

# MEDITE®

## FR ECO EUROCLASS B



**MEDITE FR ECO Euroclass B** is an MDF panel developed specifically for use in environmentally sensitive interior applications where formaldehyde emissions need to be kept to a minimum but where a Euroclass B flame retardant board is also required under building regulations. Developed at MEDITE's world class MDF facility in Clonmel, MEDITE FR ECO Euroclass B broadens the range of the MEDITE family of high performance MDF products.

### APPLICATIONS

MEDITE FR ECO Euroclass B is a panel product suitable for use as wall linings, partitions, ceiling tiles, display panels and cases, furniture and fixings within an environmentally sensitive area such as museums, laboratories, hospitals and all public buildings. MEDITE FR ECO Euroclass B is not suitable for external or structural applications, or where exposure to water or high relative humidity may be encountered. MEDITE FR ECO Euroclass B is suitable for use in internal dry conditions as defined in EN 622 – 5. Boards of this type are suitable for use in Hazard Class 1 of EN 335-3.

### PERFORMANCE-FIRE RESISTANCE

MEDITE FR ECO Euroclass B has no formaldehyde added to the softwood fibres in the manufacture. The resultant product far exceeds the rigid Class E1 low formaldehyde standards and also the lower levels required by CARB Phase 2. 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 FR ECO Euroclass B is less than 1.0mg/100g (equivalent or less than natural wood). The formaldehyde emissions from MEDITE FR ECO Euroclass B are well below general ambient outdoor levels.

### APPEARANCE

MEDITE FR ECO Euroclass B is distinguishable from other MEDITE products by its dark tan colour.

### MACHINING/FINISHING

Cut or profiled edges of MEDITE FR ECO Euroclass B should first be sanded with 150-240 grit, prior to painting. When choosing a coating system it should be confirmed with the paint manufacturer that the coating will not adversely affect the classification of the MEDITE FR ECO Euroclass B panel. There is a variety of flame retardant paints to choose from, which provide resistance and wear qualities equal to general decorative paints. The method of application will depend directly on the type of paint selected.

### CONDITIONING

The moisture content of MEDITE FR ECO Euroclass B is in the range of 4 - 8% 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 FR ECO Euroclass B panels should be conditioned to the final environment for two to three days before cutting and fixing.

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### AUTHORITY

MEDITE FR ECO Euroclass B (EN 13823 + EN 11925-2) is manufactured under an NSAI registered I.S. EN ISO 9001 quality management system.

### SUPPLY

MEDITE FR ECO Euroclass B is produced on request to minimum volume requirements.

### FIRE RATING

FR certification available on request.

### SERVICE

For further information and/or technical advice regarding processing and painting/finishing MEDITE FR ECO Euroclass B 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) 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 FR ECO EUROCLASS B MDF TECHNICAL SPECIFICATION SHEET

PROPERTY	RANGE	TEST METHOD	UNITS	6.0 to 9.0mm	>9.0 to 12.0mm	>12.0 to 19.0mm	>19.0 to 25.0mm
Internal Bond	Min	EN 319	N/mm <sup>2</sup>	0.90	0.90	0.80	0.70
Modulus of Rupture	Min	EN 310	N/mm <sup>2</sup>	28.0	28.0	24.0	22.0
Modulus of Elasticity	Min	EN 310	N/mm <sup>2</sup>	3,000	3,000	2,800	2,500
Screw Holding Face	Min	EN 320	N	-	-	1500	1500
Screw Holding Edge	Min	EN 320	N	-	-	1000	1000
Moisture Content	Min-Max	EN 322	%	4.0 - 8.0	4.0 - 8.0	4.0 - 8.0	4.0 - 8.0
Thickness Tolerance		EN 324-1	mm	+/-0.15	+/-0.15	+/-0.15	+/-0.15
Thickness Swelling (24hrs)	Max	EN 317	%	15.0	10.0	7.0	5.0
DIMENSIONAL MOVEMENT							
Length/Width		EN 318	%	0.40	0.40	0.40	0.40
Thickness		EN 318	%	6.0	6.0	6.0	6.0

The results as listed above are based on the minimum specification requirements for all MEDITE FR ECO Euroclass B 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 FR ECO Euroclass B conforms to E1 formaldehyde levels as well as also complying with the lower levels required by CARB phase 2.

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