

Terrace Decking Technical Sheet

Model	Photo	Dimension
US49C Finish: Y37		138×25 mm
US49C Finish: Y82		138×25 mm

NO.	Property	Test Method	Test results	Remark
1	Abrasion resistance	ASTM D4060	28.4mg(1000cycles)	
2	Brinell hardness	EN15534	8.2N/mm ²	
3	Boiling test	EN15534	Water absorption in weight: 0.46%	
4	Bond Strength	EN319	Average Bond Strength>2.3MPa No obvious abruption and damage after test	
5	Coefficient Linear Thermal Expansion	ASTM D696	35.6×10 ⁻⁶ mm/mm °C	
		EN15534	34.0×10 ⁻⁶ K ⁻¹	
6	Content of pentachlorophenol	EN14041	Non Detected	
7	Degree of chalking	EN15534	Rating 0, no chalking	

NO.	Property	Test Method	Test results	Remark
8	Falling mass impact resistance	EN15534	Max Crack length(mm): No crack. Max Residual Indentation(mm): 0.14	
9	Formaldehyde Content	EN717-1	Non Detected	
		ASTM D6007	Non Detected	
10	Fire Resistance	BS476-7	Class 2	
		AS1530.8.1.2007	BAL29	
		EN13501-1 EN ISO9239-1 EN ISO11925-2	Reaction to fire classification: Bfl-s1	On request, talk to the manufacturer
		GB8624,GB11785, GB8626,GB20286	Reaction to fire classification: GB8624 B ₁ (B-s1, t1)	
		ASTM E84	Flame Spread Index(FSI): 85 Smoke Developed Index(SDI): 300	
		AS/NZS 1530.3- 1999	Ignitability Index:13 Range 0-20 Spread of Flame Index: 6 Range 0-10 Heat Evolved Index:4 Range 0-10 Smoke Developed Index: 3 Range 0-10	
11	Heavy Metal Content	EPA3051	Sb: ND, As: ND, Se: ND, Sn: ND	
12	Heat reversion	EN15534 EN479	0.17% (Test temperature: 100°C)	
13	Lead Content Test	EUNo.628/2015	Non Detected	
14	Mould Resistance	ASTM G21	Rating 0	
15	Moisture Content	EN15534 EN322	0.50%	
16	Neutral salt spray test	ASTM B117	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)	

NO.	Property	Test Method	Test results	Remark
17	Point Load	EN15534	Maximum load: 4.5kN	Span: 300mm
		EN15534	Maximum load: 3.6kN	Span: 400mm
		EN15534	Maximum load: 3.3kN	Span: 450mm
18	Pb, Cd, Hg, Cr6+	RoHs-IEC62321	Pb: ND, Cd: ND, Hg: ND, Cr6+: ND	
19	Resistance to artificial weathering	EN15534 ISO4892-2	After 2000h exposure $\Delta E^*=1.09$, Grey Scale=4-5	
20	Rockwell Hardness	ASTM D785	78.7R	
21	Slip Resistance	AS/NZS 4586	Wet Pendulum Testing: Rating: P5	Pattern:Y37
		AS/NZS 4586	Wet Pendulum Testing: Rating: P2	Pattern:Y82
22	Swelling and water absorption (24hours immersion)	EN15534	①Swelling: 0.05% in thickness, 0.01% in width, 0.01% in length. ②Water absorption: 0.22%	
23	Swelling and water absorption (28days immersion)	EN15534	①Swelling: 0.47% in thickness, 0.04% in width, 0.05% in length. ②Water absorption: 0.92%	
24	SRI Testing	ASTM C1549, ASTM C1371, ASTM E1980	19	
25	Thermal Resistance	ASTM C518	Thermal conductivity: 0.1589W/(m·k) Thermal resistance: 0.0830(m ² ·K)/W	
26	Thermal Conductivity	EN14041	0.19738W/m·K	
27	UV Weathering test	ASTM G154	After 3000 hours test, Grey Scale 4-5, $\Delta E^*=1.42$	
28	Uplift Resistance	ICC-ES AC174 ASTM E330	Average ultimate load ≥ 427 psf	
29	VOC&TVOC	ASTM D5116	Non Detected	