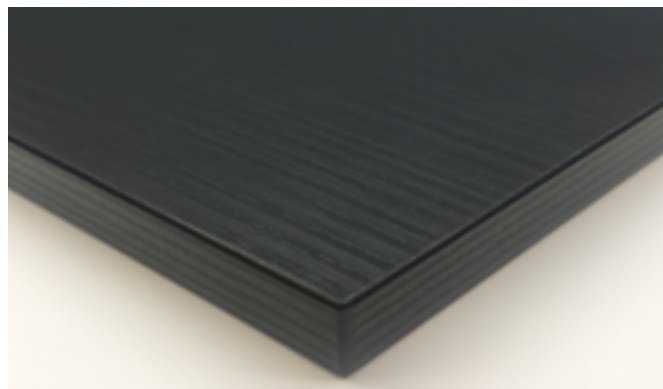


# DesignEdge™ Doors and Panels - Melamine Technical Data Sheet

## Summary

Laminex DesignEdge Doors and Panels are available in a range of colours and designs, each manufactured from Moisture Resistant E0 Medium Density Fibreboard (MDF), with an easy-clean durable Low Pressure Melamine (LPM) surface.



## Applications

- Kitchen
- Bathroom
- Laundry
- Commercial fit-outs

## Functional Benefits



Vertical Application



Low Maintenance



Stain Resistant



Heat Resistant



Water Resistant



UV Stable Indoor Use



Scratch Resistant

## Product Characteristics

Attribute	Description		
Product Category	Componentry		
Substrate Type	Moisture Resistant E0 MDF		
Sheet Size (nominal)	Made-to-Measure		
Thickness (nominal)	16mm, 18mm		
Weight (Kg/m <sup>2</sup> approx.)	11.5 – 13.0	12.0 – 13.7	12.9 – 14.5
Finish	Natural, Flint & Chalk	Nuance	Silk
Colour/Pattern	To view the full range, please visit <a href="http://www.laminex.com.au">www.laminex.com.au</a>		

## Surface Performance (Tested to AS/NZS 4266.2)

Attribute	Minimum Values	
Resistance to Surface Abrasion	Printed patterns ≥ 40 cycles. Solid colours ≥ 300 cycles	
Resistance to Scratching	Silk and Natural finish	Flint, Nuance and Chalk finishes
	≥ 2 Newton	≥ 4 Newton
Porosity	Appearance rating not worse than 3	
Resistance to Steam	Appearance rating not worse than 3 <i>Moderate swelling</i>	
Resistance to Cracking	No visible cracks or micro cracks	
Resistance to Staining	Rating ≤ 2 <i>Faint stain left on surface</i>	

## Surface Performance (Tested to AS/NZS 4266.2)

Attribute	Minimum Values
Colour Variation <i>ISO 105-A05</i>	Surface material "batch to batch" colour variation of $\Delta E \leq 1$

## Adhesion Performance

Attribute	Tested to	Unit	Minimum Values
Bond Strength	AS/NZS 4266.2 Section 13	MPa	$\geq 1.3$

## Substrate Performance (Tested to AS/NZS 1859.2)

Attribute	Units	Typical Values <sup>#</sup>		
		Natural, Flint & Chalk	Nuance	Silk
		16mm or 18mm		
Thickness Tolerance	mm	$\pm 0.3$		
Density	Kg/m <sup>3</sup>	720 ± 20	760 ± 20	805 ± 20
Internal Bond	MPa	0.8-1.0	1.0-1.2	1.0-1.3
Modulus of Rupture	MPa	35-37	37-40	40-45
Modulus of Elasticity	MPa	2900-3100	3000-3300	3300-3500
Surface Soundness	MPa	1.3-1.6		
Screw Holding, Face	Force N	1100 - 1400		
Screw Holding, Edge	Force N	1000 - 1300		
Thickness Swell (24hr)	%	5-7		
Wet Bending Strength (Method A)	MPa	5-6	6-8	7-9
Formaldehyde	mg/L	E0 $\leq$ 0.5		

<sup>#</sup>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	Cone calorimeter AS/NZS 3837 <i>(In accordance to AS5637.1)</i>	Group Number	3
		Average Specific Extinction Area (ASEA)	18.2 m <sup>2</sup> /Kg

## Emissions & Environmental Performance

Attribute	Tested to	Unit	Minimum Values
Formaldehyde	AS/NZS 1859.2	mg/L	E0 $\leq$ 0.5
Volatile Organic Compounds (VOC)	ASTM D5116	mg/m <sup>2</sup> /h	$\leq$ 0.5

## Important Information

Note	Details															
Ⓜ ONLY use for internal applications	Claims arising from non-internal 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 shrinkage and/or colour changes beyond the tolerances stated in this document, are not covered under warranty															
Ⓜ DO NOT use for high impact or high traffic installations	Claims arising from high impact or high traffic installations are not protected 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															
Ⓜ DO NOT mix different surface materials within a single installation	Claims arising from colour variation, including products with different UV or aging stabilities, are not covered under warranty															
Ⓜ ONLY use recommended Care & Maintenance methods	Claims arising from staining or damage attributable to not following Care & Maintenance instructions, are not covered under 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															
	<table border="1"> <thead> <tr> <th>Door Height (mm)</th> <th>Door Weight (Kg)</th> <th>No. of Hinges</th> </tr> </thead> <tbody> <tr> <td>≤ 900 mm</td> <td>≤ 9 Kg</td> <td>2</td> </tr> <tr> <td>≤ 1600 mm</td> <td>≤ 15 Kg</td> <td>3</td> </tr> <tr> <td>≤ 2000 mm</td> <td>≤ 19 Kg</td> <td>4</td> </tr> <tr> <td>≤ 2400 mm</td> <td>≤ 23 Kg</td> <td>5</td> </tr> </tbody> </table>	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
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Ⓜ DO NOT modify or alter the door or panel	Claims arising from any alteration to the decorative face or panel that results in poor adhesion or general surface failure, are not covered under warranty															
Ⓜ DO NOT cut down panels	Claims arising from the effect of heat or moisture ingress attributable to exposed edges of cut down panels, are not covered under warranty															
Ⓜ DO NOT use scribed wall panels with unsealed edges	Claims arising from the effect of heat or moisture ingress attributable to unsealed or poorly sealed scribed wall panel edges, are not covered under warranty															

Ⓜ Denotes specific warranty conditions apply