TECHNICAL SHEET

NO.	TEST METHOD	TEST DESCRIPTION	TEST VALUE
1	**ASTM D7032-17 Section 4.2 &**	Flexural strength and Modulus of elasticity	Flexural Strength : 27.4MPa
	ASTM D6109-13 Method A	DKG5.5/1 (Platinum Decking)	Modulus of Elasticity: 4192MPa
2	**ASTM D1761-20**	Screw withdrawal test	5510N
3	**ASTM E831-25**	Mean coefficient of linear thermal expansion	-30°C ~ 30°C: 41.9μm/(m.°C)
			30°C ~ 70°C: 46.5μm/(m.°C)
4	**ASTM D2395-17 Method B mode (III)**	Specific gravity	1.532
5	**ISO 62:2008 Method 1**	Water absorption	6h : 2.03%
			32h : 3.00%
			124h : 4.05%
6	**ASTM D648-18 Method B**	Deflection temperature under load	71.1°C
7	**ASTM E84-23d**	Standard Test Method for Surface Burning Characteristics of Building Materials - (B)	Flame Spread Index (FSI): 0
			Smoke-Developed Index: 400
			Class A Interior Wall & Ceiling Finish Category (FSI: 0-25, SDI 0-450)
8	**BS 476-4:1970+CORR-2014**	Fire test on building materials and structures-Part 4: Non-combustibility test for materials.	Flame continuance(s)
			Specimen 1: 911
			Specimen 2: 892
			Specimen 3: 953
9	**BS 476 Part 6:1989 + A1:2009 + C1:2014**	Fire test on building materials and structures Part 6.	Fire propagation index, I: 6.7
10	**BS 476 Part 7:1997**	Incorporating Corrigendum No.1: 2014 Fire tests on building materials and structures Part 7	Class 1
11	**CAN/ULC-S102.2:2018+R1:2019**	Standard method of test for surface burning characteristics of flooring, floor coverings, and miscellaneous and assemblies.	FSR: 15
			SDC: 265
12	**ASTM D2240: Shore D**	Hardness test of recycled plastic battens	Average: 88
13	**ASTM E303-1993(2008)**	Determination of Surface Frictional Properties Using British Pendulum Skid Resistance Tester	Mean BPN
			Parallel to Groove: 55
			Perpendicular to Groove: 71
14	**ASTM D3345-17 and AWPA E1-17**	Termite test. Durability of EFC (Enhance Fiber Composite) samples against subterranean termites	EFC (Enhance Fiber Composite) sample blocks suffered slight attach up to 3% of cross-sectional area.
15	**CEN/TS 15083-2**	Durability of wood and wood-based products - Determination of the natural durability of solid wood against wood-destroying fungi, test methods - Part 2: Soft rotting micro-fungi	Very durable against soft rot fungi

16	**ASTM C518-21**	Thermal conductivity and thermal resistance	Thermal Conductivity: 0.161 W/(m.K)
			Thermal Resistance: 0.250 h.ft².°F/BTU
17	**ASTM D1525**	Vicat softening temperature analysis	Standard: 92.0°C
18	**ASTM D143-23 Section 12 and client's requirement**	Compression perpendicular to grain	Compressive stress at 10% deformation: 42.3MPa
19	**ASTM D143-23 Section 14 and client's requirement**	Shear strength (Perpendicular to the L direction)	12175N
20	**ASTM D143-23 Section 14 and client's requirement**	Shear strength (Parallel to the L direction)	12363N
21	**ASTM D2394-17 (2022) Section 33-37**	Coefficient of friction	a) Static coefficient of friction
			X direction: 0.79
			Y direction: 0.82
			b) Sliding coefficient of friction
			X direction: 0.67
			Y direction: 0.72
22	**ASTM D198-15 Section 21-28 and client's requirement)**	Compression(parallel to grain)	Compressive strength: 57.5MPa
23	**ASTM D198-15 Section 29-36 and client's requirement**	Tensile strength	19.9MPa
24	**ASTM D2047-17**	Standard test method for static coefficient of friction of polish-coated flooring surfaces as measured by the James machine	**Dry Condition**
			Leather test shoe: 0.54
			Neolite test shoe: 0.52
			Rubber test shoe: 0.79
			Wet Condition
			Leather test shoe: 0.77
			Neolite test shoe: 0.72
			Rubber test shoe: 0.94

Tested 2026

***Data is for reference only.** Consult with your NOVANO Sales Representative for project specific applications*

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