

NAVURBAN ELEMENTS™

NAVURBAN ELEMENTS™ has been created using Japanese non-PVC Olefin surface technology and 3D-embossing. It's surface finish offers scratch and abrasion resistance, as well as being UV, stain and water resistant, offering savings in fabrication costs and ease of installation.

Applications

Designed for interior applications, NAVURBAN ELEMENTS™ is ideal for use in kitchen, wardrobes, media units, reception desks and commercial joinery.

MR MDF 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.

MR MDF Result: Total VOC emission rate <0.005mg/m²/hr

Formaldehyde emission rate 0.017mg/m²/hr

Film Result: Total VOC emission rate 0.015mg/m²/hr

Formaldehyde emission rate <0.032mg/m²/hr

Resistance to Wear

Tested for resistance to scratching to AS 2924.2-1998

Result: Wear Resistance = 1650 Revolutions

Tested for scratch resistance to AS 2924.2-1998.

Result: Indent light mark = 0.75(kgf)

Stain Resistance

NAVURBAN ELEMENTS™ is tested in accordance with AS/NZS 2924-1998.

Results typically achieved:

Staining Agent	Rating
100% Acetone	5
Black Coffee	5
25% Sodium Hydroxide	5
30% Hydrogen Peroxide	5
Black Shoe Polish	5
10% Citric Acid	5
Spray and Wipe	5
Windex	5

UV Test Resistance

Tested for exposure in indoor applications to ASTM D4459. Result: Not adversely affected after 2000 hours.

Light Reflectance Value (LRV)

All decors have been tested individually to AS 1428.1 and reports available on request.

Sheet Sizes, Thicknesses & Finishes

For sheet sizes, thicknesses, edging and surface finish options, refer to the NAVURBAN ELEMENTS™ Specification Data, Availability & Pricing document.

Fire Tests

Comprehensive results available on request.

NAVURBAN ELEMENTS™ MR MDF is tested in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release. Alternate substrates are available upon request.

Results typically achieved:

Indices	Unit	Test 1	Test 2	Test 3	
Time to sustained flame	Sec	32	30	37	33
Average heat release rate	kW/m ²	38.8	46.2	41.5	42.2
Mass Loss	kg/m ²	12.8	12.8	12.9	12.8

The following sample classifications were obtained:

Group Number Assessment in accordance with AS 5637.1-2015

Group Number = Group 3

Average specific extinction area = 4.4 m²/kg

PEFC Certification

All NAVURBAN ELEMENTS™ products are PEFC (program for endorsement of forest certification) certified providing reassurance that our product is sourced responsibly and sustainably.

Global Greentag™

NAVURBAN ELEMENTS™ MR MDF is manufactured with an E0, low VOC substrate and is Ecospecifier Global GreenTag™ certified to level B. NAVURBAN ELEMENTS™ MR MDF can contribute to Green Star® points.

Disclaimer

This technical data sheet is provided by New Age Veneers as a general guideline. It is the responsibility of the installer to conduct appropriate testing and ensure suitability of materials and methods for each specific application.