

Test Method		Premier Composite Decking	Classic Composite Decking
Flexural Strength (MOR)	ASTM D7032-08, Section 4.4	21.7MPa	
Flexural Stiffness (MOE)	ASTM D7032-08, Section 4.4	2039MPa	
Fastener Holding(screw)	ASTM D7032-08, Section 5.5	1177N	
Slip Resistance	ASTM D7032-08, Section 5.6	Dry surface, ratio Static 0.11 Dynamic 0.04 Wet surface, ratio Static 0.06 Dynamic 0.05	
Coefficient of Linear Thermal Expansion	ASTM D696-08	9.8x10 ⁻⁵ 1/°C	
Fire Test	EN 13823:2020+A1:2022 and EN ISO 11925-2:2020	B-s3, d0	
Surface Hardness	ASTM D1037-06a, Section 17	9513N	
Creep Recovery	ASTM D7032-08, Section 5.4	81%	
Water Absorption	ASTM D570-98, Section 7.1	0.51%	
Density	ASTM D6111-08, Section 10	1.34g/cm ³	
UV Exposure	ASTM G154-06	After UV test (1000 hours) Gray scale 1	
Flexural Strength	ASTM D790-07	Before UV test 28.3 MPa After UV test (1000 hours) 27.9 MPa, decrease 1%	
Tensile Strength	ASTM D638-08	Before UV test 21.5 MPa After UV test (1000 hours) 20.0 MPa, decrease 7%	
Impact Strength	ASTM D256-06a	Before UV test 2.27 J/m After UV test (1000 hours) 2.19J/m, decrease 4%	
Vicat Softening Temperature	ASTM D1525-17	Average 92.3 VICAT(°C)	
Linear thermal expansion coefficient(-30°C~100°C)	ASTM E831-19	Average 42.0 um/(m·°C)	
Water Absorption and Thickness Swelling	ASTM D1037-12(2020) section 23, method A	2h submersion in water Water absorption(by weight):0.09 % Thickness swelling:0.10 % 24h submersion in water Water absorption(by weight):0.18 % Thickness swelling:0.36 %	
Flexural properties	ASTM D6109-19 Method A	Flexural strength (MOR):37.2 MPa Modulus of elasticity (MOE):4033 MPa	

[1] Mould rating standard: 0 — No mildew or discolouration on the surface

[2] Water absorption, %=(Mass after immersion-Mass before immersion)/Mass before immersion×100

[3] 1 ppm = 1 mg/kg = 0.0001%

* Please refer to our Terms & Conditions ("Certification & Performance of Products")

Test Method		Superior Composite Decking	Elite Composite Decking
Linear Mass	EN 15534- 1:2014+A1:2017 Section 6.5 EN 15534-4: 2014 Section 4.4	Mean,: 3130 g/m / Max,: 3131 g/m / Min,: 3129 g/m	
Slipperiness (Pendulum Test)	EN 15534 - 1:2014+A1:2017 Section 6.4.2 C EN /15676:2007 EN 15534-4: 2014 Section 4.4	Longitudinal Direction. Mean:89 Min:88 / Horizontal Direction. Mean:97 Min:96	
Falling Mass impact Resistance	EN 15534-1:2014+A1:2017 Section 7..2.1 EN 15534-4: 2014 Section 4.5.1	Max Crack Length - No Crack Max Residual Indentation 0.03mm	
Flexural Properties	EN 15534-1:2014 +A1:2017 Annex A	Bending Strength:21.8 MPa Maximum Load Mean 4500N Min 4000N Deflection 500N: Mean: 1.16 mm Max.: 1.30 mm	
Creep Behaviour	EN 15534-1:2014+A1:2017 Section 7.4.1 EN 15534-4: 2014 Section 4.5.3	Span: 300mm Mean ΔS: 3.78 mm Max. ΔS: 4.22 mm Mean ΔSr: 2.68 mm	
Fire Test	EN 13823:2020+A1:2022 and EN ISO 11925-2:2020	B-s3, d0	
Boiling Test	EN 15534- 1:2014+A1:2017 Section 8.3.3 EN 15534-4: 2014 Section 4.5.5	Water Absorption in Weight: Mean: 0.79% Max: 0.83%	
Length Swelling after Boiling Test	EN 15534- 1:2014+A1:2017 Section 8.3.3 EN 15534-4: 2014 Section 4.5.5	Mean: 0.23%	
Width Swelling after Boiling Test	EN 15534- 1:2014+A1:2017 Section 8.3.3 EN 15534-4: 2014 Section 4.5.5	Mean: 0.13%	
Thickness Swelling after Boiling Test	EN 15534- 1:2014+A1:2017 Section 8.3.3 EN 15534-4: 2014 Section 4.5.5	Mean: 1.52%	
Tensile Strength after Boiling Test	EN 319:1993	Mean: 3.6 N/mm ²	
Linear Thermal Expansion Coefficient	EN 15534- 1:2014+A1:2017 Section 9.2 EN 15534-4: 2014 Section 4.5.6	Mean: 48.3 ·10 ⁻⁶ K ⁻¹	
Resistance to Indentation	EN 15534- 1:2014+A1:2017 Section 7.5 EN 15534-4:2014 Section 4.5.7	Brinell Hardness: 49 MPa Rate of Elastic Recovery: 81%	
Tensile Strength	EN 319:1993	Mean: 4.5 N/mm ²	
Abrasion / Wear Resistance	ASTM D4060-14	Average Value, (mg): 64.9	
Density	ISO 1183-1:2012 Method A	1.198g/cm ³	
Flexural Strength	ISO 178:2010/Amd, 1:2013 Method A	28.6MPa	
Flexural Modulus	ISO 178:2010/Amd, 1:2013 Method A	2770MPa	
Izod Notched Impact Strength	ISO 180:2000/Amd, 2:2013	2.5kJ/m ² C(Complete break)	
Shore Hardness	ISO 7619-1:2010	63 Shore D	
Tensile Strength	ISO 527-1:2012 & ISO 527-2:2012	19.6MPa	
Water Absorption	ISO 62:2008 Method 1	0.61%	

