SURROUND by Laminex™

Technical Data Sheet

Fire Resistant E1 MDF Substrate

Surround by Laminex™ is designed for interior wall applications and is manufactured from Medium Density Fibreboard (MDF). Each panel has one face routered 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

Interior area wall panelling

Functional Benefits

Vertical Application | Horizontal Orientation on Walls | Impact Resistant | Dimensional Stability | Low Sanding | Paintable

Product Characteristics

Attribute	Description
Product Category	Wall Solutions
Substrate Type	Fire Resistant E1 MDF (grey dyed core)
Sheet Size (nominal)	2400mm x 1200mm and 3000mm x 1200mm
Thickness (nominal)	9mm | 12mm
Weight (Kg/m² approx.)	6.9 | 9.2
Finish	Primed Front Face (water-based)
Colour/Pattern	To view the full range, visit laminex.co.nz

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 ≤ 1 *Maximum 5% flaking*
Primer Dry Coating	Thickness ≥ 45 µm
Modulus of Rupture AS/NZS 4266.1	≥ 15 MPa *(at weakest point of the routed profile)*

Substrate Performance (Tested to AS/NZS 4266.1)

		Measurement	
		9mm – 12mm	
Attribute	**Units**	**Minimum Values**	**Typical Values#**
Thickness Tolerance	mm	±0.2	±0.2
Density	Kg/m^3	-	765 ± 20
Internal bond	MPa	0.60	0.6
Modulus of Rupture	MPa	28	28
Modulus of Elasticity	MPa	2400	2800 - 3000
Surface Soundness	MPa	0.6	0.7 - 0.8
Screw Holding, Face	Force N	–	–
Screw Holding, Edge	Force N	–	–
Thickness Swell (24hr)	%	(Max) 12.0	8 - 11
Formaldehyde	mg/L	–	E1 = < 1.0

#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	E1 = < 1.0
Volatile Organic Compounds (VOC's)	ASTM D5116	$mg/m^2/h$	TBC

Specialty Performance

Attribute	Tested to	Typical Values	
Fire Hazard Properties	AS/ISO 9705 (In accordance to AS5637.1)	Group Number	2
		Smoke Growth Rate Index ($SMOGRA_{RC}$)	<100 m^2/s^2 x 1000

Important Information

This document must be referenced in conjunction with the latest version of the following, which can be accessed at laminex.co.nz:

i. SURROUND by Laminex™ Fabrication and Installation Manual.

ii. SURROUND by Laminex™ Limited Product Warranty.