

SORBERGLASS™ HD

high density glasswool board

Sorberglass® HD is manufactured from high density glasswool bonded with a thermosetting resin that delivers excellent thermal and acoustic properties. A product with superior compression strength and stiffness, it can also be used in self-supporting applications.

It has excellent resistance to fire and can be used in high temperature applications up to 350°C.

Sorberglass® HD has been commonly used beneath floating floors in building and marine applications, self-supporting rigid ducting for HVAC, thermal and acoustic applications in marine environments.

When Sorberglass® HD is faced with decorative fabrics, it becomes a high quality panel absorber, often used in offices, public spaces and marine applications.



SPECIFICATIONS

Colour	yellow beige
Specifications	25 x 1200 x 3000 mm or custom depending on MOQ

applications

- Great performance in high temperature and high humidity environments (150 - 350°C)
- Boat engine compartments
- Absorber panels in building and public spaces
- Floating floor underlay for marine and building
- Building and marine partition in-fill
- Wall and ceiling linings for plant equipment rooms
- Self supporting HVAC ducting
- Compressor and generator set enclosure lining
- Mining industry sound absorbers in tunnels and around break rooms

features

- High density
- High compression resistance
- Excellent thermal resistance
- High sound absorption properties
- Tested to AS 1530.3
- Hydrolysis resistant
- Self supporting
- Low installation cost - easily cut, shaped, fabricated and installed
- Durable with long service life
- Non corrosive

PRODUCT SPECIFICATIONS

Product name	Thickness (mm)	Density (kg/m ³)	Thermal conductivity (W/mK)	Sheets (mm)	Operating temperature range °C
SORBERGLASS HD	25 ±2mm	130	0.031 at 20°C mean	1200 x 3000	350°C max

Tolerances: Length: -0 to +50mm; Width: -0 to +5mm; Thickness: +/- 2mm; Density: +/- 5%.

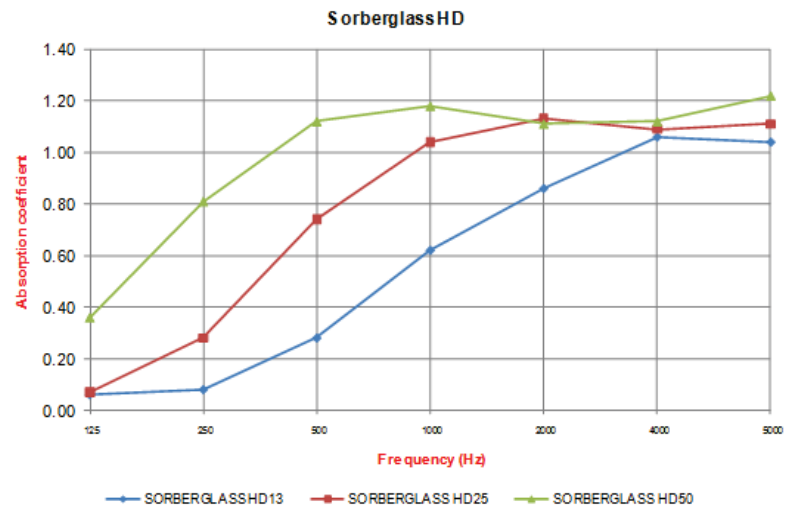
MATERIAL PROPERTIES

Test method	Index	Description	Results
AS/NZS 1530.3 – 1999	Ignitability	Method for fire tests on building materials, components and structures	0
	Spread of Flame		0
	Heat evolved		0
	Smoke developed		0-1
BS3958 Part 5 –1986	-	Corrosion resistance	pH of 7.5-8.0 Faintly alkaline will not corrode steel
-	On exposure to an atmosphere of 50°C and 95% relative humidity for four days	Moisture resistance	Moisture absorption of less than 0.2% by volume