Test Method	Superior Composite Decking	Elite Composite Decking
[1] Mould rating standard: 0 — No mildew or discolouration on the surface [2] Water absorption, %=(Mass after immersion-Mass before immersion)/Mass before immersion×100 [3] 1 ppm = 1 mg/kg = 0.0001% * Please refer to our Terms & Conditions ("Certification & Performance of Products")		

Test Method		Classic Sanded Cladding	Classic Woodgrain Cladding
Flexural Strength (MOR)	ASTM D7032-08, Section 4.4	21.7MPa	
Flexural Stiffness (MOE)	ASTM D7032-08, Section 4.4	2039MPa	
Fire Test	EN 13823:2020+A1:2022 and EN ISO 11925-2:2020	B-s3, d0	
Surface Hardness	ASTM D1037-06a, Section 17	9513N	
Density	ASTM D6111-08, Section 10	1.34g/cm ³	
UV Exposure	ASTM G154-06	After UV test (1000 hours) Gray scale 1	
Water Absorption and Thickness Swelling	ASTM D1037-12(2020) section 23, method A	2h submersion in water Water absorption(by weight):0.09 % Thickness swelling:0.10 % 24h submersion in water Water absorption(by weight):0.18 % Thickness swelling:0.36 %	

Test Method		Superior Composite Cladding	Elite Slatted Composite Cladding
Flexural properties	EN 15534-5:2014 Section 4.5.2 EN 15534-1:2014 Annex A	Bending Strength: 27.4 MPa Modulus of elasticity: 2868 MPa Maximum load: Mean: 4087 N Min.: 3839 N Deflection at 250N: Mean: 0.74 mm Max.: 0.79 mm	
Resistance to artificial weathering	EN 15534-5:2014 Section 4.5.4 EN 15534-1:2014 Section 8.1 EN ISO 4892- 2:2013, cycle 1	After 300h exposure: $\Delta L^* = -0.57$ $\Delta a^* = 0.22$ $\Delta b^* = 0.29$ $\Delta E^* = 0.69$ Grey Sale= 4-5	
Swelling and water absorption (28 days immersion)	EN 15534-5:2014 Section 4.5.4 EN 15534-1:2014 Section 8.3.1 EN 317:1993	Mean Swelling: 0.13% in thickness 0.01% in width 0.12% in length Max. Swelling: 0.19% in thickness 0.02% in width 0.15% in length Water absorption: Mean: 1.37 % Max.: 1.45 %	
Boiling Test	EN 15534-5:2014 Section 4.5.4 EN 15534-1:2014 Section 8.3.3	Water absorption in weight: Mean: 1.35 % Max.: 1.45 %	
Heat reversion	EN 15534-5:2014 Section 4.5.6 EN 15534-1:2014 Section 9.3 EN 479:2018	Test Temperature: 100°C Mean: -0.17 %	
Fire Test	EN 13823:2020+A1:2022 and EN ISO 11925-2:2020	B-s3, d0	C- s3, d0

Test Method		Superior Composite Cladding	Elite Slatted Composite Cladding
Density	EN 15534-1:2014+A1:2017 Section 6.2 ISO 1183-1:2019 Method A	1.328 g/cm3	
Length Swelling after Boiling Test	EN 15534- 1:2014+A1:2017 Section 8.3.3 EN 15534-4: 2014	Mean: 0.23%	
[1] Mould rating standard: 0 — No mildew or discolouration on the surface [2] Water absorption, %=(Mass after immersion-Mass before immersion)/Mass before immersion×100 [3] 1 ppm = 1 mg/kg = 0.0001% * Please refer to our Terms & Conditions ("Certification & Performance of Products")			