

Product properties

PROMINA®-HDi is a non combustible fibre cement multipurpose board manufactured from a precise combination of cement, silica and cellulose. The boards are cured and stabilised in an autoclave, a special process involving steam, high temperature and pressure, ensuring a board that has optimum dimensional stability and mechanical properties.

PROMINA®-HDi fibre cement boards are long lasting and highly resistant to most environmental conditions. Whilst its performance and characteristics are not degraded by moisture, PROMINA®-HDi is not designed for applications, without any appropriate coating, in areas subject to continual damp or high temperatures (please consult Promat).

PROMINA®-HDi does not rot, will not support mould growth and does not attract pests such as termites. Therefore, the product is the best alternative to wood, concrete and masonry constructions.



Material properties & physical performance

Property	Test standard	Test result
Dimensional conformity		
• Thickness		
• Length	ISO 8336: 2009	Level II (Pass)
• Width		
• Straightness of edges		
• Squareness of edges		
Density	ISO 8336: 2009	≥ 1300kg/m ³
Moisture content	ASTM C1185	≤ 15%
Water absorption	ASTM C1186	≤ 30%
Moisture movement	ISO 8336: 2009	≤ 0.04%
Water permeability	ISO 8336: 2009	Pass
Thermal conductivity	ISO 8336: 2009	0.25W/m ² K
Modulus of rupture	ISO 8336: 2009	
Saturated condition (Category A)		≥ 7Mpa
Ambient condition (Category C)		≥ 10Mpa
Warm water performance	ISO 8336: 2009	Pass
Soak-dry performance	ISO 8336: 2009	Pass
Freeze-thaw performance (Category A)	ISO 8336: 2009	Pass
Combustibility	BS 476: Part 4: 1970	Non combustible
Surface spread of flame	BS 476: Part 7: 1997	Class 1

Standard board

Thickness	Dimension	Weight of board per m ²
6mm	2440mm x 1220mm	Approx. 7.8kg
8mm	2440mm x 1220mm	Approx. 11.7kg
10mm	2440mm x 1220mm	Approx. 13.0kg
12mm	2440mm x 1220mm	Approx. 15.6kg
15mm	2440mm x 1220mm	Approx. 19.5kg

Benefits

- Resistant to the attack of termites, insects and most other vermin
- Moist, mould and water resistant
- Wide variety of thicknesses and applications
- Impact resistant
- Dimensionally stable
- Easy to install and work with

Health and safety

When machining the PROMINA®-HDi product, airborne dust may be released, which may be hazardous to health. Do not inhale the dust. Avoid contact with skin and eyes. Use dust extraction equipment. Respect regulatory occupational exposure limits for total inhalable and respirable dust. A health and safety data sheet is available from Promat and, as with any other material, should be read before working with the product.

PROMINA®-HDi product is not classified as a dangerous substance so no special provisions are required regarding the transportation and the disposal of the product to landfill. The product can be placed in on-site rubbish skips with other general building waste which should then be disposed by a registered contractor in the appropriate and approved manner.

All material properties and physical performance are mean values given for information and guidance only. If certain properties are critical for a particular application, it is advisable to consult Promat. PROMINA®-HDi is manufactured under a quality management system certified in accordance with ISO 9001: 2008. The product has passed the site audit in accordance with the environmental standards of ISO 14001: 2004 and occupational health and safety requirements of OHSAS 18001: 2007.