

NAVURBAN™ MR MDF



Navurban™ MR MDF is a moisture resistant medium density fibreboard, E0 substrate bonded with a non PVC olefin decorative surface film.

Applications

Designed for interior applications, Navurban™ is ideal for use in kitchen, bathroom and laundry cabinetry, doors, wall paneling, furniture, reception desks and commercial joinery.

Navurban's™ embossed, matt finish is available in a range of fine or smooth woodgrain finishes.

Substrate Properties

Typical physical properties when tested to AS/NZS 1859.2

Property	Thickness		
	Unit	18mm	25-33mm
Density	kg/m ³	730	710
Internal Bond	Mpa	0.90	0.70
Modulus of Rupture (MOR)	Mpa	43.0	38.5
Modulus of Elasticity (MOE)	Mpa	3600	3400
Screw Holding Edge	N	1600	1600
Screw Holding Face	N	1000	1000
Thickness Swell (24hr)	%	<4	<4

Emissions Test

Tested for organic emissions to ASTM D5116.

Result: Total VOC emission rate <0.005mg/m²/hr Formaldehyde emission rate 0.017mg/m²/hr

Resistance to Wear

Tested for abrasion resistance to AS 15080 Method 403.2. Result: Average mass loss = 24mg

UV Test Resistance

Tested for exposure in indoor applications to ASTM D4459. Result: Not adversely affected after 1000 hours.

Light Reflectance Value (LRV)

Tested to AS 1428.1. Results available on request.

Sheet Sizes, Thicknesses & Finishes

For sheet sizes, thicknesses, edging and surface finish options, refer Navurban™ Availability Chart.

Fire Tests

MR MDF tested to AS/NZS 1530.3. Results typically achieved:

Indices	Result	Range
Ignitability	14	0-20
Spread of Flame	8	0-10
Heat Evolved	7	0-10
Smoke Developed	4	0-10

Navurban™ Fire Rated (FR) is available on request, to achieve a Group 2 Fire Rating. Tested for smoke and heat release rates to AS/NZS 5637. Result: Group 2.

Observations

The test sample smoked shortly after being exposed to the radiant heat and each sample ignited in approximately 90 seconds from the start of the test and continued for the duration of the test. The samples had an average heat release rate of 55.8 kW/m² and effective heat of combustion of 7.77 MJ/kg.

Test Results

The following sample classifications were obtained:

Group Number: Group 2

(In accordance with Specification A2.4 of the Building Code of Australia.)

Average specific extinction area: 4.98 m²/kg

(Refer to Specification C1.10 section 4(b) of the Building Code of Australia.)

Certification

Navurban™ MR MDF is manufactured with an E0, low VOC substrate and is Ecospecifier Global GreenTag™ certified to level B. Navurban™ MR MDF has also achieved Australian Forestry Standard Programme for Endorsement of Forest Certification Schemes (AFS/PEFC) Chain of Custody (CoC). Timber is sourced from sustainably managed forests. Navurban™ MR MDF can contribute to Green Star® points.

