

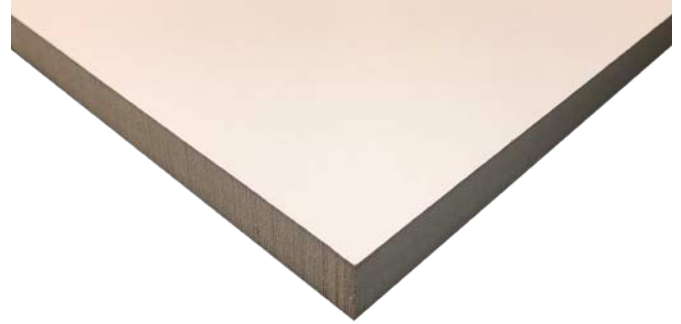
trade essentials®

Ultracraft™ MDF Panels for painting

Technical Data Sheet

Summary

Trade Essentials Ultracraft Medium Density Fibreboard (MDF) Panels provide the high grade surface routing performance required for painted doors & panels, while reducing the need for finishing processes, such as sanding thereby increasing manufacturing efficiencies.



Applications

- Doors
- Panels
- Cabinetry
- Wardrobes
- Kitchens
- Bathrooms

Functional Benefits



Vertical Application



Easy To Machine



Primer Friendly



Low Sanding



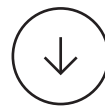
Stain Resistant



Impact Resistant



UV Stable Indoor Use



Low Maintenance



Dimensional Stability

Product Characteristics

Attribute	Description
Product Category	Low Pressure Melamine (Double sided - available with or without protective film)
Substrate Type	Moisture Resistant EO MDF
Sheet Size (nominal)	2400mm x 1200mm, 3600mm x 1200mm
Thickness (nominal)	18mm
Weight (Kg/m ² approx.)	15.0
Finish	Satin
Colour/Pattern	To view the full range, please visit www.laminex.com.au

Surface Performance (Tested to AS/NZS 1859.3)

Attribute	Minimum Values
Resistance to Surface Abrasion	Solid colours: Average wear ≥ 300 cycles
Porosity	Rating ≤ 3
Steam Resistance	Appearance rating not worse than 3 <i>Moderate swelling</i>
Cracking Resistance	No visible cracks or micro cracks
Stain Resistance	Rating ≤ 2 <i>Faint stain left on surface</i>
Lightfastness (Tested to ISO 4586-2)	Contrast: Grey scale rating ≥ 4 <i>When tested in contrast with Blue wool 6 ref: ISO 105-A02</i>

Substrate Performance (Tested to AS/NZS 1859.2)

Attribute	Units	Typical Values*
		18mm
Thickness Tolerance	mm	±0.3
Density	Kg/m ³	830 ± 20
Internal Bond	MPa	1.4 - 1.6
Modulus of Rupture	MPa	42 - 48
Modulus of Elasticity	MPa	3500 - 3900
Surface Soundness	MPa	1.3 - 1.9
Screw Holding, Face	Force N	1100 - 1400
Screw Holding, Edge	Force N	1000 - 1300
Thickness Swell (24hr)	%	4 - 5
Wet Bending Strength (Method A)	MPa	8 - 11
Formaldehyde	mg/L	E0 ≤ 0.5

* Table contains representative values only. Performance variation outside stated typical values does not constitute a product failure.

Specialty Performance

Attribute	Tested to	Typical Values	
Fire Hazard Properties	AS/NZS 3837 (In accordance to AS5637.1)	Group Number	3
		Average Specific Extinction Area (ASEA)	18.2 m ² /Kg

Emissions & Environmental Performance

Attribute	Tested to	Unit	Minimum Values
Formaldehyde	AS/NZS 1859.2	mg/L	E0 ≤ 0.5
Volatile Organic Compounds (VOC)	ASTM D5116	mg/m ² /h	≤ 0.05

Important Information

Note	Details		
Ⓢ ONLY use for internal applications	Claims arising from non-internal applications are not covered under warranty		
Ⓢ ONLY use for vertical applications	Claims arising from horizontal applications are not covered under warranty		
Ⓢ DO NOT expose to prolonged direct or indirect UV light	Claims arising from prolonged exposure to UV light (natural or artificial sources) resulting in colour changes beyond the tolerances stated in this document, are not covered under warranty		
Ⓢ DO NOT use in high impact or high surface durability installations	Claims arising from high impact or high surface durability applications are not covered under warranty		
Ⓢ DO NOT allow heat, hot gases or moisture to contact doors or panels	Claims arising from frequent or excessive exposure to heat or moisture are not covered under warranty		
	Claims arising from damage due to front venting oven installations without a heat deflector shield are not covered under warranty		
	Claims arising from damage due to fugitive heat or moisture leaking from appliance seals are not covered under warranty		
	Claims arising from the use of benchtop hot plates without exhaust fan activation or use of an ineffective extraction, are not covered under warranty		
	Claims arising from damage due to hot objects, such as saucepans or irons, contacting the decorative surface, are not covered under warranty		
Ⓢ DO NOT expose to humidity fluctuations	Claims arising from bow, warp or twisting are not covered by warranty		
Ⓢ ONLY use Ultracraft double sided panels for painting	Claims arising from non-painting applications, are not covered under warranty.		
	Claims arising from the use of alternative substrate materials for painting door & panel applications, are not covered under warranty		
Ⓢ DO NOT trench rout deeper than 8mm into the panel face	Claims arising from surface imperfections or panel bow attributable to trench rout depths more than 8mm, are not covered by warranty		
Ⓢ DO NOT remove 30% or more of total panel volume	Claims arising from pocket routed door designs of dimensions that result in 30% or more of the total panel volume being removed, are not covered under warranty		
Ⓢ DO NOT use pocket routed door designs with a frame width less than 60mm	Claims arising from surface imperfections or panel bow attributable to frame widths less than 60mm, are not covered by warranty		
Ⓢ ONLY use recommended hinge quantities	Claims arising from bow, warp or twisting due to too few hinges or inappropriate door sizes or weights, are not covered under warranty		
	Door Height (mm)	Door Weight (Kg)	No. of Hinges
	≤ 900 mm	≤ 9 Kg	2
	≤ 1600 mm	≤ 15 Kg	3
	≤ 2000 mm	≤ 19 Kg	4
≤ 2400 mm	≤ 23 Kg	5	
Ⓢ ONLY use large one-piece pocket routed door and panel designs with a central rail or split door configuration	Claims arising from bowing, twisting or warpage due to a lack of structural design integrity or the omission of either a central rail or split door construction, are not covered under warranty		
Ⓢ DO NOT install converted components with unsealed edges	Claims arising from the effect of heat or moisture ingress attributable to unsealed or poorly sealed edges, are not covered under warranty		

Ⓢ Denotes specific warranty conditions apply