

# Trade Essentials® E0 White MDF

Trade Essentials E0 White MDF is a high quality Medium Density Fibreboard (MDF) with a white melamine surface bonded to both sides. The melamine surface is nonporous and hardwearing making it ideal for cabinetry. White MDF is very versatile, as the MDF core allows the panel to be used as a pre-finished product, or face routed and finished with a paint system where required. MDF is a wood based panel and reacts to changes in moisture like natural timber, ie. high or low humidity will cause some expansion or contraction without any effect on the strength of the board.



## APPLICATIONS

Trade Essentials® White MDF is available in Standard (STD) and Moisture Resistant (MR) grades, with surface finishes including Décor Texture, Velvet and Satin finishes.

White MDF STD is a high quality MDF substrate with a hardwearing white melamine surface bonded to both sides. White MDF STD is designed for interior use in built-in cupboards, wardrobes and furniture, shelving, wall linings and all detailed joinery where the product will not be exposed to damp conditions or high humidity.

White MDF MR is a highly moisture resistant MDF with a hardwearing white melamine surface bonded to both sides. It is suitable for use in areas of high humidity, or where accidental exposure to moisture may occur. White MDF MR is designed for interior use in kitchen cupboards, bathroom vanities, laundry cupboards, shelving, built in cupboards, wardrobes and furniture, wall linings and all detailed joinery where a moisture resistant decorative board is required.

Trade Essentials Single Sided MDF is a highly moisture resistant MDF, sanded smooth on one side and bonded on the other side with a hard wearing melamine surface. Single Sided MDF is manufactured for the membrane pressing and painted panel market.

## PROPERTIES

(Typical physical properties when tested to AS/NZS 1859.2 for White MDF STD)

Property	Unit	THICKNESS	
		16mm-18mm	21mm-25mm
Board Density	kg/m <sup>3</sup>	730	700
Internal Bond	MPa	0.90	0.70
Modulus of Rupture	MPa	43.0	36.5
Modulus of Elasticity	MPa	3600	3400
Surface Soundness	MPa	1.7	1.8
Screw Holding, Face	N	≥ 700	≥ 700
Screw Holding, Edge	N	≥ 1100	≥ 1100
Thickness Swell (24hr)	%	<4	<4
Wet Bending Strength (Method A)	MPa	9.7	8.5
Formaldehyde Level	mg/L	≤ 0.5	≤ 0.5

**Note:** White MDF Satin Finish: the surface is suited to professionally prepared 2-pack polyurethane or similar coating systems. Water based paints do not tend to bond easily to melamine surfaces and as such, the use of acrylic or domestic oil based paint is not recommended. In all applications, the painting of melamine panels should be referred to a reputable paint-trade professional. To achieve the best 2-pack polyurethane finish, recommendation is the use of undercoat on the painted surfaces prior to the final finishing coats being applied. The Laminex Group accepts no responsibility for the paint finish on the white melamine surface.

## SHEET SIZES & THICKNESSES

For sheet sizes and thicknesses see Appendix 6.

## WEIGHT

Thickness	16mm	18mm	21mm	25mm
kg per m <sup>2</sup>	11.6	13.1	14.7	17.6

## FIRE HAZARD INDICES

(Typically achieved when tested to AS/NZS 1530.3)

Indices	Result	Range
Ignitability	14	0-20
Spread of Flame	8	0-10
Heat Evolved	7	0-10
Smoke Developed	4	0-10

## FIRE TEST RESULTS

Cone Calorimeter (Results when tested in accordance with AS/NZS 3837)

Classification	Result
Group Number	3
Average Specific Extinction Area	47.0Kg/m <sup>2</sup>