MEDITE® SMARTPLY®
INNOVATIVE TIMBER PRODUCTS



MEDITE® MR LITE

MEDITE MR LITE is a multi-purpose lightweight moisture resistant MDF panel designed for use in internal humid conditions. Its moisture resistant and lightweight properties make it an ideal choice for low-demand applications within humid conditions.

Developed at MEDITE's world-class MDF facility in Clonmel, MEDITE MR LITE expands the MEDITE family of high-performance MDF products.

AT A GLANCE > MEDITE MR LITE:

- PERFECT FOR PAINTING/COATING
- MOISTURE RESISTANT PANEL
- LIGHTWEIGHT PANEL
- SUITABLE FOR SKIRTING
- EU REACH COMPLIANT
- FSC® CERTIFIED

www.mdfosb.com

MEDITE®
DEFINING THE STANDARD OF MDF

DATASHEET

MEDITE® MR LITE

FEATURES & BENEFITS

- Lightweight for easier handling
- Moisture resistant panel for use in interior humid conditions
- Smooth surface
- Consistent quality and thickness
- EU REACH and CARB 2 compliant
- Manufactured using FSC® certified timber

SUITABILITY

MEDITE MR LITE is ideal for applications such as kitchen and bathroom furniture or skirting boards, or where light routing is required. It is best suited for humid conditions, and its lightweight properties make it easy to handle and reduce tool wear, saving end-users time and money on installation. It is a cost-effective solution for non-stressed applications and a great alternative to softwoods and plastics used in similar conditions.

MEDITE MR LITE is a lower density product when compared to the rest of the MEDITE MR range but is suitable for environments where moisture resistant products are required. MEDITE MR (or similar) should instead be used in applications where a high-quality machined finish is needed.

SPECIFICATION AND PERFORMANCE

MEDITE MR LITE is manufactured in accordance with the requirements of EN 13986 and EN 622-1 and complies with the requirements of the grade L-MDF.H (Option 1) of EN 622-5. It is suitable for applications in internal, humid environments as defined by Use Class 2 of EN 335.

MEDITE MR LITE is distinguishable from other MEDITE MDF products by its green identification colour.

In accordance with EN13986, the reaction to fire performance of MEDITE MR LITE with a minimum thickness of 9mm is D-s2, d0.

SIZES

MEDITE MR LITE is produced in the following standard panel sizes.

Other sizes and thicknesses are available on request, subject to minimum order quantities.

Dimensions	Thickness
1220 x 2440mm	12, 18mm
1220 x 3050mm	12, 18mm

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MOISTURE CONTENT AND CONDITIONING

The moisture content of MEDITE MR LITE is typically in the range of 5-9% at the time of manufacture, and the panels are produced to close dimensional tolerances. As with all wood-based materials, changes in panel moisture content from the surrounding environment will result in changes to the dimensions of the panel (length, width and thickness). It is therefore important to condition the panels so that the moisture content of the panel is as close as possible to its final in-service moisture content at the time of installation, as this will mostly avoid any in-service distortion problems.

MEDITE MR LITE panels should be conditioned to the final environment for two to three days before cutting, finishing and fixing. Panels can be conditioned by stacking with spacers to improve air circulation. The moisture resistance of wood-based panels varies with product type, according to the specification, and the use of a product in the wrong Service Class or Use Class could lead to poor performance or premature failure.

Failure to allow panels to sufficiently condition can result in performance issues, such as warping or bowing.

TRANSPORT, STORAGE AND HANDLING

Correct storage and handling are important for all wood-based panels, as it ensures the quality of the panels we supply is maintained, and that they will perform to the expected standard.

Panels should be stacked flat on a level surface with all four edges flush, sufficiently clear of the ground to avoid any potential splashing from water. Moisture resistant panels can tolerate high humidity conditions but direct contact with water should be avoided to prevent aesthetic surface damage.

When stacked on battens, they should be of equal thickness at maximum 600mm centres, and the overhang at ends and edges should not exceed 150mm. Where thin panels (6mm or less) are being stacked, it is recommended that they are supported under their whole area by a thicker panel (≥ 18mm).

