

# **Marine Solutions**

Fire Rated Bulkhead and Partition Walls





## A LEADER IN PASSIVE FIRE PROTECTION

Promat is a leading manufacturer of passive fire protection panels and systems for marine applications, offering an extensive range of products designed to meet the most stringent requirements of 21st century fire protection legislation.

The production of non-combustible calcium silicate boards and lightweight high performance insulation materials is one of Promat's best strengths. Promat's products for marine applications stand for: **high performance, significant space & weight savings**, fast installation and tailor-made system meeting the requirements of shipyards & clients. Our product portfolio includes PROMARINE®, PROMASOUND®, PROMAGUARD® and PROMASIL® MARINE ranges. All Promat marine products are designed to meet and exceed the most stringent marine legislation.



**Yacht / Mega Yacht**



**Cruise**



**Naval**



**OSV**

Promat's products can be used in cruise ships, ferry boats, mega yachts, living quarters and for all types of work boats.

### PROMARINE®-640

*Non-combustible decorative panel*  
Nominal density: 640kg/m<sup>3</sup>



PROMARINE®-640 is a non-combustible autoclaved calcium silicate board, reinforced with selected minerals and fibres. It is formulated without inorganic fibres and does not contain formaldehyde. The board is off-white in colour and has a smooth sanded surface. The board can easily be finished with high pressure laminates. It is resistant to the effects of moisture and will not physically deteriorate when used in damp or humid conditions.

### PROMARINE®-450

*Lightweight Non-combustible decorative panel* - Nominal density: 450kg/m<sup>3</sup>



PROMARINE®-450 is a non-combustible autoclaved calcium silicate board reinforced with selected minerals and fibres. It is formulated without inorganic fibres and does not contain formaldehyde. The board is off-white in colour and has a smooth sanded surface on both faces. The board can easily be finished with high pressure laminates. It is resistant to the effects of moisture and will not physically deteriorate when used in damp or humid conditions.

### PROMASIL®-MARINE

*Very lightweight Non-combustible board*  
Nominal density: 285kg/m<sup>3</sup>



PROMASIL® MARINE is one of the best insulating solutions. PROMASIL® MARINE boards are compact, self-bearing and lightweight; it is resistant to continuous temperatures of 1000°C. It also represents an alternative to mineral fibres due to its excellent dimensional stability, mechanical properties, durability and absence of organic binders. PROMASIL® MARINE is certified non-combustible in accordance with MED and U.S. Coast Guard Directives.

### PROMINA®-M

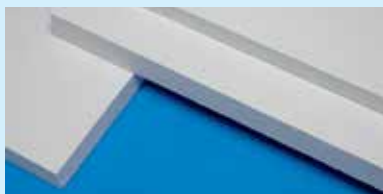
*High Humidity Resistant Non-Combustible Board* - Density: 1000kg/m<sup>3</sup>



PROMINA® M is a versatile mineral board, gypsum and silica-free. One side is a smooth finish and can be bonded with most surface finishes as used in the marine market. PROMINA® M retains its mechanical properties unaltered even in presence of high humidity. PROMINA® M offers high mass with low thicknesses providing significant noise reduction in the systems it is used in. Applications include walls, suspended ceilings and floating floors.

### PROMARINE®-PX1

*Non-Combustible Mineral Bound Calcium Silicate Board* - Density: < 885kg/m<sup>3</sup>



PROMARINE®-PX1 is a new generation of non-combustible mineral bound board, using the innovative PROMAXON® technology.

Providing superior strength, insulation and stability, PROMARINE®-PX1 is available in 12, 15 and 19mm thicknesses. When bonded with high-pressure laminates, PROMARINE®-PX1 can be installed as linings, partitions and ceilings on seagoing vessels and offshore platforms.

### PROMATECT®-H

*Non-Combustible Matrix Engineered Mineral Board* - Density: 870kg/m<sup>3</sup>



PROMATECT®-H is a non-combustible matrix engineered mineral board reinforced with selected fibres and fillers. It is formulated without organic fibres and does not contain formaldehyde.

The board can be left plain or can be easily finished with paints. PROMATECT®-H is resistant to the effects of moisture and will not physically deteriorate when used in damp or humid conditions. Performance characteristics are not degraded by age.



### LIGHTWEIGHT CUSTOMISED SOLUTIONS

Promat provides low weight fire protective solutions for interiors that can **save up to 30% of weight** compared to traditional solutions. All Promat's systems are A and/or B class MED certified. Where fire and acoustical performance is required, Promat can provide **integrated solutions that can cover both acoustic and thermal applications**.

