



Navcore™ Technical Data Sheet

Navcore™ is a lightweight substrate that may be finished with Navurban™ decorative surface films, Navlam Sandblasted™ and Enviroven™ reconstructed veneers or a polyurethane paint coating. 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 E0 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 Navurban's™ embossed, low gloss finish in a range of fine, medium or heavily structured woodgrains or with Navlam and Enviroven™ veneers, to achieve the texture of solid timber.

Sheet Sizes & Thicknesses

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

Substrate Properties

Tested for performance of block board products.



Certification

Navcore™ is manufactured with an E0, low VOC substrate. It is tested to Japanese Standard JIS A 5905:2003 for formaldehyde emissions and achieves an F4**** rating.

Product Composition	Test Method	Result
Solid Core Falcata Block Board		VOC Free
2.5mm E0 MDF Skins	JIS A 5905	F4****
Water-based Glue EVA Emulsion	JAIA 404241	VOC Free
	JAIA 008383	F4****

Mechanical Properties					
Typical Properties for Navcore™		Unit			
Thickness		mm	38		50
Dimensional Accuracy:					
Thickness Tolerance		mm	-0.5mm > < +1.0mm		
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 3837		Group: 3 Average specific extinction area = 288.1m ² /kg		