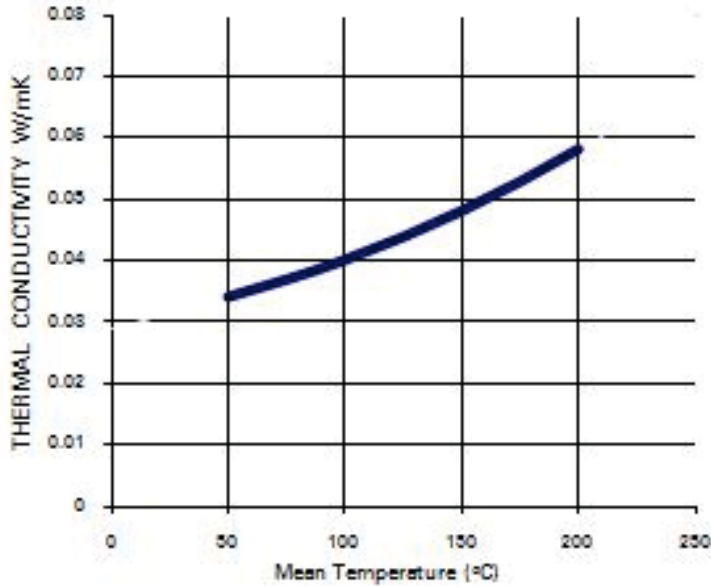
ACOUSTIC PERFORMANCE

Frequency (Hz)	Sorberglass HD		
	13mm	25mm	50mm
125	0.06	0.07	0.36
250	0.08	0.28	0.81
500	0.28	0.74	1.12
1000	0.62	1.04	1.18
2000	0.86	1.13	1.11
4000	1.06	1.09	1.12
5000	1.04	1.11	1.22
NRC	0.46	0.80	1.06

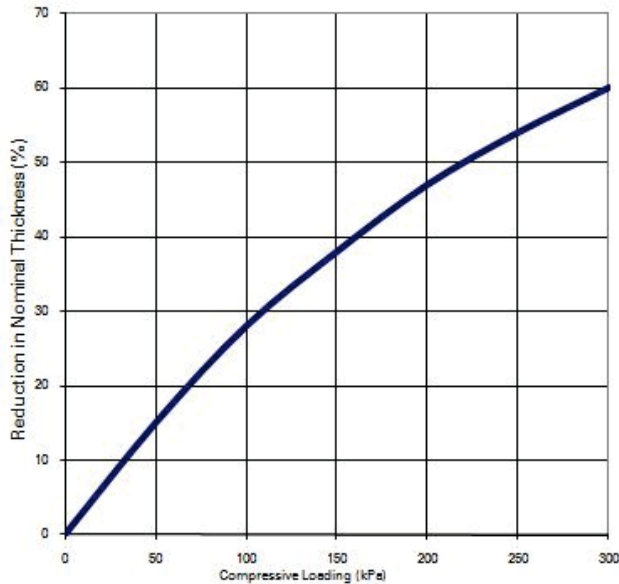
(Manufacturer's data)



THERMAL CONDUCTIVITY



COMPRESSION RESISTANCE



Sorberglass HD is a resilient insulation material that readily recovers to its nominal thickness after the removal of a normal compressive load.

Results in the table are recorded after testing in accordance with ASTM C165-1983. Measuring Compressive Properties of Thermal Insulation.

For further information and contact details, please visit our website pyroteknc.com

Caveats: Specifications are subject to change without notice. The data in this document is typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. The conclusions drawn from acoustic test results are as interpreted by qualified independent testing authorities. Nothing here releases the purchaser/user from responsibility to determine the suitability of the product for their project needs. Always seek the opinion of your acoustic, mechanical and fire engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek is not responsible for differing outcomes from using their products. Pyrotek disclaims any liability for damages or consequential loss as a result of reliance solely on the information presented. No warranty is made that the use of this information or of the products, processes or equipment to which this Information Page refers will not infringe any third party's patents or rights. DISCLAIMER: This document is covered by Pyrotek standard Disclaimer, Warranty and © Copyright clauses. See pyroteknc.com/disclaimer.

