESS (IN.)	SOUND ABSORPTION COEFFICIENTS AT OCTAVE BAND CENTER FREQUENCIES (Hz)						
	125	250	500	1000	2000	4000	NRC
2	0.23	0.99	1.10	1.07	1.03	1.08	1.05

Physical Properties

PROPERTY	TEST METHOD	VALUE
Density	ASTM C303	Actual: 6.2 pcf (100kg/m^3)
Maximum Use Temperature[2]	ASTM C411	0 to 1200°F (-18 to 649°C)
Compressive Strength (minimum) at 10% deformation	ASTM C165	3" Thickness at 10% = 267 lb/ft^2
Linear Shrinkage	ASTM C356	<1.0% at 1200°F (649°C)
Water Vapor Sorption	ASTM C1104	<1% by weight at 120°F (49°C), 95% R.H.
Fungi Resistance	ASTM C1338	Pass – No Growth
CORROSION RESISTANCE	**TEST METHOD**	**VALUE**
Corrosion to Copper and Aluminum	ASTM C665	Pass – both metals
Corrosion to Steel	ASTM C1617	Pass
Stress Corrosion Evaluation on External Stress Corrosion Cracking Tendency of Austenitic Stainless Steel	ASTM C795 and ASTM C692	Pass
Chemical Analysis for Cl-, Fl-, Na+, SiO3	ASTM C795 and ASTM C871	Results fall within acceptability limits
(Ships) Insulation Material with Special Corrosion, Chloride, and Fluoride Requirements	MIL-DTL-24244D	Pass
FIRE	**TEST METHOD**	**VALUE**
Non-Combustibility	ASTM E136	Pass
Non-Combustibility	CAN/ULC S114	Pass
Non-Combustibility	ISO 1182	Pass
Smoldering	CAN/ULC S129	Pass
Surface Burning Characteristics[3]	UL 723, ASTM E84 and CAN/ULC S102	Flame Spread Index 0 Smoke Developed Index 0

2 Test thickness at 3 inches (102mm).
3 The surface burning characteristics of these products have been determined in accordance with UL 723, ASTM E84, and CAN/ULC-S102. Values are reported to the nearest 5 rating.

Applications

- Fire-resistant insulation for bulkheads and under decks

Availability

PRODUCT	THICKNESS	WIDTHS	LENGTHS
A60 Marine Board	1.5" (38 mm) 2" (51 mm) 3" (75 mm) 4" (101.6 mm)	24" (610 mm) 36" (914 mm)	48" (1,220 mm)

Installation

Install per Owens Corning® Thermafiber® A60 Bulkheads and Deck Manual; Pub No. 10024012.

Thermal Conductivity

TESTED TO ASTM C177 (K-VALUE – BTU · IN/HR · FT² · °F)

PRODUCT	MEAN TEMPERATURE °F							
	75	100	200	300	400	500	600	700
A60 Marine Board	0.23	0.24	0.28	0.33	0.39	0.45	0.53	0.62

Environmental and Sustainability

Owens Corning is a worldwide leader in building material systems, insulation, and composite solutions, delivering a broad range of high-quality products and services.

Owens Corning is committed to driving sustainability by delivering solutions, transforming markets, and enhancing lives. More information can be found at www.owenscorning.com.

Certifications and Sustainable Features

- Certified by ICC-ES to contain a minimum of 70% recycled content.
- GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg.
- Environmental Product Declaration (EPD) has been certified by UL Environment.
- Meets Class A-60 criteria for steel bulkhead insulation and steel deck insulation certified by Southwest Research Institute® (SwRI®).
- UL and the UL logo are trademarks of UL LLC.

Notes

For additional information, refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via http://sds.owenscorning.com.

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