Stacking panels on their edges should be avoided. Where space will only permit stacking on edge, then the edges should not come into direct contact with the ground or floor to avoid any possible moisture pick-up or damage.

Failure to follow written storage guidelines may result in reduced panel quality and could render the product unusable due to permanent warping or bending.

During transport the panels should be protected from any water or structural damage. When lifting, moving and stacking panels, edge protection should be provided to avoid damage by lifting ropes and/or forklift tines.

When handling pre-finished panels, it is essential to avoid damage or dirt on the finished surfaces. Pre-finished panels should be lifted from the stack and not slid. Incorrect handling of wood-based panels can result in either damage to the panels or injury to the operative, and it is therefore important that correct handling techniques are employed.

MEDITE MR LITE

CUTTING AND MACHINING

MEDITE MR LITE MDF can be machined and cut by hand or with power tools using standard woodworking tools. It is important to follow standard woodworking best practice (sharp cutters, adequate support for saws and cutters, dust extraction etc.), as this will help ensure that a high-quality result is achieved safely.

High moisture content in a panel will affect the quality of the cut and should therefore be avoided wherever possible. Panels should also be cut to size after conditioning when a close cut is required, making sure the moisture content when machining the panel is as close as possible to its final in-service moisture content.

MEDITE MDF is pre-sanded, providing a smooth surface that is ready to be painted or laminated. However, if applying very thin surface foils, a further light sanding with 200 grit abrasive may be advisable. Excessive sanding of the faces should be avoided, as this can cause an imbalance on the surface which can lead to warping.

FIXING AND GLUING

MEDITE MDF panels can be fixed using standard woodworking fixings (nails, screws or staples), adhesives, or a combination of fixings and adhesives (e.g. wood dowels).

When using screws, it is recommended to predrill the panel to a diameter at least 85% of the screws core diameter. When inserted on the surface the fixings should be at least 12mm from the panel edge and 25mm from the panel corner. When inserted into the edge the fixing should be at least 70 mm from the panel corner. Nails and staples have lower holding capacity than screws and are usually used to hold glued joints during the setting time.

Adhesives can be used to fix panels in position, glue surface finishes to the MDF panels, or join panels or other wood-based products together. Most wood glues are suitable for use on MEDITE MDF panels. The type and grade of adhesive should be chosen for the application and end use conditions. Attributes to consider include glue strength, moisture and durability performance, curing times, compatibility with other materials, where required, and ease of use.

LAMINATING AND COATING

MDF is a suitable substrate for paints, stains, varnishes and textured coatings, and can be veneered and laminated with high- and low-pressure laminates, paper and PVC foils. MEDITE MDF can be decorated with conventional paints, coatings and stains, taking care that the appropriate primers are used.

It is vital that MEDITE MR LITE is 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 the declared service class, provided an appropriate coating system is used.



MEDITE® MR LITE

There are a variety of paint and coating systems suitable for use on MDF panels for all interior, dry or humid conditions, or exterior applications. Always follow paint manufacturer's guidelines when coating MEDITE MDF panels to ensure the highest quality is achieved. It is recommended that corners and edges are rounded to a minimum radius of 3mm, by machining or light sanding, to enhance paint retention and ensure a continuous film thickness as all paints tend to draw away from a sharp edge or corner. This is particularly important with panels exposed to exterior conditions. The edges of MDF panels are more porous than the panel surfaces, and as a result, absorption at the edges is greater than on the face and care must be taken to ensure that edges are adequately sealed.

Wood veneers, plastic laminates, paper, and foils can be applied on MEDITE MDF panels. The appropriate adhesive should be selected for the manufacturing process and end use application of the finished product. In most applications the use of a balancing laminate or veneer is required to avoid panel deformation.

