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Material Specification

No.	Test Item(s)		Test Method(s)	Test Result(s)
1	Flexural Strength		ASTM D7031–11 Section 5.5 & ASTM D6109–13 method A	26.3 MPa
	Modulus of Elasticity			3833 Mpa
2	Screw withdrawal test		ASTM D7032–17 Section 5.5 & &ASTM D1761–12	3353 N
3	Nail withdrawal test			408 N
4	Compression Parallel to Grain		ASTM D198–17 Section 13~Section 20	28.3 MPa
5	Compression Perpendicular to Grain		Refer to ASTM D198–17 Section 13~Section 20	21.6 MPa
6	Impact Resistance		ASTM D4495–16	>133 J note 2
7	Deflection Temperature under Load		ASTM D648–16 Method B	65.4 °C
8	Specific Gravity		ASTM D7031–11 Section 5.14 & ASTM D792–13 Method A	1.31
9	Moisture Content		ASTM D7031–11 Section 5.15 & ASTM D4442–16 Method B	0.20%
10	Shear Strength		ASTM D732–17	14.0MPa
11	Shore Hardness		ASTM D2240–15	D/70/1 note 5
12	Tensile Strength		ASTM D638–14	9.91MPa
13	Water Absorption(24h)		Refer to GB/T 17657–0213 Section 4.6	0.37% note 6
14	Soluble heavy metal	Pb	ASTM F 963–16(Clause 8.3)	ND
		Sb		
		As		
		Cd		
		Cr		
		Hg		
		Se		
15	Appearance		EN 15534–4:2014 Section 4.3 EN 15534–1:2014 Section 6.1	No crack, blister and other visible defects.

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No.	Test Item(s)	Test Method(s)	Test Result(s)
16	Slipperiness (Dynamic coefficient of friction)	EN 15534–4:2014 Section 4.4 EN 15534–1:2014 Section 6.4.4 EN 13893:2002	Longitudinal direction: Mean: 0.43 Min.: 0.43 Horizontal direction: Mean: 0.51 Min.: 0.50
17	Dimensions	EN 15534–4:2014 Section 4.4 EN 15534–1:2014 Section 6.6.4	Max. Cupping: 0.23 mm
18	Resistance to artificial weathering	EN 15534–4:2014 Section 4.5.5 EN 15534–1:2014 Section 8.1 ISO 4892–2:2013, cycle 1	After 300h exposure: ΔL*= –0.68 Δa*= 0.57 Δb*= 1.04 ΔE*= 1.37 Grey Sale= 4
		ISO 4892–2:2013 cycle 1	After 720h exposure: ΔL*= –0.14 Δa*= 0.11 Δb*= 0.18 ΔE*= 0.26 Grey Sale= 5
			After 1440h exposure: ΔL*= –0.28 Δa*= 0.14 Δb*= 0.38 ΔE*= 0.50 Grey Sale= 4–5
			After 2000h exposure: ΔL*= –0.37 Δa*= 0.18 Δb*= 0.43 ΔE*=0.60 Grey Sale= 4–5
19	Swelling and water absorption (28 days immersion)	Section 4.5.5 EN 15534–1:2014 Section 8.3.1	Mean Swelling: 0.26 in thickness 0.05 in width 0.09 in length Max. Swelling: 0.39 in thickness 0.06 in width 0.14 in length Water absorption: Mean: 0.22 % Max.: 0.24 %
20	Linear thermal expansion coefficient (–20°C~80°C)	EN 15534–4:2014 Section 4.5.6 EN 15534–1:2014 Section 9.2 ISO 11359–2:1999	$40.1 \cdot 10^{-6}\ K^{-1}$

No.	Test Item(s)	Test Method(s)	Test Result(s)
21	Degree of chalking (Only for coated products)	EN 15534–4:2014 Section 4.5.7 EN 15534–1:2014 Section 10.1 ISO 4892–2:2013 cycle 1 ISO 4628–6:2011	After weathering test for 300 hours, there was no visual chalking on the surface.
22	Resistance to salt spray (NSS test)	EN 15534–4:2014 Section 4.5.7 EN 15534–1:2014 Section 8.6 EN ISO 9227:2017	Exposure time (h): 200 ΔL*= 0.03 Δa*= 0.08 Δb*= 0.03 ΔE*= 0.09 Grey Sale= 5
23	Fire Resistance	EN13501–1:2007+A1:2009 EN ISO 9239–1:2010 and .EN ISO 11925–2:2010+AC:2011	B_{fl}–s1
		EN 13823:2020 and EN ISO 11925–2:2020	B_{s1},d0
24	Impact resistance in normal temperature	GB/T 24508–2009 6.5.3 GB/T 18102–2007 6.3.16	8.57mm
25	Impact resistance in low temperature	GB/T 24508–2009 6.5.6	No break
26	Density	GB/T 24508–2009 6.5.4 GB/T 17657–1999 4.2	1.33 g/cm3
27	Cold and thermal cycling	GB/T 24508–2009 6.5.9	No cracking or bubbling Size change: –0.04mm
28	Formaldehyde	GB/T 24508–2009 6.5.21 GB 18580–2001 6.3	ND
29	Slip resistance	GB/T 24508–2009 Section 6.5.16	36
30	Colour fastness resistance	GB/T 24508–2009 Section 6.5.20 GB/T 15102–2006 Section 6.5.19	> Class 4
31	Bushfire attack level	AS 1530.8.1	BAL: AA29
32	Resistance to Corrosion	ISO 9227 NSS Method	There was no red rust or visual corrosion on the surface

No.	Test Item(s)	Test Method(s)	Test Result(s)
33	Resistance to indentation	EN 15534–1:2014 Section 7.5 EN 15534–4:2014 Section 4.5.7 EN 1534:2010	Brinell hardness: 79 MPa Rate of elastic recovery: 54%
34	Abrasion Resistance	ASTM D4060–14	Mass loss: 30.0 mg Wear index: 30
35	Moisture resistance under cyclic test conditions	EN 15534–4:2014 Section 4.5.5 EN 15534–1:2014 Section 8.3.2	Original Bending Strength: 29.1 MPa After exposure, Mean Bending Strength: 27.6 MPa Decrease: 5.2 % Min Bending Strength: 25.7 MPa Decrease: 11.7 %
36	Flexural properties	EN 15534–4:2014 Section 4.5.2 EN 15534–1:2014 Annex A.5.2	Bending Strength: 30.6 MPa Modulus of elasiticity: 3967 MPa Maximum load: Mean: 3374 N Min.: 2859 N Deflection at 500N: Mean: 2.02 mm Max.: 2.16 mm

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