

Products Specifications

Num	Item	Standard	Product Scope	Result	Remarks	Application
1	REACH	(EC) NO. 1907/2006	All Models	Pass	Test Harmful Contents	Hazardous Substance Testing
2	Pendulum Test	EN15534-1:2014 and CEN/TS 15676:2007	Decking	Pass	Slip Resistance Test	Safety Performance
3	Moisture Resistance-Boiling Test	EN15534-1:2014	All Models	0.51% Pass		Durability
4	Abrasion Resistance	ASTM D4060-14	Decking	37.9mg/1000r		Durability
5	Resistanceto Artificial Weathering	EN15534-1:2014	All Models	4.5 Grade of colorfastness	2000h	Durability
6	Moisture Content	EN322.1993	All Models	0.89%		Durability -Waterproof
7	Falling Mass Impact Resistance	EN15534-1:2014	Decking	9mm	Residual Indentation	Mechanical Test
8	Bending Strength	EN15534-1:2014	All Models	26.8MPa		Mechanical Test
9	Modulus of Elasticity	EN15534-1:2014	All Models	3758MPa		Mechanical Test
10	Withdrwl Capacity of Fastners	EN13446:2002	All Models	4139N	Screw Surface Withdrawal Test	Mechanical Test
11	Withdrwl Capacity of Fastners	EN13446:2002	All Models	3370N	Screw Edge Withdrawal Test	Mechanical Test
12	Coefficient of Linear Thermal Expansion	ISO 11359-2:1999	All Models	66.75µm/m·°C		Material Performance
13	Deflection Temperature under Load	ISO 75:2013 & ISO 75-2:2013	All Models	80°C		Durability
14	Anti-Slip Property	DIN 51130-2014	Decking	R10		Safety Performance
15	Falling Mass Impact Resistance	EN15534-1:2014	Decking	0.16mm	Testing the Depth of Residual Indentation	Mechanical Test
16	Resistance to Indentation	EN15534-1:2014	Decking	Brinell Hardness: 65N/mm ² Rate of Elestic Recovery:77.7%		Durability
17	Rockwell Hardness	ASTM D785-08	Decking	83.3R	Surface Hardness	Durability
18	Coefficient of Linear Thermal Expansion	EN15534-1:2014	All Models	38.6		Material Performance
19	Flexural Strength test	ASTM D6109-19	Decking	28.89 Mpa	Pass	Mechanical Test
20	Flexural Strength test-modulus of elasticity:	ASTM D6109-19	Decking	4510 Mpa	Pass	Mechanical Test
21	Density	GB/T 24508-2009	All Models	1.35	Pass	Material Performance
22	Water Absorption Rate	GB/T 24508-2009	All Models	0.90%	Pass	Material Performance
23	Falling Ball Impact Test at Low Temperature	GB/T 24508-2009	All Models	-10°C No Crack	Pass	Mechanical Test

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24	Dimension Changing Ratio of Swelling after Immersion in Water	GB/T 24508-2009	All Models	<0.1	Pass	Material Performance
25	Dimension Changing Ratio after Heated	GB/T 24508-2009	All Models	0.20%	Pass	Material Performance
26	Thermal-Cold Cycling Resistance	GB/T 24508-2009	All Models	No Cracking No Bubble 0.2	Pass	Durability
27	Stain Resistance of Surface	GB/T 24508-2009	All Models	No Significant Change	Pass	Durability
28	Freeze-Thaw Resistance	GB/T 24508-2009	Decking	88%	Pass	Durability
29	Creep Recovery Ratio	GB/T 24508-2009	All Models	83%	Pass	Mechanical Test
30	Slip Resistance	GB/T 24508-2009	All Models	45	Pass	Safety Performance
31	Formaldehyde Emission	GB/T 24508-2009	All Models	E0-lowest level	Pass	Safety Performance
32	hazardous substance	RoHS Directive 2011/65/EU and (EU)2015/863	All Models	N.D	Pass	Safety Performance