TRELLEBORG
ENGINEERED SYSTEMS

UMI-1075

HIGH-PERFORMANCE THERMAL & ACOUSTIC FIBRE INSULATION

Trelleborg Applied Technology - Energy Control Products
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DOWMARINE THERMAL AND ACOUSTIC FIBRE INSULATION UMI-1075

Benefits over traditional insulation materials:

- Ultra Light Weight: 20% weight saving over conventional insulation
- Good thermal and acoustic properties
- Water Repellent
- Non-Combustible
- User Friendly – Does not readily give of dust or fibres
- Low weight makes it easily to man handle and install
- Flexible enough to bend around Bulbs and T frames
- Close Tolerance Micro-Fibre diameter which makes UMI1075 thermally & acoustically consistent
- Available in 25mm, 50mm, 75mm thickness
- Available with Glass-Cloth finish

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CUSTOMER ACCEPTANCE STANDARD

Product code: UMI 1075WR
Revision: 01
Issued: 04/14/2003

1. DESCRIPTION

UMI 1075 Marine Insulation is a light weight, water repellent, glass fiber hull board, for use as a thermal and acoustical insulation in marine applications. The product is produced by a flame attenuation process incorporating a flame retardant, thermoset binder system. UMI 1075 can be supplied faced or un-faced

2. CHARACTERISTICS

1. UMI 1075 Marine Insulation products are manufactured with controlled fibre diameter and density to insure consistent thermal and acoustical performance.
2. Maximum performance temperature for un-faced products is 232ºC (450ºF)
3. Products are essentially free of defects, glass slugs, foreign materials or areas of delamination.

3. PROPERTIES

UMI 1075 Marine Insulation products meet the performance requirements of:
MIL-I-742F, Mil-I-22023D and DOD-I-24688.

Density (Un-Faced)	Thickness	Length	Width
13KgM³	1″, 2″ ±1/8″	36″, 38″, 48″ ±1/4″	24″ ±1/4″

Custom sizes are available on request.

4. Performance Facings

UMI 1075 Marine Insulation is available faced with glass fiber cloth, perforated cloth, white Mylar film and other specialty facings as needed to meet performance requirements.

5. Packaging and Labeling

Products are packaged in cardboard boxes identified with product code and description. Non standard packaging is available.

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Sound Absorption Coefficient ASTM C423-02 (Reverberation Room Method)						
Frequency	Un- Faced		Perforated Glass Fiber Cloth Faced		White Mylar Film Faced	
HZ	**1″**	**2″**	**1″**	**2″**	**1″**	**2″**
125	0.06	0.15	0.08	0.30	0.11	0.23
250	0.15	0.42	0.29	0.78	0.22	0.72
500	0.73	1.20	0.75	1.28	0.87	1.17
1000	1.00	1.10	1.08	1.10	0.96	0.85
2000	1.07	1.05	0.97	0.99	0.49	0.68
4000	1.07	1.07	0.76	0.87	0.24	0.29
NRC	0.75	0.95	0.75	10.5	0.65	0.85

Thermal Properties ASTM C177-97 (Guarded Hot Plate Apparatus)			
Test	**Units**	**Glass Fiber Cloth Faced**	**Un-Faced**
		1″	**2″**
Conductivity, k	Btu-in/hr-ft²-°F	0.269	0.280
Resistivity, R	Hr-ft²-°F/btu	3.719	6.973

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