

NAVURBAN DIAMOND™

NAVURBAN DIAMOND™ is an engineered timber look product created using Japanese non-PVC Olefin surface technology and 3D-embossing. It's additional layer of UV cured resin provides enhanced scratch and abrasion resistance, as well as UV and stain protection.

Applications

Designed for interior applications, NAVURBAN DIAMOND™ is ideal for use in kitchen, bathroom and laundry cabinetry, doors, wall paneling, furniture, reception desks and commercial joinery. NAVURBAN DIAMOND'S™ embossed, matt finish is available in a range of fine or smooth woodgrain finishes.

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 0.014mg/m²/hr
Formaldehyde emission rate <0.007mg/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: when scratched across grain indent light mark = 0.75(kgf)
Result: when scratched with grain indent light mark = 1.50(kgf)

Stain Resistance

NAVURBAN DIAMOND™ 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 DIAMOND™ Specification Data, Availability & Pricing document.

Fire Tests

Comprehensive results available on request.

NAVURBAN DIAMOND™ 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	Mean
Time to sustained flame	Sec	36	33	34	34
Average heat release rate	kW/m ²	59.0	62.5	60.9	60.8
Mass Loss	kg/m ²	14.2	14.2	14.8	14.4

The following sample classifications were obtained:
Group Number Assessment in accordance with AS 5637.1-2015
Group Number = Group 3
Average specific extinction area = 42.0 m²/kg

PEFC Certification

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

Global Greentag™

NAVURBAN DIAMOND™ MR MDF is manufactured with an E0, low VOC substrate and is Ecospecifier Global GreenTag™ certified to level B. Navurban DIAMOND™ 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.