

Naxan Decking + Cladding

Technical Data Sheet



No.	Property	Test Description	Result	
1.	Density	ISO 1183	1.43gm/m ³	
2.	Hardness	ASTM D2240 Shore D Hardness Test	88 Shore D	
3.	Hardness	BS 373J Janka Hardness Test	13.07 kN	
4.	Flexural Strength	ASTM D790-03 Determination of Flexural Strength (Profile: 140 x 38mm)	28.24 MPa	
		ISO 178 Determination of Flexural Properties – Flexural Strength	46.0 MPa	
		ISO 178 Determination of Flexural Properties – Flexural Modulus	3850 MPa	
		ISO 178 Determination of Flexural Properties – Flexural Strength at Break	2.5%	
5.	Compressive Strength	ASTM D695-08 (Profile: 140 x 38mm)	39.4 MPa	
6.	Shear Strength	STMS – 22774 (Profile: 140 x 38mm)	12.82 MPa	
7.	End Bearing Test	(Profile: 140x 38mm)	12.49 MPa	
8.	Nail Pull Off Test	STMS – 2775 (Profile: 140 x 38mm)	6009 N	
9.	Slip Resistance	ASTM – C1028-7 Static Co-efficient of Friction a. Wet Condition b. Dry Condition	0.78 kgf 0.89 kgf	
		ASTM E303:1993 (2008) Skid Resistance a. Non-coated Vertical b. Non-coated Horizontal c. Coated Vertical d. Coated Horizontal	55 units 71 units 52 units 47 units	
		AS 4586:2013 Appendix A Wet Pendulum Test Slider 55	P5	
		AS 4586:2013 Appendix A Wet Pendulum Test Slider 96	P5	
10.		Resistance to Fungus/ Biodegradation	DINV ENV 12038:2002 – Method of test for determining resistance against wood destroying basidiomycetes	No attack by fungi, highest durability Class 1
			CENT/TS 15083-2 – Determination of durability against rot fungi Class 1	No attack by fungi, highest durability
	ASTM D3273 – Resistance against mould and discolouring and discolouring		Rating 1 – Resistant to infection of mould	
11.	Fire rating	DIN 4102 – 1 (May 1988) Flammability (Building Material Class 1)	Class B1	

	DIN EN 1350-1:2007 Fire Classification of Construction Products and Elements – Part 1	Class E
	ASTM E84-09 – Surface Burning Characteristics of Burning Materials	Class A
	BS 476 Part 6:1989 + A1:2009 Fire Propagation Test Sub Index 1 Sub Index 2 Sub Index 3 Fire Propagation Index 1	1.01 0.89 0.47 2.37
	BS 476 Part 7: 1997 – Fire Classification	Class 1
	Building Regulation 2006 Approved Document B, UK Requirements: Propagation Index 1 <12 Sub Index <6	Class 0
	ASTM E84-09 Surface Burning Characteristic of Building Materials (CP140)	Class A
	AS 1530.8.1 – 2007 Bushfire Attack Level (Profile: 140 x 25mm Decking)	BAL-40
	AS 1530.8.1 – 2007 Bushfire Attack Level (Profile: 95 x 13mm Cladding)	BAL-40
12. Minimum Ignition Energy (MIE) Determination of MIE	a. ARF Raw Material b. Resysta Compound c. Sanding Dust	BS EN 13821: 2001 – 30 mJ to 100 mJ >1000 mJ >1000 mJ
13. Chemical Analysis	RoHS Compliance Test a. Cd (<100 ppm) b. Lead (<1000 ppm) c. Mercury (<1000 ppm) d. Hexavalent Chromium Cr +6	Not detected
	Substance of Very High Concern (SVHC) Compliance – 53 substances <0.1% (REACH)	All not detectable
14. Accelerated Weathering	Xenon Arc Accelerated Weathering Test – QUV a. 500, 1000, 1200, 1500 hours b. 2000 hours	No obvious Change Very Slight Change
15. Tensile Properties	ISO 527 – Maximum Tensile Strength ISO 527 – Elongation at Break ISO 527 – Tensile Modulus	21.8 MPa 2.2% 2,340 MPa
16. Impact Properties	ISO 180 – Izod Impact Strength a. Notched, ISO 180/1eA b. Un-Notched ISO 180/1eU	2.65 kj/m2 5.99 kj/m2
17. Thermal Expansion Co-efficient	ISO 11359 – Linear Thermal Expansion Co- efficient a. -20°C to + 20°C b. +30°C to + 70°C	0.425 mm/m/10°C 0.732 mm/m/10°C
18. Heat Deflection	ISO 75 – Heat Deflection Temperature	62°C
19. Water Absorption	ISO 62 – Water Absorption a. 6 hours b. 32 hours c. 124 hours	0.73% 1.12% 1.85%

Note: Please note that the test details and results in this document were determined in laboratory conditions using standard test specimens. The information contained in this document is intended to be used for general reference only and not for specification purposes. Please consult the building professionals responsible for the project on the suitability of the material for its final application.