NAVCORE™

NAV
DESIGNER SURFACES

Navcore™ is a lightweight substrate that may be finished with Navurban Diamond™ Finish decorative surface films, Navlam Sandblasted™ and Enviroven™ reconstructed veneers. 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 Navurban's™ Diamond Finish 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 EO, low VOC substrate. It is tested to Japanese Standard JIS A 5905:2003 for formaldehyde emissions and achieves an F4**** rating.

Product Comparison	Test Method	Result
Solid Core Falcata Block Board		VOC Free
2.5mm E0 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 = 2881m^2/kg	

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