

Medite Industrial MR

Medite Industrial MR is a specially engineered moisture resistant MDF panel with an extra smooth surface finish, designed for use in humid conditions in accordance with MDF.H (Option 1) as defined in EN 622-5. Ideal for applications where high speed profiling and machining for industrial use may be required. Developed at Medite's world class MDF facility in Clonmel, Medite Industrial MR broadens the range of the Medite family of high performance MDF products.

Applications: Designed to maximise the sophisticated finishing processes and fine machining required for end user applications. Medite Industrial MR is successfully used for architectural mouldings, skirting boards, architraves, window boards, high quality furniture, flooring, bathroom and kitchen panels. Medite Industrial MR is suitable for interior humid conditions and is manufactured in accordance with EN 622-5.

Medite Industrial MR is not suitable for external applications. Medite Industrial MR must be sealed, primed and painted on all surfaces prior to installation. Boards of this type are suitable for use in Hazard Class 1 and 2 environments of EN 335-3 provided an appropriate coating system is used.



Performance: The test methods used for moisture resistant Medite Industrial MR includes a specialized cyclic test (EN 321) in which test pieces, after conditioning, are immersed in water at 20°C for 72 hours, frozen in air at -12°C for 24 hours, and heated in an air-circulated oven at 70°C for 72 hours. This cycle is carried out three times, followed by post conditioning and physical testing according to EN622-5 test methods. Medite Industrial MR is accepted in the UK by the NHBC for use in suitable applications.

Appearance: Medite Industrial MR retains the light tan colour of the wood fibre from which it is manufactured.

Conditioning: The moisture content of Medite Industrial MR is in the range of 7% +/- 2% at the time of manufacture. Changes in dimensions of wood and wood-based sheet materials occur due to changes in relative humidity. For this reason, Medite Industrial MR panels should be conditioned to the final environment for two to three days before cutting and fixing.

Machining/finishing: Cut or profiled edges of Medite Industrial MR should first be sanded with 150-240 grit, prior to painting. The recommended coating system for the edges is to seal, prime and topcoat with de-nibbing in between coats to produce a smooth finish. The desired finish on the face can be achieved by application of a base-coat and top-coat. If water-based coatings are used, it is important that forced drying or quick-drying systems be applied in order to maintain the quality of surface.

Fire rating: Medite Industrial MR is expected to achieve a fire class rating of Euro Class D within the European classifications.

Authority: Medite Industrial MR is manufactured under an NSAI registered I.S ISO 9001:2008 quality management system.

Supply: Medite Industrial MR is produced on request and availability will depend on volume.

Service: For further information and/or technical advice regarding processing and painting/finishing Medite Industrial MR please contact Medite Technical Support Personnel through any of our European

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All Medite MDF products supplied for use in the construction and civil engineering industries are CE marked according to the requirements of the harmonized European standard for wood based panels EN 13986. This provides the necessary assurance to customers and users that Medite conforms with the European MDF standard, EN 622-5 and meets all the essential requirements for the Construction Products Directive that are relevant to the product. In accordance with the provisions of Third Party Certification required within the Final Regulations Order of the Airborne Toxic Control Measure (ATCM) by the California Air Resources Board (CARB) all Medite MDF products are CARB Phase 2 Compliant. The approved Third Party Certifier (TPC) Entwicklungsund Prüflabor Holztechnologie GmbH (EPH – TPC No W-08-010) is contracted by Medite to perform the quarterly assessment of the factory production control and to have the stipulated formaldehyde tests carried out by the accredited EPH test laboratory.



Medite Industrial MR MDF Technical Specification Sheet

Thickness (mm)

PROPERTY	RANGE	TEST METHOD	UNITS	10-12	14.5-19	22-25
Internal Bond	Min	EN 319	N/mm ²	0.800	0.750	0.750
Modulus of Rupture	Min	EN 310	N/mm ²	26.0	24.0	22.0
Modulus of Elasticity	Min	EN 310	N/mm ²	2,500	2,400	2,300
Screw Holding Face	Min	EN 320	N	-	1000	1000
Screw Holding Edge	Min	EN 320	N	-	950	900
Moisture Content	Min-Max	EN 322	%	4.5-7.5	4.5-7.5	4.5-7.5
Thickness Tolerance		EN 324-1	mm	+/-0.15	+/-0.15	+/-0.15
Thickness Swell (24hrs)	Max	EN 317	%	10.0	8.0	7.0

Dimensional Movement

Length/Width		EN 318	%	0.25	0.25	0.25
Thickness		EN 318	%	6.0	6.0	4.0

Changes after wet cycle test

EN 321

Thickness Swell	Max	EN 317	%	16.0	15.0	15.0
Internal Bond	Min	EN 319	N/mm ²	0.25	0.20	0.15

The results as listed above are based on the minimum specification requirements for all Medite Industrial MR MDF manufactured by Medite Europe. All board parameters are in compliance with EN 622 parts 1 & 5 for type MDF.H (Option 1). As part of the Medite Europe ongoing product development programme, the right to modify these product specifications without notice is reserved. Medite Industrial MR conforms to E1 formaldehyde levels as well as also complying with the lower levels required by CARB phase 2.

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