



**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 EN 622-5 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 4.5 – 7.5% 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

# MEDITE<sup>®</sup>

## INDUSTRIAL MR

### FIRE RATING

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

### AUTHORITY

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

### SUPPLY

MEDITE INDUSTRIAL MR is produced on request to minimum volume requirements.

### SERVICE

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

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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 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 INDUSTRIAL MR MDF TECHNICAL SPECIFICATION SHEET

| PROPERTY                   | RANGE   | TEST METHOD | UNITS             | 10 to 12mm | 14.5 to 19mm | 22 to 25mm |
|----------------------------|---------|-------------|-------------------|------------|--------------|------------|
| Internal Bond              | Min     | EN 319      | N/mm <sup>2</sup> | 0.80       | 0.75         | 0.75       |
| Modulus of Rupture         | Min     | EN 310      | N/mm <sup>2</sup> | 26.0       | 24.0         | 22.0       |
| Modulus of Elasticity      | Min     | EN 310      | N/mm <sup>2</sup> | 2,500      | 2,400        | 2,400      |
| 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 Swelling (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 Swelling | Max | EN 317 | %                 | 16.0 | 15.0 | 15.0 |
| Internal Bond      | Min | EN 319 | N/mm <sup>2</sup> | 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 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 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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