



MR (Moisture Resistant) Panels Product Specification Sheet

General Description

Aquacloak MR panels are manufactured with a base of MEDITE MR MDF, this is then coated with LG 3D Decofoil PVC Vinyl which is heated and vacuum pressed onto the MR MDF. The bond between MDF and Vinyl is achieved using an even coat of Spraysafe heat activated self cross linking, high viscosity 3D adhesive across all surfaces.

Detailing of Aquacloak panels is achieved either by CNC routing the panel before finishing or Hardwood mouldings being applied before vacuum pressing.



MEDITE MR is a moisture resistant MDF panel designed for use in humid conditions in accordance with MDF.H (Option 1) as defined in EN 622-5 so is ideal for applications such as kitchen and bathroom furniture, window and skirting boards and architectural mouldings. Developed at MEDITE's world class MDF facility in Clonmel, MEDITE MR broadens the range of the MEDITE family of high performance MDF products.

Photo: Richard Baker Furniture

APPLICATIONS

MEDITE MR 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 622-5. 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 5-9% 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 cutting and 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 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 surface quality.

FIRE RATING

MEDITE MR is expected to achieve a fire class rating of Euroclass D within the European classifications.

All MEDITE MDF products supplied for use in the construction and civil engineering industries are CE marked according to the requirements of the harmonised 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 MR MDF 622 TYPE MDF.H (OPTION 1) TECHNICAL SPECIFICATION SHEET

PROPERTY	RANGE	TEST METHOD	UNITS	3.0 to 4.0mm	>4.0 to 6.0mm	>6.0 to 9.0mm	>9.0 to 12.0mm	>12.0 to 19.0mm	>19.0 to 30.0mm
Internal Bond	Min	EN 319	N/mm ²	0.90	0.90	0.90	0.90	0.8	0.75
Modulus of Rupture	Min	EN 310	N/mm ²	45.0	45.0	45.0	45.0	35.0	35.0
Modulus of Elasticity	Min	EN 310	N/mm ²	4,500	4,500	4,500	4,500	3,500	3,500
Screw Holding Face	Min	EN 320	N	-	-	-	-	1200	1200
Screw Holding Edge	Min	EN 320	N	-	-	-	-	900	900
Moisture Content	Min-Max	EN 322	%	5-9	5-9	5-9	5-9	5-9	5-9
Thickness Tolerance		EN 324-1	mm	+/-0.15	+/-0.15	+/-0.15	+/-0.15	+/-0.15	+/-0.15
Thickness Swelling (24hrs)	Max	EN 317	%	25.0	20.0	10.0	10.0	7.0	5.0
DIMENSIONAL MOVEMENT									
Length/Width		EN 318	%	0.40	0.40	0.30	0.30	0.30	0.30
Thickness		EN 318	%	6.0	6.0	4.0	4.0	4.0	3.0
CHANGES AFTER WET CYCLE TEST – EN 321									
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 DAC. All board parameters are in compliance with EN 622 parts 1 & 5 for type MDF.H (Option 1). As part of the MEDITE EUROPE DAC ongoing product development programme, the right to modify these product specifications without notice is reserved. MEDITE MR conforms to E1 formaldehyde levels as well as also complying with the lower levels required by CARB phase 2.

AUTHORITY

MEDITE MR is manufactured under an NSAI registered I.S.
EN ISO 9001 quality management system.

SUPPLY

MEDITE MR is produced in the following standard panel sizes: 1220 x 2440mm, 1220 x 3050mm, 1525 x 3050mm and 1830 x 2440mm. Standard thicknesses produced are 6, 9, 12, 15, 18, 22, 25 and 30mm. Other sizes and thicknesses available on request subject to minimum order quantities.

SERVICE

For further information and/or technical advice regarding processing and painting/finishing MEDITE MR please contact MEDITE Technical Support Personnel:

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