

Castellation Cladding Technical Sheet

Model	Photo	Dimension
UH46		121.5 x 25 mm (4.8 x 1.0 in)
UH61		196.5 x 25 mm (7.7 x 1.0 in)
UH50		75 x 54 mm (3.0 x 2.1 in)
UH51		75 x 81 mm (3.0 x 3.2 in)

Model	Photo	Dimension
UH58		196.5 x 25 mm (7.7 x 1.0 in)
UH59		90 x 54 mm (3.5 x 2.1 in)
UH60		145 x 112.5 mm (5.7 x 4.4 in)

NO.	Property	Test Method	Test results	Remark
1	Brinell hardness	EN15534	8.2N/mm ²	
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 ⁻⁶ mm/mm °C	
		EN15534	34.0×10 ⁻⁶ K ⁻¹	
5	Content of pentachlorophenol	CE (EN14041(2004))	2.99ppm	
6	Degree of chalking	EN15534	Rating 0, no chalking.	
7	Fire Resistance	EN13501-1 EN ISO11925-2	Reaction to fire classification: E	
8	Formaldehyde Content	EN717-1	Non Detected	
		ASTM D6007-14	Non Detected	
9	Heavy Metal Content	EPA3051	Sb: ND, As: ND, Se: ND, Sn: ND	
10	Heat reversion	EN15534 EN479	0.17% (Test temperature: 100 °C)	
11	Heat build-up	EN15534	Δ T=-2.7 °C	
12	Lead Content Test	EUNo.628/2015	Non Detected	
13	Mould resistance	ASTM G21	Rating 0	
14	Moisture Content	EN15534 EN322	0.83%	
15	Neutral salt spray test	ASTM B117-2011	After 200 hours tests, there was no visible change appeared on the surface: Front surface: Δ E*=1.22, Grey Scale: 4-5 Back surface: Δ E*=1.06, Grey Scale: 4-5	
		EN15534 ISO9227	Δ E*=1.42, Grey Scale=4 (Exposure 96h)	

NO.	Property	Test Method	Test results	Remark
16	Pb, Cd, Hg, Cr ⁶⁺	RoHs-IEC62321	Pb: ND, Cd: ND, Hg: ND, Cr ⁶⁺ : ND	
17	Resistance to scratch test	ISO4586-2	Rate 2	
18	Resistance to indentation	EN15534	Apply 2000N load Brinell hardness: 60Mpa, Rate of elastic recovery: 64%	
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	Swelling and water absorption (24hours immersion)	EN15534-1 EN15534-4	① Swelling: 0.43% in thickness, 0.02% in width, 0.03% in length. ② Water absorption: 0.11%	
22	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%	
23	SRI Testing	ASTM C1549 ASTM C1371 ASTM E1980	19	
24	Surface Bond quality	EN319	>2.08MPa	
25	Thermal Resistance	ASTM C518-2010	Thermal conductivity: 0.1589W/(m·k) Thermal resistance: 0.0830(m ² ·k)/W	
26	Thermal conductivity	CE (EN14041(2004))	0.19738W/m·K	
27	UV Weathering test	ASTM G154	After 3000 hours test, Grey Scale3, $\Delta E^*=3.56$	
28	VOC&TVOC	ASTM D5116-11	Non Detected	
29	Water absorption	ASTM D1037	Water absorption(24h): 0.12%	
30	Installation Span	Manufacturers Specification	500mm on center	