

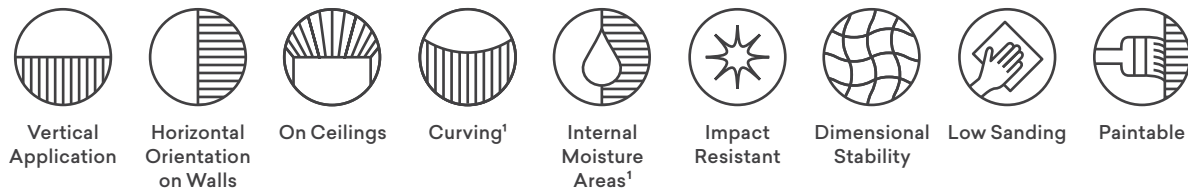
# SURROUND by Laminex®

Surround by Laminex® is designed for interior wall and ceiling applications and is manufactured from moisture resistant Medium Density Fibreboard (MDF). Each panel has one face routed with a regular decorative pattern which is primed with water-based paint. All 12mm panels have a reverse flat face sealed with a white Low Pressure Melamine (LPM).

## Applications

Wall and ceiling panelling.

## Functional Benefits



<sup>1</sup> Additional considerations and steps required. Surround by Laminex is prohibited for use in splash zones. Curving should only be undertaken by a person experienced in kerfing and mould making. Follow all instructions outlined in the latest Fabrication and Installation Manual.

## Product Characteristics

Attribute	Description
Product Category	Wall and Ceiling Solutions
Substrate Type	Moisture Resistant E0 MDF
Sheet Size (nominal)	2400mm x 1200mm and 3000mm x 1200mm
Thickness (nominal)	9mm   12mm
Weight (Kg/m <sup>2</sup> approx.)	6.9   9.2
Finish	Primed Front Face (water-based)
Colour/Pattern	To view the full range, visit <a href="http://laminex.co.nz">laminex.co.nz</a>

## Dimensional Tolerance (Tested to AS/NZS 4266.1)

Attribute	Measurement
Length and Width	+5mm / -5mm maximum deviation
Squareness	2mm/m maximum deviation

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

Attribute	Measurement
Inspection Guidelines	Viewing distance 1.5m from surface. Light intensity approximately 800 to 1000 lx at the surface. Using normal vision, corrected if necessary. No magnification devices.

## Surface Performance

Attribute	Measurement
Crosscut Adhesion AS/NZS 1580.408.2	Rating $\leq 1$ <i>Maximum 5% flaking</i>
Primer Dry Coating	Thickness $\geq 45 \mu\text{m}$
Modulus of Rupture AS/NZS 4266.1	$\geq 15 \text{ MPa}$ (at weakest point of the routed profile)

## Substrate Performance (Tested to AS/NZS 4266.1)

Attribute	Units	Measurement	
		9mm – 12mm	
		Minimum Values	Typical Values <sup>#</sup>
Thickness Tolerance	mm	$\pm 0.2$	$\pm 0.2$
Density	Kg/m <sup>3</sup>	-	765 $\pm$ 20
Internal bond	MPa	0.60	1.00 - 1.20
Modulus of Rupture	MPa	28	40 - 43
Modulus of Elasticity	MPa	2400	3100 - 3300
Surface Soundness	MPa	0.6	0.9 - 1.2
Screw Holding, Face	Force N	-	-
Screw Holding, Edge	Force N	-	-
Thickness Swell (24hr)	%	(Max) 12.0	8.5 - 10.5
Wet Bending Strength (Method A)	MPa	6	6 - 8
Dimensional changes Length (65,85%)	mm/m	-	1.0
Dimensional changes Length (65,30%)	mm/m	-	-2.0
Dimensional changes Thickness (65,85%)	%	-	4.0
Dimensional changes Thickness (65,30%)	%	-	- 4.0
Formaldehyde	mg/L	$\leq 0.5$	E0 $\leq 0.5$

<sup>#</sup>Table contains representative values only of the non-profiled panels. Performance variation outside stated typical values does not constitute a product failure.

## Emissions & Environmental Performance

Attribute	Tested to	Units	Measurement
Formaldehyde	AS/NZS 1859.2	mg/L	E0 ≤ 0.5
Volatile Organic Compounds (VOC's)	ASTM D5116	mg/m <sup>2</sup> /h	TBC

## Important Information

This document must be referenced in conjunction with the latest version of the following, which can be accessed at [laminex.co.nz](http://laminex.co.nz):

- i. SURROUND by Laminex® Fabrication and Installation Manual.
- ii. SURROUND by Laminex® Limited Product Warranty.