

# ColourTech® Doors & Panels

## Technical Data Sheet

### Summary

Laminex ColourTech Doors and Panels are available in a range of colours and designs, each manufactured from specialty Moisture Resistant E0 Medium Density Fibreboard (MDF) and coated in an advanced 2-Pac polyurethane paint to provide an easy-clean durable surface.

### Applications

- Kitchen
- Bathroom
- Laundry
- Commercial fit-outs



### Functional Benefits



Vertical Application



Stain Resistant



Heat Resistant



Water Resistant



Tactile



UV Stable Indoor Use

### Product Characteristics

Attribute	Description
Product Category	Componentry
Substrate Type	Ultracraft™ Moisture Resistant E0 MDF - for Painting
Sheet Size (nominal)	Made-to-Measure
Thickness (nominal)	18mm
Weight (Kg/m <sup>2</sup> approx.)	15.0
Finish	Gloss, Satin & Texture
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 ISO 4586-2)

Attribute	Minimum Values
Resistance to Surface Wear	Initial wear ≥ 50 cycles. Average wear ≥ 100 cycles
Resistance to Scratching	Gloss
	Satin & Texture
Resistance to Scratching	Rating = 1 (Force <1 Newton)
	Rating =2 (Force ≥1 Newton)
Resistance to Dry Heat at 180°C	Appearance rating not worse than 4 <i>Slight change of gloss and/or colour, only visible at certain viewing angles</i>
Resistance to Wet Heat at 100°C	Appearance rating not worse than 4 <i>Slight change of gloss and/or colour, only visible at certain viewing angles</i>
Resistance to Impact by Small Diameter Ball	Force ≥ 15 Newton
Lightfastness	Contrast: Grey scale rating ≥ 4 <i>When tested in contrast with Blue wool 6 Ref: ISO 105-A02</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 $\Delta E \leq 1$
Surface Water Absorption	$\leq 10 \text{ g/m}^2$
Porosity	Appearance rating not worse than 3 <i>Moderate staining</i>
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 $\leq 2$ <i>Faint stain left on surface</i>

\*Due to limitations in current 2Pac polyurethane paint technology, Laminex will not guarantee to match colour and finish for re-make orders over 3 months of age.

## Adhesion Performance

Attribute	Tested to	Unit	Minimum Values
Crosscut Adhesion	AS/NZS 1580.408.2	%	$\leq 35$
Bond Strength	AS/NZS 4266.2 Section 13	MPa	$\geq 0.6$

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

Attribute	Units	Typical Values <sup>#</sup>
		18mm
Thickness Tolerance	mm	$\pm 0.3$
Density	$\text{Kg/m}^3$	$830 \pm 20$
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	$E0 \leq 0.5$

<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)	71.8 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															
Ⓜ 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 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 use large one-piece pocket routed door or panel designs	Claims arising from dimensional bowing, twisting or warpage due to the omission of either a central rail or split door construction, are not covered under warranty.															
Ⓜ 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															
Ⓜ Colour and finish matches are not guaranteed for remakes older than 3 months (from date of first purchase)	Claims arising from batch to batch colour variation in remake orders older than 3 months (from date of first purchase) will not be covered under warranty.															

Ⓜ Denotes specific warranty conditions apply