



Composite Decking Performance Data Sheet

Num	Item	Standard	Product Scope	Result	Remarks	Application
1	REACH	(EC) NO. 1907/2006	All WPC	Pass	Test Harmful Contents	Hazardous Substance Testing
2	Pedestal Vertical Load Test	EN 12825:2001	Pedestal		Pedestal Loading Test	Mechanical Test
3	Fire Performance	EN 13501	All WPC	Bf1-S1		Fire-Proofing Test
4	Fire Performance	ASTM E84	All WPC	Class A - Top Level		Fire-Proofing Test
5	Pendulum Test	EN15534-1:2014 and CEN/TS 15676:2007	Suprotect	Pass	Slip Resistance Test	Safety Performance
6	Moisture Resistance-Boiling Test	EN15534-1:2014	Suprotect	Pass		Durability
7	Abrasion Resistance	ASTM D4060-14	Suprotect	37.9mg/1000r		Durability
8	Resistance to Artificial Weathering	EN15534-1:2014	Suprotect	4.5 Grade of colorfastness	2000h	Durability
9	Wind Resistance Test	/	Fence	Pass-No failiure or disengagement	9-Scale Wind Load	Safety Performance
10	Moisture Content	EN322.1993	All WPC	0.89%		Durability - Waterproof
11	Falling Mass Impact Resistance	EN15534-1:2014	Normal WPC	9mm	Residual Indentation	Mechanical Test
12	Bending Strength	EN15534-1:2014	All WPC	26.8MPa		Mechanical Test
13	Modulus of Elasticity	EN15534-1:2014	All WPC	3758MPa		Mechanical Test
14	Withdrwal Capacity of Fastners	EN13446:2002	All WPC	4139N	Screw Surface Withdrawal Test	Mechanical Test
15	Withdrwal Capacity of Fastners	EN13446:2002	All WPC	3370N	Screw Edge Withdrawal Test	Mechanical Test
16	Coefficient of Linear Thermal Expansion	ISO 11359-2:1999	All WPC	66.75µm/m · °C		Material Performance
17	Deflection Temperature under Load	ISO 75:2013 & ISO 75-2:2013	All WPC	80°C		Durability
18	Oxygen Index	ASTM D2863-13	Normal WPC	21.80%	Fire-Resistance	Fire-Proofing Test
19	Anti-Slip Property	DIN 51130-2014	Suprotect	R10		Safety Performance
20	Falling Mass Impact Resistance	EN15534-1:2014	Suprotect	0.16mm	Testing the Depth of Residual Indentation	Mechanical Test
21	Resistance to Indentation	EN15534-1:2014	Suprotect	Brinell Hardness: 65N/mm2 Rate of Elestic Recovery:77.7%		Durability
22	Rockwell Hardness	ASTM D785-08	Suprotect	83.3R	Surface Hardness	Durability
23	Coefficient of Linear Thermal Expansion	EN15534-1:2014	Hyper Wood	38.6		Material Performance
24	Bending Strength	EN15534-1:2014	Hyper Wood	46MPa		Mechanical Test
25	Modulus of Elasticity	EN15534-1:2014	Hyper Wood	4300MPa		Mechanical Test
26	Flexural Breaking Load	GB/T 24508-2009	All WPC	4091N	Pass	Mechanical Test
27	Falling Mass Impact Resistance	GB/T 24508-2009	All WPC	6-7mm	Pass	Mechanical Test
28	Density	GB/T 24508-2009	All WPC	1.22	Pass	Material Performance
29	Water Absorption Rate	GB/T 24508-2009	All WPC	0.90%	Pass	Material Performance
30	Falling Ball Impact Test at Low Temperature	GB/T 24508-2009	All WPC	-10°C No Crack	Pass	Mechanical Test
31	Dimension Changing Ratio of Swelling after Immersion in Water	GB/T 24508-2009	All WPC	<0.1	Pass	Material Performance
32	Dimension Changing Ratio ager Heated	GB/T 24508-2009	All WPC	0.20%	Pass	Material Performance
33	Thermal-Cold Cychliing Resistance	GB/T 24508-2009	All WPC	No Cracking, No Bubble, 0.2	Pass	Durability
34	Stain Resistance of Surface	GB/T 24508-2009	All WPC	No Significant Change	Pass	Durability
35	Free-Thaw Resistance	GB/T 24508-2009	All WPC	94%	Pass	Durability
36	Creep Recovery Ratio	GB/T 24508-2009	All WPC	83%	Pass	Mechanical Test
37	Slip Resistance	GB/T 24508-2009	All WPC	45	Pass	Safety Performance
38	Formaldehyde Emission	GB/T 24508-2009	All WPC	E0-lowest level	Pass	Safety Performance
39	Dissoluble Lead	GB/T 24508-2009	All WPC	<0.5	Pass	Safety Performance
40	Dissoluble Cadmium	GB/T 24508-2009	All WPC	<0.5	Pass	Safety Performance