Microboard®
Shipbuilding Industry

MICROSHIELD

Product Specification Sheet

MICROSHIELD®'s Microboard® is an FTP Code 2010 - Part 1 certified construction board for the building of interior fittings and other applications in shipbuilding. The Microboard® is lightweight and offers high mechanical strength including edge stability. The Microboard® can be processed with common commercially available machines and offers further advantages in versatile application possibilities.

Non-flammability and excellent acoustic insulation, as well as indoor and outdoor applicability, are just some of the features that meet our customer's versatile needs.

Microboard®s are easy to work with. Cutting, sawing, nailing, stapling, painting, direct veneering, etc. are just some of the advantages over standard products.

Microboard®s have a smooth upside surface structure without any blowholes and allow direct decorative coating without any pretreatment. The ground and calibrated side for example, is ideal for laying tiles

Microboard®s do not contain organic materials, formaldehyde, asbestos or other toxic substances. They are environmentally neutral and without any influences for humans and the environment.

Construction boards from MICROSHIELD® require about 30% less energy in production than conventional, cement-bonded construction boards. This makes Microboard®s more ecological than other products and contributes to the global reduction of carbon dioxide.

The 3mm Microboard® already offers a fire resistance of more than 1 hour. No other construction board known offers similar results in terms of both, performance and price!

MICROSHIELD®'s Microboard® is a construction platform used successfully in the building industry, in particular, to meet high fire safety requirements and above all to optimize costs / benefits

The Microboard®s are available from 3mm to 50mm in the standard panel size of 1220x2440mm, all FTP Code 2010 - Part 1 certified.

Talk to us, we are happy to help

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Product Features:

Non-combustible MICROSHIELD®'s Microboard®s are classified as non-combustible-material according to FTP Code - 2010 Part 1 certification.

Water resistant Microboard®s are resistant to moisture and do not delaminate or deteriorate.

Weather resistant Microboard®s withstand high and low temperatures, are not sensible to light and may be used in humid and dry weather conditions.

Sound insulating Microboard®s provide excellent sound insulation.

Heat insulating Microboard®s achieve excellent heat insulation for personal and infrastructure safety.

Impact resistant Microboard®s withstand heavy compression and are therefore the preferred choice for construction boards in the shipbuilding industry

Termite-proof and fungi-resistant
Microboard®s prevent from termite infestation and bacterial fungal growth.

Lightweight and durable
Althought MICROSHIELD®'s Microboard®s are lightweight, they are tough, sturdy and durable.

Non-deforming Microboard®s are dimensionally stable and do not deform.

Strong and nail-holding
Microboard®s are of high mechanical strength and hold nails and screws firmly.
No pre-drilling is necessary.

Fabricating and laminating
Microboard®s can be easily assimilated / fabricated with honeycomb, veneers, laminates or vinyl coverings etc.

Free of harmful substances
Microboard®s are odorless and do not contain asbestos, crystalline silicon oxides, phenol and formaldehyde.
Microboard®s are breathable and support a healthy indoor climate.

Technical Specifications

Testing Item	Data	Basis
Apparent density	Appr. 0.95 g/cm^3	
Percentage of water swelling	≤0.6%	
Screw withdrawal force	≥70N/mm	
Flammability class	Non-combustible substrate	FTP Code 2010 - Part 1
Fire resistance class	＞2h (F120)	65 mm steel framed partition with 6 mm Microboard®,, inside isolated with rockwool
Fire resistance class	＞3h (F180)	70 mm steel framed partition with 9 mm Microboard®, inside isolated with rockwool
Fire resistance class	＞4h (F240)	75 mm steel framed partition with 12 mm Microboard®, inside isolated with rockwool
Sound insulation	＞42dB	9 mm Microboard®, +50 mm rockwool isolation
Bending strength	＞16MPa	10 mm Microboard®
Impacting strength	＞5.5kJ/m^2	10 mm Microboard®
Environment	no asbest, no formaldehyde	
Thermal conductivity	0.109W/(m*K)	
Color	Pink white	
Surface Texture	Front surface: Smooth Back surface: Rough / calibrated	

Microboard® sizes

Thickness	Length × Width
3 mm to 50 mm	2440 × 1220 mm

Climatic change cycles

KLW rating	No cracks or delamination after 25 cycles in the test

Our Commitment to the Environment:

ENVIRONMENTAL MANAGEMENT SYSTEM ISO 14001

Green in materials:	MICROSHIELD®'s Microboard®s are odorless and do not contain asbestos, crystalline silica, or any toxic glues, such as urea/phenol formaldehyde.
Green in production:	MICROSHIELD®'s Microboard®s require 30% less energy to manufacture then comparable products.
Green in installations:	Microboard®s can be conventionally processed and coated.