

NAVCORE™

NAVCORE™ is a lightweight substrate that may be finished with NAVURBAN™, NAVURBAN DIAMOND™ Finish decorative surface films, SHINNOKI® by NAV™ and NAVENEER™. This lightweight board has a solid core that provides additional fixing strength. The solid core allows cut-outs to be created within the panel, for decorative effects. NAVCORE™ is manufactured with a falcata block board core and 2.5mm EO MDF skins.

Applications

Designed for interior use, NAVCORE™ is ideal for ceiling fins, screens, floating shelving and non-structural residential or commercial applications that require a lightweight construction material with a decorative finish.

Combine NAVCORE™ with the NAVURBAN™ embossed, low gloss finish in a range of fine, medium or heavily structured woodgrains or with SHINNOKI® by NAV™ and NAVENEER™, to achieve the texture of solid timber.

Sheet Sizes, Thicknesses & Finishes

NAVCORE™ is available in a 2980mm x 1225mm sheet size, in 38mm & 50mm thicknesses.

Substrate Properties

Tested for performance of block board products.

Product Comparison	Test Method	Result
Solid Core Falcata Block Board		VOC Free
2.5mm EO MDF Skins	JIS 5905	F4****
Water-based Glue	JAIA 404241	VOC Free
EVA Emulsion	JAIA 008383	F4***

Mechanical Properties				
Typical Properties for NAVCORE™		Unit		
Thickness		mm	38	50
Dimensional Accuracy				
Thickness Tolerance		mm	-0.5mm >< +10mm	
Width Tolerance		mm	Falcata ± 5.0mm, MDF ± 3.0mm	
Length Tolerance		mm	Falcata ± 5.0mm, MDF ± 3.0mm	
Moisture Content		%	<15%	
Weight		kg/m ²	13.1	17.8
Density	JIS A 5905:2003	g/cm ³	0.41	0.31
Swelling in Thickness after immersion in water		%	3.80	3.57
Bending Strength	0°	N/mm ²	15.5	7.6
	90°	N/mm ²	5.8	6.0
Formaldehyde		mg/L	0.3	0.3
Fire Tests	AS/NZS		Group 3: Average Specific extinction area = 78.5m ² /kg	

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.

Fire Tests

NAVCORE™ is tested in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release.

Additional information is available upon request.

Results typically achieved:

Indices	Unit	Test 1	Test 2	Test 3	
Time to sustained flame	Sec	48	44	46	46
Average heat release rate	kW/m ²	54.6	59.2	52.9	55.5
Mass Loss	kg/m ²	13.2	13.3	13.8	13.4

The following sample classifications were obtained:

Group Number Assessment in accordance with AS 5637.1-2015

Group Number = Group 3

Average specific extinction area = 78.5m²/kg

Certification

NAVCORE™ complies with V-legal Wood exportation guidelines.