Decorated MDF

Structural MR® E0

Summary

Laminex Structural* MR® E0 MDF has been designed for high wear commercial applications where durability and hygiene are important. A robust MDF core (including an extra high density MDF Core on the 18mm) give Laminex Structural MR E0 MDF superior impact resistance compared to Laminex Vertiboard Decorated Particleboard. Laminex Structural MR E0 MDF is offered in the lower formaldehyde emission level E0.

In addition, the front and back surfaces include Protec+ antimicrobial technology for added hygiene.

* This product is not suitable to serve as an integral component of a building (*e.g. to perform as load bearing walls/floors*). The term 'Structural' applies to the category of MDF, and should not be understood to meet the definition of structural material classified by the Building Code of Australia/National Construction Code.

Applications

- Built-in Furniture
- Hospital Fit outs
- School Desks & Furniture
- Cupboard Doors
- Table Tops
- Partitions
- Wall Linings
- Commercial Shelving
- Office Furniture

Functional Benefits

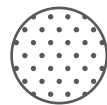| Light Horizontal Application | Low Wear Vertical Application | Impact Resistant | Antimicrobial | Stain Resistant | Heat Resistant | Water Resistant | Scratch Resistant | UV Stable Indoor Use | Tactile |

Product Characteristics

Attribute	Description
Product Category	MDF
Substrate Type	-
Thickness (*nominal*)	18mm, 25mm, 32mm
Weight (*Kg/m2 approx.*)	15.0, 20.0, 25.0
Decorative Surfaces	Double Sided (D/S)
Core	High Density MDF (18mm) MDF (25, 32mm)
Finish	Natural, Flint, Nuance & Chalk
Colour/Pattern/Size	To view the full range, please visit www.laminex.com.au for the National Availability Guide

Surface Quality (Tested to AS/NZS 1859.3:2017)

Attribute	Minimum Values
Inspection Guidelines	Viewing distance 0.75 to 1.5m from laminate surface Light intensity approximately 800 to 1000 lx at the laminate surface Overhead white fluorescent lights, of colour temperature approximately 5000K
Dirt, Spots & Similar Surface Defects	The admissible size of defects is based on a maximum contamination area equivalent to 1.0mm^2/m^2 and is proportional to the sheet size under inspection The total admissible area of contamination may be concentrated in one spot or dispersed over an unlimited amount of smaller defects

Surface Quality (Tested to AS/NZS 1859.3:2017)

Attribute	Minimum Values
Fibres, Hairs & Scratches	The admissible size of defects is based on a maximum contamination length equivalent to 10mm/m^2 and is proportional to the sheet size under inspection. The total admissible length of contamination may be concentrated in one defect or dispersed over an unlimited amount of smaller defects.
Faults	Faults not permitted include faults showing through from the substrate to the surface and air bubbles, blisters, craters or faults in the decorative layer.
Imperfections	Imperfections and sawing defects are permitted within the over trim margin

Typical Surface Performance of Natural, Nuance & Chalk Finishes (Tested to AS/NZS 1859.2)

Attribute		Unit	Thickness	
			13mm-22mm	23mm-33mm
Thickness Tolerance		mm	mm +/-0.3	mm +/-0.3
Density		kg/m^3	730	720
Internal Bond		MPa	0.60	0.50
Modulus of Rupture		MPa	34.5	31.0
Modulus of Elasticity		MPa	3400	3400
Surface Soundness		MPa	1.2	1.4
Screw Holding, Face		N	800	800
Screw Holding, Edge		N	1000	1000
Thickness Swell (24hr)		%	<6	<6
Resistance to Wear	Solid Colours	Cycles	>300	>300
	Prints & Woodgrains		>40	>40

Emissions & Environmental Performance

Attribute	Tested to	Unit	Minimum Values
Formaldehyde	AS/NZS 4266.1:2017, Section 17	mg/L	< 0.5
Volatile Organic Compounds (VOC's)	ASTM D5116	mg/m^2/h	≤ 0.5

Typical Properties (Typical Values)

Attribute	Tested to	Unit	Requirement
Fire hazard indices		Range	
Ignitability	AS/NZS 1530.3	0-20	14
Spread of flame		0-10	8
Heat Evolved		0-10	7
Smoke Developed		0-10	4
Cone Calorimeter			
Group number	AS/NZS 3837	1-3	3
Extinction area		m^2/kg	90.1

Warranty Document	To view the latest Warranty Document for this product, please visit www.laminex.com.au.
Care & Maintenance Document	To view the latest Care & Maintenance Document for this product, please visit www.laminex.com.au.
Safety Data Sheet	To view the latest Safety Data Sheet for this product, please visit www.laminex.com.au.

A slight variation exists between the finishes on Laminex melamine faced board products (Lamiwood MR, Decorwood, Vertiboard, Vertiboard MR, Structural and Contour Doors) and the Laminex high-pressure laminate products.

GreenTagCert™ Certification

Global GreenTag is a Product Sustainability Certification, Product Health & Environmental Product Declaration Program Operator relevant to all of the major green building rating tools in the world including;

- LEED® (167+ countries)
- International WELL™ Building Standard (60+ countries)
- Green Star® Australia, New Zealand and Africa (56+ countries)
- Green Globes® (21+ countries)
- BREEAM® & BREEAM® International (78+ countries)
- EarthCheck® (70+ countries)
- LOTUS
- Infrastructure Sustainability 'IS' Tool

Timber Certification

As one of Australia's largest manufacturers of wood products, Laminex supports responsible forest management and is committed to producing quality products from quality materials that are backed by globally recognised certifications. We source our raw materials from suppliers who have been independently verified as compliant to chain of custody standards, meaning that materials are produced using wood fibres sourced from certified sustainably managed forests to Responsible Wood/PEFC (Programme for the Endorsement of Forest Certification) Certifications.

Our manufacturing facilities hold their own PEFC certifications. This means all certified wood products from these facilities can be traced from plantation to final manufactured product.

Sustainable Manufacturing Initiatives

Laminex Australia also maintains ISO 14001 Environmental Management System certification for all manufacturing sites and is progressively embarking on a number of waste and emission reduction initiatives to reduce our overall environmental impact.

Protec+® | Antimicrobial Technology Refer to the Protec+ fact sheet available from laminex.com.au