

## TEST REPORT

**DATE: 01-14-2025**
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**TEST NUMBER: 0313881**

<b>CLIENT</b>	Urban Surfaces
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<b>TEST METHOD CONDUCTED</b>	NALFA 3.12, 3.13, 3.14 Determination of Flatness, Openings and Ledging
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DESCRIPTION OF TEST SAMPLE	
<b>IDENTIFICATION</b>	Timber Haus
<b>CONSTRUCTION</b>	8mm + 1mm Eco Pad Laminate Water Resistant
<b>BACKING</b>	1mm Eco Pad

### GENERAL PRINCIPLE

The submitted goods were measured to determine geometrical values for flatness, openings and ledging when applied together. All values listed are in mm.


### TEST RESULTS

CHARACTERISTIC	VALUE (mm)
3.12 Length Flatness	Max: 0.265 (0.019%) / Avg: 0.194 (0.014%) – Convex
3.12 Width Flatness	Max: 0.172 (0.089%) / Avg: 0.135 (0.070%) – Convex
3.13 Openings Between Elements	Max: 0.087/ Avg: 0.073
3.14 Height Difference Between Elements (Ledging)	Max: 0.091/ Avg: 0.076

**\* Meets NALFA specified criteria for usage Levels 1, 2, 3 and 4.**

### PERFORMANCE PROPERTIES MINIMUM PERFORMANCE VALUES

		Residential 1	Light Commercial 2	Commercial 3	Heavy Commercial 4
3.12	Flatness, Max % width, Max % length	$F_{w\ concave} \leq 0.15\%$ / $F_{w\ convex} \leq 0.20\%$ $F_{l\ concave} \leq 0.15\%$ / $F_{l\ convex} \leq 0.20\%$	$F_{w\ concave} \leq 0.15\%$ / $F_{w\ convex} \leq 0.20\%$ $F_{l\ concave} \leq 0.15\%$ / $F_{l\ convex} \leq 0.20\%$	$F_{w\ concave} \leq 0.15\%$ / $F_{w\ convex} \leq 0.20\%$ $F_{l\ concave} \leq 0.15\%$ / $F_{l\ convex} \leq 0.20\%$	$F_{w\ concave} \leq 0.15\%$ / $F_{w\ convex} \leq 0.20\%$ $F_{l\ concave} \leq 0.15\%$ / $F_{l\ convex} \leq 0.20\%$
3.13	Openings, $O_{Avg}$ / $O_{Max}$ mm	$O_{Avg} \leq 0.006$ in.(0.15 mm) / $O_M$ $\leq 0.008$ in. (0.2mm)	$O_{Avg} \leq 0.006$ in.(0.15 mm) / $O_M$ $\leq 0.008$ in. (0.2mm)	$O_{Avg} \leq 0.006$ in.(0.15 mm) / $O_M$ $\leq 0.008$ in. (0.2mm)	$O_{Avg} \leq 0.006$ in.(0.15 mm) / $O_M \leq 0.008$ in. (0.2mm)
3.14	Ledging, $h_{Avg} \leq$ mm $h_{Max} \leq$ mm	$h_{Avg} \leq 0.10$ mm / $h_{Max} \leq .15$ mm	$h_{Avg} \leq 0.10$ mm / $h_{Max} \leq 0.15$ mm	$h_{Avg} \leq 0.10$ mm / $h_{Max} \leq 0.15$ mm	$h_{Avg} \leq 0.10$ mm / $h_{Max} \leq 0.15$ mm

**APPROVED BY:**


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