Promat have the knowledge and the numerical simulation tools to engineer such **integrated applications**, which can help the designer at the very early design stage in order to optimise space and comfort. Improvement of the Energy Efficiency Design Index (EEDI) can also be achieved by the adoption of Promat integrated solutions.

### ADVANTAGES



#### FIRE RESISTANCE

Promat's solutions are all **A and B modules MED certified**. Each product is **certified non-combustible in accordance with MED**. Products are also tested under other local and international standards such as U.S. Coast Guard Directive or ISO standards.



#### ACOUSTIC INSULATION

Promat can provide a customised solution where both fire and acoustic applications are required. Promat boards can be combined with an additional acoustic barrier.



#### LIGHTWEIGHT

Promat's boards are lightweight. Thanks to this characteristic, **Promat boards can be integrated in many specifications where the weight is a key issue**.



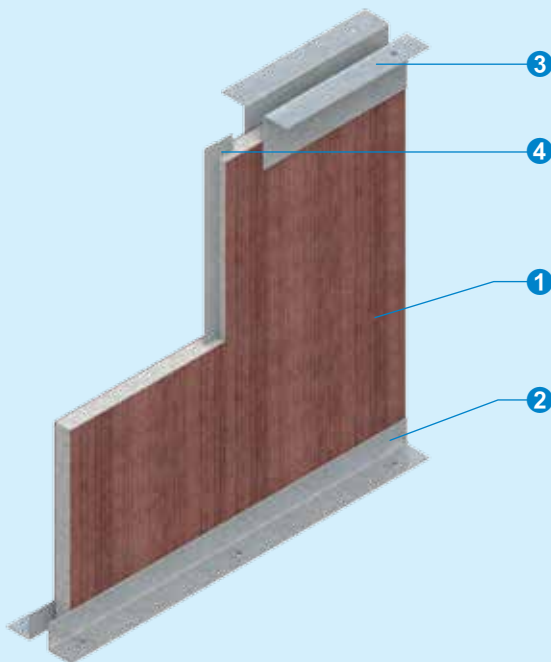
#### AESTHETIC

Promat boards **can be painted or laminated** if necessary. Different shades, colors and textures are available upon request.

### EXAMPLES OF SOLUTION

#### EXAMPLE 1

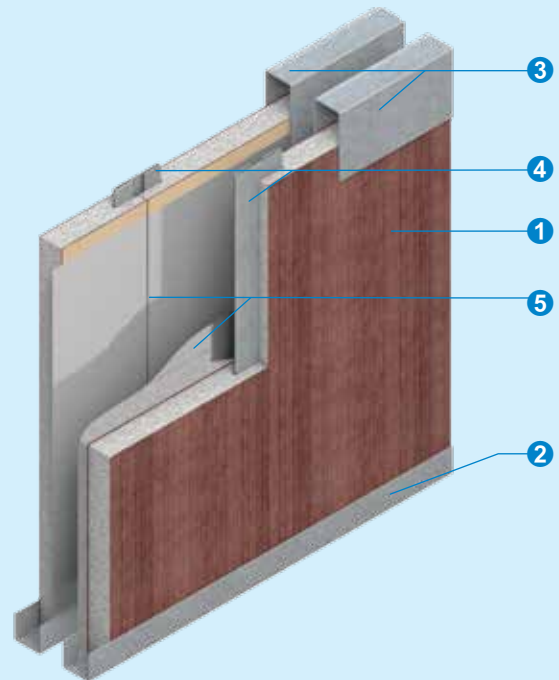
Bulkhead A0 Class Certified with PROMARINE®-640 Panel



- ① 12.7mm PROMARINE®-640 2420 x 1210mm
- ② Bottom angle 20 x 20 x 1.2mm
- ③ Top angle 50 x 20 x 1.2mm
- ④ Solid spline 20 x 1mm

#### EXAMPLE 2

Bulkhead A60 Class Certified with PROMARINE®-450 Panel



- ① 19mm PROMARINE®-450 2420 x 1210mm
- ② Bottom channel PC-15-E 20 x 22 x 20mm - 1.2mm thick
- ③ Top channel PC-17-G 50 x 22 x 50mm - 1.5mm thick
- ④ "C" spline PJ-1-A 38mm - 3.6mm overall thickness
- ⑤ Aluminium foil 0.025 mm + PROMASEAL® Glue fixed with 50 x 50mm dabs at 300mm centres



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