



MEDITE CLEAR is an MDF panel with no added formaldehyde, developed specifically for use in environmentally sensitive interior applications, where formaldehyde emissions need to be kept to the minimum. Developed at MEDITE's world class MDF facility in Clonmel, MEDITE CLEAR broadens the range of the MEDITE family of high performance MDF products.

APPLICATIONS

MEDITE CLEAR is a panel product suitable for use in non-structural applications. It is ideal for cabinets, display cases, furniture, fixtures and mouldings designed for environmentally sensitive areas such as museums, laboratories, art galleries, nursing homes, hospitals, nurseries and schools. MEDITE CLEAR is only suitable for use in internal dry conditions, Service Class 1 as defined in Eurocode 5. Boards of this type are suitable for use only in Use Class 1 of EN 335.

PERFORMANCE

No formaldehyde is added to the softwood fibres in the manufacture of MEDITE CLEAR. The resultant product far exceeds the rigid Class E1 (EN 13986) low formaldehyde standard. Although formaldehyde is found naturally in wood, and no wood product can be entirely formaldehyde free, independent tests have shown that the free formaldehyde content of MEDITE CLEAR is less than 1.0mg/100g (equivalent or less than natural wood).

APPEARANCE

MEDITE CLEAR retains the light tan colour of the wood fibre from which it is manufactured.

CONDITIONING

The moisture content of MEDITE CLEAR 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 CLEAR panels should be conditioned to the final environment for two to three days before cutting, finishing and fixing.

MACHINING/FINISHING

Cut or profiled edges of MEDITE CLEAR 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 topcoat. 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. Formaldehyde free coatings are available. Please check with your supplier.

REACTION TO FIRE

MEDITE CLEAR (≥9.0mm) reaction to fire performance is D,s2,d0 as per the requirements of EN 13986.

QUALITY

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

SUPPLY

MEDITE CLEAR is produced in 9, 12, 15 and 18mm. 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 CLEAR, please contact MEDITE Technical Support Personnel:

UK: +44 (0) 1322 424900

Ireland: +353 5 181 0205

Germany: +49 32221097221

France: +33 975189830

Netherlands: +31 858886230

Belgium: +32 28086256

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) Entwicklungs-und 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 CLEAR MDF TECHNICAL SPECIFICATION SHEET

PROPERTY	STANDARD	UNIT	>6.0 to 9.0mm	>9.0mm to 12.0mm	>12.0mm to 19.0mm
Internal Bond	EN 319	N/mm ²	≥ 0.65	≥ 0.60	≥ 0.55
Modulus of Rupture	EN 310	N/mm ²	≥ 23	≥ 22	≥ 20
Modulus of Elasticity	EN 310	N/mm ²	≥ 2700	≥ 2500	≥ 2200
Screw Holding Face	EN 320	N	-	-	1000
Screw Holding Edge	EN 320	N	-	-	900
Moisture Content	EN 322	%	4 to 11	4 to 11	4 to 11
Thickness Tolerance	EN 324-1	mm	± 0.2mm	± 0.2mm	± 0.2mm
Thickness Swelling (24hrs)	EN 317	%	< 17	< 15	< 12
DIMENSIONAL MOVEMENT	STANDARD	UNIT	>6.0 to 9.0mm	>9.0mm to 12.0mm	>12.0mm to 19.0mm
Length/Width	EN 318	%	0.30	0.30	0.30
Thickness	EN 318	%	4.0	4.0	4.0

The results as listed above are based on the minimum specification requirements for all MEDITE CLEAR (No Added Formaldehyde) Grade MDF manufactured by MEDITE EUROPE DAC. All board parameters are in compliance with EN 622 parts 1 & 5. As part of the MEDITE EUROPE DAC ongoing product development programme the right to modify these product specifications without notice is reserved. No formaldehyde is added to the softwood fibres during manufacture of MEDITE CLEAR. All MEDITE MDF panels comply to Class E1, MEDITE continuously monitor formaldehyde emissions of panels as required in EN622 part 1 & 5 in accordance with ISO 12460-3.

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