


# Tech Data Sheet - Coastal Decking US54

Model	Photo	Dimension
US54		210 x 22.5 mm H59 Pattern

NO.	Property	Test Method	Test results	Remark
1	Brinell hardness	EN15534	8.2N/mm <sup>2</sup>	
2	Boiling test	EN15534	Water absorption in weight: 0.49%	
3	Bond Strength	EN319	Average Bond Strength>2.3MPa No obvious abruption and damage after test	
4	Coefficient Linear Thermal Expansion	ASTM D696	35.6×10 <sup>-6</sup> mm/mm°C	
		EN15534	34.0×10 <sup>-6</sup> K <sup>-1</sup>	
5	Content of pentachlorophenol	CE ( EN14041(2004) )	2.99ppm	
6	Creep Recovery	ASTM D7032	Creep Recovery after 24h: 82.2%	
7	Degree of chalking	EN15534	Rating 0, no chalking.	
8	Fire Resistance	ASTM E84	Flame Spread Index (FSI): 85 Smoke Developed Index (SDI): 300	
9	Falling mass impact resistance	EN15534	Max Crack length(mm): No crack. Max Residual Indentation(mm): 0.14	
10	Formaldehyde Content	EN717-1	Non-Detected	
		ASTM D6007-14	Non-Detected	

NO.	Property	Test Method	Test results	Remark
11	Flexural properties	ASTM D6109	MOR: 22.7MPa, MOE: 3283.6MPa	Span:400mm
		ICC-ES AC174	Load at rupture: 6997N Flexural strength: 25.0MPa Flexural stiffness: 2616MPa	Span:400mm
12	Heavy Metal Content	EPA3051	Sb:ND, As:ND, Se:ND, Sn:ND	
13	Heat reversion	EN15534 EN479	Test temperature: 100°C :0.20%	
14	Heat build-up	EN15534	$\Delta T = -3.1^{\circ}\text{C}$	
15	Impact Resistance	ASTM D4226	MFE>396J	
16	Lead Content Test	EUNo.628/2015	Non-Detected	
17	Mould resistance	ASTM G21	Rating 0	
18	Moisture Content	EN15534 EN322	0.83%	
19	Neutral salt spray test	ASTM B117-2011	After 200 hours tests, there was no visible change appeared on the surface: Front surface: $\Delta E^* = 1.22$ , Grey Scale: 4-5 Back surface: $\Delta E^* = 1.06$ , Grey Scale: 4-5	
		EN15534 ISO9227	$\Delta E^* = 1.42$ , Grey Scale=4 (Exposure 96h)	
20	Pb, Cd, Hg, Cr <sup>6+</sup>	RoHs-IEC62321	Pb:ND, Cd:ND, Hg:ND, Cr <sup>6+</sup> :ND	
21	Resistance to scratch test	ISO4586-2	Rate 2	
22	Resistance to artificial weathering	EN15534 ISO4892-2	After 2000h exposure $\Delta E^* = 1.09$ , Grey Scale=4-5	
23	Rockwell Hardness	ASTM D785	78.7R	
24	Slip Resistance	UNE-EN12633	Class3	
		AS/NZS 4586	Wet Pendulum Testing: Classification: P2	

NO.	Property	Test Method	Test results	Remark
25	Swelling and water absorption (24hours immersion)	EN15534	① Swelling: 0.06% in thickness, 0.03% in width, 0.03% in length. ② Water absorption: 0.49%	
26	Swelling and water absorption (28days immersion)	EN15534	① Swelling: 0.67% in thickness, 0.04% in width, 0.07% in length. ② Water absorption: 0.27%	
27	SRI Testing	ASTM C1549 ASTM C1371 ASTM E1980	19	
28	Surface Bond quality	EN319	>2.08MPa	
29	Thermal Resistance	ASTM C518-2010	Thermal conductivity: 0.1589W/(m K) Thermal resistance: 0.0830(m <sup>2</sup> K)/W	
30	Thermal conductivity	CE ( EN14041(2004) )	0.19738W/m K	
31	UV Weathering test	ASTM G154	After 3000 hours test, Grey Scale3, $\Delta E^*=3.56$	
32	Uplift Resistance	ICC-ES AC174 ASTM E330	Average ultimate load $\geq 430$ psf	
33	VOC&TVOC	ASTM D5116-11	Non-Detected	
34	Water absorption	ASTM D1037	Water absorption(24h): 0.12%	

Pattern H59 photo

