Medite Ecologique

Medite Ecologique is an MDF panel with Zero 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 Ecologique broadens the range of the Medite family of high performance MDF products.

Applications Medite Ecologique is a panel product suitable for use in non-stressed 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 Ecologique is only suitable for use in internal dry conditions as defined in EN 622 part 5. Boards of this type are suitable for use only in Hazard Class 1 of EN 335-3.

Performance No formaldehyde is added to the softwood fibres in the manufacture of Medite Ecologique. The resultant product far exceeds the rigid Class E1 (EN 622-1) 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 Ecologique is less than 1.0mg/100g (equivalent or less than natural wood). The formaldehyde emissions from Medite Ecologique are well below general ambient outdoor levels.

Appearance Medite Ecologique retains the light tan colour of the wood fibre from which it is manufactured.

Conditioning The moisture content of Medite Ecologique 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 Ecologique panels should be conditioned to the final environment for two to three days before cutting and fixing.

CARB 2 COMPLIANT MDF

Machining/finishing Cut or profiled edges of Medite Ecologique 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. Formaldehyde free coatings are available. Please check with your supplier.

Fire rating Medite Ecologique is expected to achieve a fire class rating of Euroclass D within the new European classifications.

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

Supply Medite Ecologique is produced in 9mm, 12mm, 15mm and 18mm. Panel sizes will vary according to customer requirements. Other thicknesses are available by special request.

Service For further information and/or technical advice regarding processing and painting/ finishing Medite Ecologique, please contact Medite Technical Support Personnel through any of our European offices. **www.medite-europe.com**

All Medite MDF products supplied for use in the construction and civil engineering industries are CE marked according to the requirements of the harmonized 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 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.

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Medite Ecologique MDF Technical Specification Sheet Thickness (mm)

PROPERTY	RANGE	TEST METHOD	UNITS	6.0 to 9.0	>9.0 to 12.0	>12.0 to 19.0
Internal Bond	Min	EN 319	N/mm²	0.9	0.8	0.8
Modulus of Rupture	Min	EN 310	N/mm²	35.0	32.0	30.0
Modulus of Elasticity	Min	EN 310	N/mm²	3500	3200	3000
Screw Holding Face	Min	EN 320	N	~	~	1000
Screw Holding Edge	Min	EN 320	N	~	~	900
Moisture Content	Min-Max	EN 322	%	5-9	5-9	5-9
Thickness Tolerance	Min-Max	EN 324-1	mm	+/-0.15	+/-0.15	+/-0.20
Thickness Swelling (24hrs)	Max	EN 317	%	20.0	15.0	10.0
DIMENSIONAL MOVEMENT						
Length/Width	Max	EN 318	%	0.30	0.30	0.30
Thickness	Max	EN 318	%	4.0	4.0	4.0

The results as listed left are based on the minimum specification requirements for all Medite Ecologique (Zero Added Formaldehyde) Grade MDF manufactured by Medite Europe. All board parameters are in compliance with EN 622 parts 1 & 5. As part of the Medite Europe 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 Ecologique. Free formaldehyde is less than 1.0mg/100g using EN 120 test method, complying with the lower levels required by CARB phase 2