



MDF Climate

Substrates Collection

MDF Climate is a medium density fibreboard with zero added formaldehyde, developed specifically for use in environmentally sensitive interior applications and contributes to improved indoor air quality. Ideal for museums, hospitals, schools and others.

Thickness

3 / 6 / 9 / 12 / 15 / 18 mm

Dimensions

1220 × 2440 mm

Characteristics



**Super E0
No Added Formaldehyde**
No formaldehyde added during its manufacturing process, it contains less than 1.0mg/100g of formaldehyde.



H1 Dry Conditions
Suitable for interior spaces that frequently use air conditioning.

Technical
Specifications

General Requirements for Medium Density Fibreboard

Properties		Test Method	Requirement
Tolerance on Nominal Dimensions	Thickness	EN 324-1	± 0.2 mm
	Length/Width		± 0.3 mm
Squareness Tolerance		EN 324-2	2 mm/m
Tolerance of Density		EN 323	± 10%
Formaldehyde Release		EN 120	Class E1 ≤ 8mg/100g

Requirements for Medium Density Fibreboard for use in Dry Conditions

Properties	Test Method	Unit	Thickness (mm, nominal dimension)		
			> 9 to 12	> 12 to 19	> 19 to 25
Bending Strength	EN 310	N/mm ²	22	20	18
Modulus of Elasticity	EN 310	N/mm ²	2500	2200	1900
Internal Bond	EN 319	N/mm ²	0.6	0.55	0.55
Swelling in thickness	EN 317	%	15	12	10

Requirements for Medium Density Fibreboard for use in Humid Conditions

Properties	Test Method	Unit	Thickness (mm, nominal dimension)		
			> 9 to 12	> 12 to 19	> 19 to 25
Average Density	EN 323	Kg/m ³	> 700	> 700	> 700
Bending Strength	EN 310	N/mm ²	32	30	28
Modulus of Elasticity	EN 310	N/mm ²	2800	2700	2600
Internal Bond	EN 319	N/mm ²	0.8	0.75	0.75
Swelling in thickness	EN 317	%	10	8	7

MDF Climate Application Areas

Furniture and Woodworking	
Lamination of Surface Elements (Melamine, Laminates and Foils)	•
Spray Painting	•
Easy processing with woodworking tools	•
Excellent grip of fasteners (Screws, nails and staples)	•
Decorative Surface	
Attractive Edges	
Homogeneous Appearance Throughout	•

Building and Structural Applications	
High Moisture and Humidity Resistance	H1
Increased Fire Safety Regulations	
Termite Resistance	High resin content naturally increases termite resistance
Climate Sensitive Applications (Ultra Low VOC)	•
Horizontal Load-bearing Applications	
Non Load-bearing Walls, Partitions and Ceilings	•
Formwork	

Other Technical and Industrial Applications	
Door production with increased fire safety regulations	
Suitable for use in marine vessels	
Temporary Outdoor Exhibitions	
Packaging Industry	
Signage and Billboards	•
Warehouse Management (Racking)	

• Recommended