Glass Fibre hull board Insulation

TMI 5000

Trelleborg TMI 5000 is ultra-lightweight, flexible, thermal and acoustic insulation. Designed for use where low density and weight saving along with high Thermal and Acoustic performance are a critical consideration.

Non-Combustible (ISO 1182) TMI 5000 uses a water repellent thermosetting binder which is flame resistant and maintains its shape while providing excellent dimensional stability. TMI 5000 is water repellent and ideal in areas where high moisture condensation may occur.

Benefits.

- Extremely lightweight - translating into fuel savings and efficiency
- Superior fire resistance - emits virtually no smoke or incapacitating toxic bi-products when exposed to an open flame
- Acoustic and thermal insulation - provides excellent acoustic absorption and thermal insulation properties
- Easy installation - lightweight, easy to cut and fit

Advantages.

Trelleborg TMI 5000 offers superior acoustic and thermal performance versus the weight of insulation used. TMI 5000 are phenolic bonded, noncombustible - ISO 1182 (in glass cloth faced formats), and easily meets the most stringent smoke density, smoke toxicity and heat release standards. Because TMI 5000 is non-cellular and moisture-resistant, it will not support biological growth. It will also provide excellent stability with age. Highly resilient glass fibres prevents vibrational settling while retaining their excellent sound attenuation and thermal properties.

Availability and fitting.

TMI 5000 is available in sheets measuring 1220mm x 610mm x 25mm or 50mm. The material is recommended to be pinned to Deckhead and Bulkheads. It is also easy to form around frame stiffeners. Outstanding Hull insulation material where considerations for performance and top side weight are vital.

Properties.

Non-Combustible (ISO 1182) in Faced and Unfaced formats

Superior Thermal Performance

Excellent Acoustic performance

Provide optimum thermal and acoustic insulating

Performance for applications up to 232°C

Water Repellent

Very Low Heat Transfer

Exceptionally Low Smoke and Toxicity

Bio soluble Chemistry

Applications.

Marine hull board

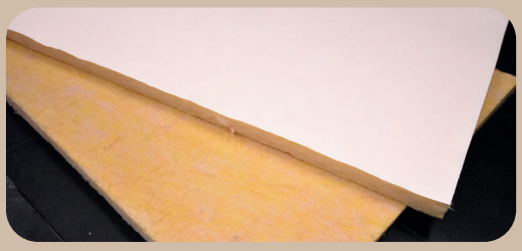
Deckheads and Bulkheads

Hull Insulation

Hangar deck

Beam and duct wrap

HVAC Systems



Sound Absorption (Coefficients by the Reverberation Room Method)

Density	Thickness	Frequency (Hz)	125	250	500	1000	2000	4000	SAA	NRC
9.6 kg/m3	25mm	Absorption Coefficient	0.10	0.17	0.61	0.93	0.99	0.98	0.68	0.70

Sound Attenuation (Sound Transmission Loss dB) (ASTM E-90)

Density	Thickness	Frequency (Hz)				
kg/m3	mm	250	500	1000	2000	4000
9.6	25	5.4	7.2	14.1	20.1	27.2

Thermal Conductivity (watts/meter °c) (ASTM C-518)

Density	Mean Temp. °C (between hot surface and cold surface)					
(kg/m3)	10°	24°	38°	93°	149°	204°
9.6	0.035	0.036	0.039	0.051	0.061	0.079

Note: Test results on unfaced product

Contact us

Trelleborg's Applied Technologies division is an industry expert in delivering innovative and reliable solutions that maximize performance for our customers. Our vast range of specialized, customizable materials ensure peace of mind at every stage of your project. With reliable and efficient project management and manufacturing we endeavor to take performance to new levels by achieving your goals safely, on time and within scope.

TRELLEBORG

WWW.TRELLEBORG.COM/APPLIED-TECHNOLOGIES
United Kingdom: +44 (0)1777 712500
Email: appliedtech@trelleborg.com