



MEDITE MR (EN 622-H1)

Medite MR is a moisture resistant MDF panel designed for use in humid conditions in accordance with MDF.H1 as defined in EN 622 part 5 so is ideal for applications such as kitchen and bathroom furniture, window and skirting boards and architectural mouldings. Developed for the 21st Century at Medite's Clonmel MDF facility, Medite MR broadens the range of the Medite family of high performance MDF products.

APPLICATIONS Medite MR (MDF.H1) is used as a substitute for softwoods and hardwoods, and as a panel product in non-stressed applications. It is successfully used for kitchen furniture, bathroom furniture, architectural mouldings, skirting boards, architraves, window boards, flooring and general interior joinery. Medite MR is suitable for interior humid conditions and is manufactured in accordance with EN 622, part 5.

Medite MR is not suitable for external applications. Medite MR must be sealed, primed and painted on all surfaces prior to installation, especially when placed next to damp plaster. 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 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 EN 622 test methods. Medite MR is accepted in the UK by the NHBC for use in suitable applications.

APPEARANCE Medite MR is distinguishable from other Medite MDF products by its green identification colour.

CONDITIONING The moisture content of Medite 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 MR panels should be conditioned to the final environment for two to three days before fixing.

MACHINING/FINISHING Cut or profiled edges of Medite 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 MR is expected to achieve a fire class rating of Euro Class D within the new European classifications.

AUTHORITY Medite MR is manufactured under an NSAI registered I.S. EN ISO 9001:2000 quality management system.

SUPPLY Medite MR is produced in the following standard panel sizes: 1220 x 2440mm 1220 x 2745mm, 1220 x 3050mm, 1525 x 2440mm, 1525 x 2745mm, 1525 x 3050mm, and 1830 x 2440mm. Standard thicknesses produced are 6, 9, 12, 14.5, 15, 16, 18, 22, 25 and 30mm. Cut to size specifications and other thicknesses are available on request.



SERVICE

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



MEDITE MR (EN 622 TYPE MDF - H1) TECHNICAL SPECIFICATION DATA SHEET

PROPERTY	RANGE	TEST METHOD	UNITS	THICKNESS (mm)						
				3.0 to 4.0	>4.0 to 6.0	>6.0 to 9.0	>9.0 to 12.0	>12.0 to 19.0	>19.0 to 30.0	
Internal Bond	Min	EN 319	N/mm ²	0.90	0.90	0.90	0.90	0.90	0.80	
Modulus of Rupture	Min	EN 310	N/mm ²	40.0	40.0	35.0	35.0	30.0	25.0	
Modulus of Elasticity	Min	EN 310	N/mm ²	4000	4000	3500	3500	3000	2500	
Screw Holding Face	Min	EN 320	N	~	~	~	~	1000	1000	
Screw Holding Edge	Min	EN 320	N	~	~	~	~	950	900	
Moisture Content	Min-Max	EN 322	%	5-9	5-9	5-9	5-9	5-9	5-9	
Free Formaldehyde Content	Max	EN 120	mg/100g	≤8.0	≤8.0	≤8.0	≤8.0	≤8.0	≤8.0	
Thickness Tolerance	Min-Max	EN 324-1	mm	+/- 0.15	+/- 0.15	+/- 0.15	+/- 0.15	+/- 0.15	+/- 0.15	
Thickness Swelling (24hrs)	Max	EN 317	%	25.0	12.0	10.0	9.0	6.0	5.0	
DIMENSIONAL MOVEMENT										
Length/Width	Max	EN 318	%	0.4	0.4	0.3	0.3	0.25	0.25	
Thickness	Max	EN 318	%	6.0	6.0	4.0	4.0	4.0	3.0	
CHANGES AFTER WET CYCLIC TEST										
Thickness Swelling	Max.	EN 317	%	40.0	25.0	19.0	15.0	15.0	10.0	
Internal Bond	Min.	EN 319	N/mm ²	0.35	0.35	0.30	0.25	0.20	0.15	

The results as listed above are based on the minimum specification requirements for all Medite MR MDF manufactured by Medite Europe. All board parameters are in compliance with EN 622 parts 1 & 5 for type MDF.H1. As part of the Medite Europe ongoing product development programme, the right to modify these product specifications without notice is reserved. A free formaldehyde content of ≤8.0 mg/100g fulfils the requirements for Type Class E1 in EN 622-1 2003.