TECHNICAL SPECIFICATION SHEET

Property	Standard	Unit	12.0mm	>12.0mm to 18.0mm
Internal Bond	EN 319	N/mm²	≥ 0.45	≥ 0.45
Modulus of Rupture	EN 310	N/mm²	≥ 20.0	≥ 18.0
Modulus of Elasticity	EN 310	N/mm²	≥ 1700	≥ 1600
Screw Holding Face	EN 320	N	-	800
Screw Holding Edge	EN 320	N	-	500
Thickness Tolerance	EN 324-1	mm	±0.15	±0.15
Thickness Swelling (24 hrs)	EN 317	%	< 16.0	< 13.0
Dimensional Movement				
Length/Width	EN 318	%	0.30	0.30
Thickness	EN 318	%	4.0	4.0
Changes After Wet Cycle Test - EN 321				
Thickness Swelling	EN 317	%	≤ 16.0	≤ 15.0
Internal Bond	EN 319	N/mm²	≥ 0.25	≥ 0.20

The MEDITE MDF range delivers an innovative selection of products, each designed with specific performance benefits. **MEDITE MR** is a moisture resistant MDF panel perfect for use in humid interior environments or in applications where superior machinability is required.

Find out more.



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QUALITY & ENVIRONMENTAL CERTIFICATION

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 - Wood-based panels for use in construction – characteristics, evaluation of conformity and marking. 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.

MEDITE operates under an Integrated Management System (IMS) for Quality (ISO 9001), environment (ISO 14001), Health and Safety (ISO 45001) and Energy (ISO 50001), which is certified by the National Standard Authority of Ireland (NSAI).

All MEDITE products are manufactured from Forest Stewardship Council® (FSC) certified timber, and other controlled sources.

MEDITE operates under an Industrial Emissions (IED) licence, which is monitored by the Environmental Protection Agency (EPA) in Ireland.



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CE

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FORMALDEHYDE EMISSIONS – EU REACH AND CARB

An EU REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals) revision (effective 06/08/2026) imposes new formaldehyde emission limits in Europe on all formaldehyde emitting products, including wood-based panels. This restriction is introduced under EU REACH Annex XVII (Formaldehyde Restriction). The limit of the harmonised standard for wood-based panels EN13986, known as E1, is 0.124 mg/m^3 and the new EU REACH restriction lower this threshold to 0.062mg/m^3 for wood-based panels, introducing the industry classification E05.

MEDITE MR LITE MDF panels meet the lower EU REACH requirements (E05). Compliance is confirmed by tests to EN 717-1 as recommended by guidelines from the European Chemicals Agency (ECHA).

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) Entwicklungs- und Pruflabor 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.

EXPLORE OUR MEDITE RANGE

For quick reference, see below our table that highlights each product's features and benefits.

PRODUCT	General Purpose Joinery	Deep Routed Profiles	Can be Veneered/ Laminated	Moisture Resistant	Flame Retardant	Structural Sheathing Panel	No Added Formaldehyde	External Use
MEDITE PREMIER	●		●					
MEDITE MR	●	●	●	●				
MEDITE INDUSTRIAL MR	●	●	●	●				
MEDITE MR LITE	●		●	●				
MEDITE LITE	●		●					
MEDITE CLEAR	●		●				●	
MEDITE EXTERIOR			●	●			●	●
MEDITE MR PLUS	●			●				
MEDITE PREMIER FR			●		●			
MEDITE VENT						●	●	



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For further information and/or technical advice please contact our dedicated customer service team.

UK: +44 (0) 1322 424900
Ireland: +35 (0) 3518 10205
France: +33 (0) 9751 89830
Netherlands: +31 (0) 8588 86230
Belgium: +32 (0) 2808 6256

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The recommendations provided in this technical datasheet for the correct use of **MEDITE MR LITE** are specifically designed to ensure longevity and performance of this quality product in service. It is therefore essential that these recommendations are strictly followed.

The product is designed to be installed by a competent contractor, experienced with this type of product. MEDITE EUROPE DAC cannot be held responsible for damages arising from nonadherence to these recommendations, or product failures resulting from inadequate structural design or misuse of this product.

In order to provide comprehensive guidance for the correct use of **MEDITE MR LITE**, this technical datasheet makes reference to relevant BS and EN standards. MEDITE EUROPE DAC cannot be held responsible for claims arising from the use of any information that has been extracted from such sources.