

TimberTech Material Properties¹

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PROPERTY	Standard	RESULTS	RESULTS (Metric)
Flame Spread Index Earthwood Evolutions	ASTM E84	70	70
		85	85
	CAN/ULC S102.2	61	61
Smoke Development Earthwood Evolutions	ASTM E84	200	200
	ASTM E84	450	450
	CAN/ULC S102.2	351	351
Burning Brand	E108-modified San Diego County	Class B ²	
UnderDeck Test	San Diego County	Pass ³	
	CA SFM 12-7-4	Pass ³	
Flash Point	ASTM D1929	651°F	344°C
Spontaneous Ignition	ASTM D1929	788°F	420°C
Coefficient of Thermal Expansion	ASTM D696	width	6.1x10-5 mm/mm/°c
		length	3.6 x 10-5 mm/mm/°c
Floorizon Plank		Flexural Stiffness ⁴	1,224,000 kN-mm ²
		Moment Capacity ⁴	287,900 N-mm
Earthwood Evolutions		Flexural Stiffness ⁴	628,203 kN-mm ²
		Moment Capacity ⁴	283,592 N-mm
TwinFinish	ASTM D 6109	Flexural Stiffness ⁴	838,136 kN-mm ²
		Moment Capacity ⁴	301,557 N-mm
ReliaBoard		Flexural Stiffness ⁴	595,218 kN-mm ²
		Moment Capacity ⁴	232,410 N-mm
DockSider		Flexural Stiffness ⁴	1,776,993 kN-mm ²
		Moment Capacity ⁴	512,499 N-mm
Compression Parallel to Extrusion Direction ⁴	ASTM D 143	2685 psi	18.5 MPA
	ASTM D 143	4649 psi	32.0 Mpa
Tensile ⁴	ASTM D 638	1734 psi	11.9 Mpa
	ASTM D 143	1274 psi	8.8 Mpa
HDT 264 (psi)	ASTM D 648	206°F	1.82MPA / 96.7°C
Vicat 1 kg	ASTM D 1525	274°F	134.4°C
Shore D Hardness	ASTM D 2240	D85	D85
Specific Gravity gm/cc ³	ASTM D 792	1.2	1.2
Termite Resistance	ASTM D 3345	Equivalent to preservative treated lumber	
Fungus Resistance (brown and white rot fungi)	ASTM D 1413	rating = no decay	
Coefficient of Friction		Brushed Surface	
		dry	0.77
		wet	0.56
		VertiGrain	
		dry	0.63
		wet	0.55
		WoodGrain	
		dry	0.54
		wet	0.43
		Earthwood Evolutions ⁵	
		dry	0.50
		wet	0.45
Water Absorption %mass	ASTM D1037	<1.29%	<1.29%

- 1) All decking profiles with exception of XLM.
- 2) Comparable to wood.
- 3) Does not include Floorizon or Earthwood Evolutions planking. Please see website for most current information.
- 4) Mean ultimate values for comparison only.
- 5) Values based on ASTM D2394 also available