

UNI - Wood Taiwan

Innovative • Weather Proof • Recyclable
Thermoplastic Elastomer (TPE)
Wood Flooring



UNI - Wood

Brand New Concept

Non-PVC and No Wooden Wastes

Wood Plastic Composite (WPC) and PVC have been commonly treated as a substitute to natural wood in outdoor construction and decoration for many years. Despite the various drawbacks of WPC and PVC material, there is lack of an alternative solution that is able to offer an excellent outdoor performance with outstanding physical and chemical stabilities.

All of this is about to change as UNI - Wood proudly presents UNI - Wood- an innovative macromolecule material contains ZERO wooden waste or PVC components and is 100% VOC free and 100% Thermoplastic Elastomer (TPE) Wood Flooring

UNI - Wood comes with great weather-resistant property, low density and excellent nail holding strength, which is the optimal solution for outdoor construction and decoration.



Decking Length:
2000 -3000mm

Decking Width:
140mm

Decking Thickness:
25mm

SGS



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Demo Projects

Excellent Weatherability & Waterproof

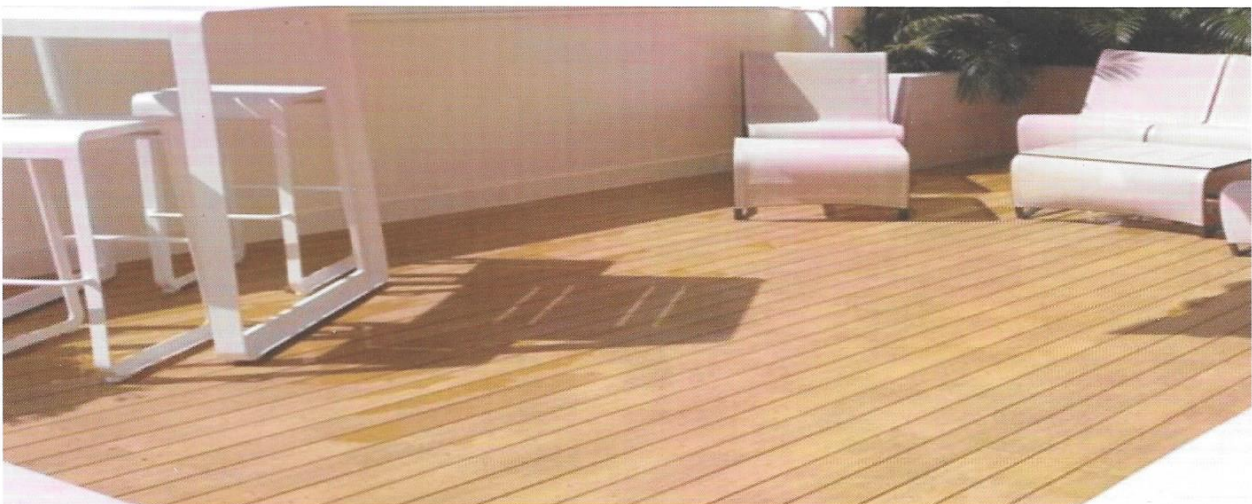
Outdoor Cafe

140X25mm UNI - Wood Decking

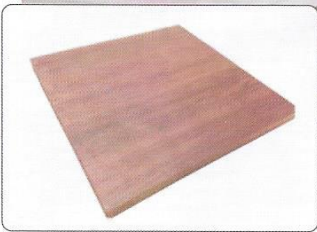
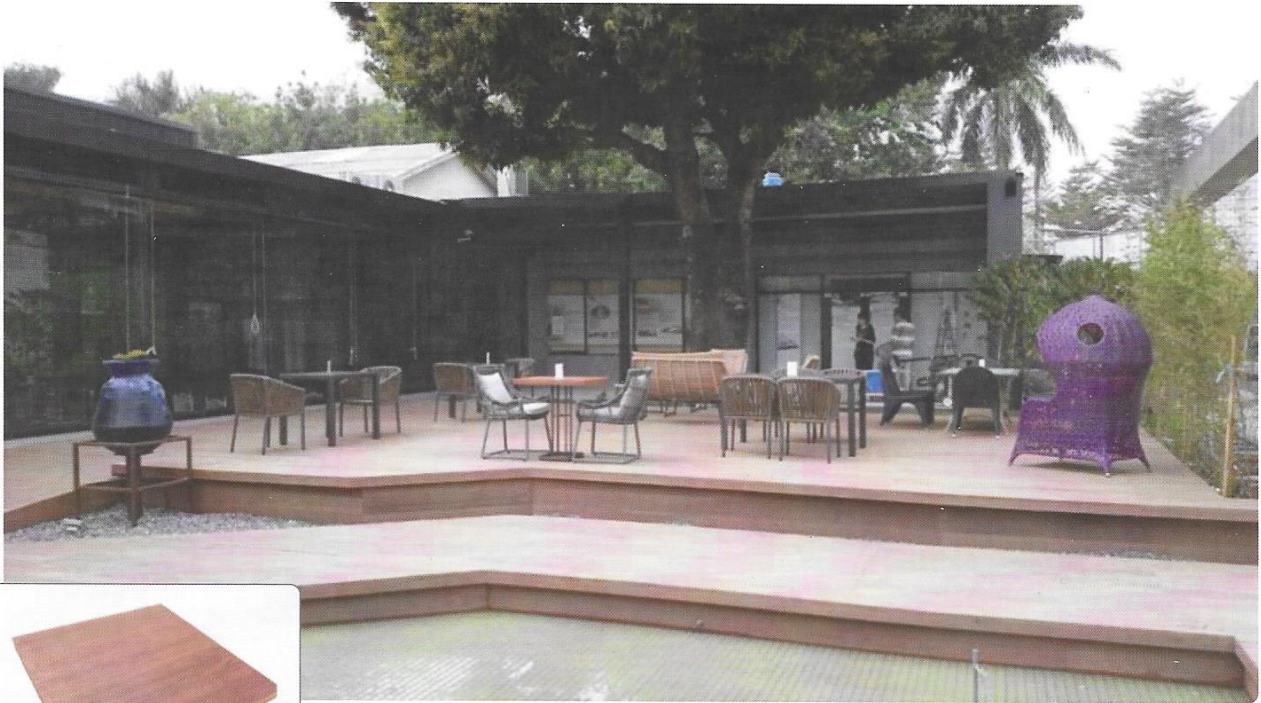


Terrace

140X25mm UNI - Wood Decking



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▲ Pool-Side Pub

▼ Swimming Pool

140X25mm UNI-Wood Decking



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◀ Villa Courtyard

Fencing:

140X25mm UNI-Wood panels

▼ Fountain

140X25mm UNI-Wood panels

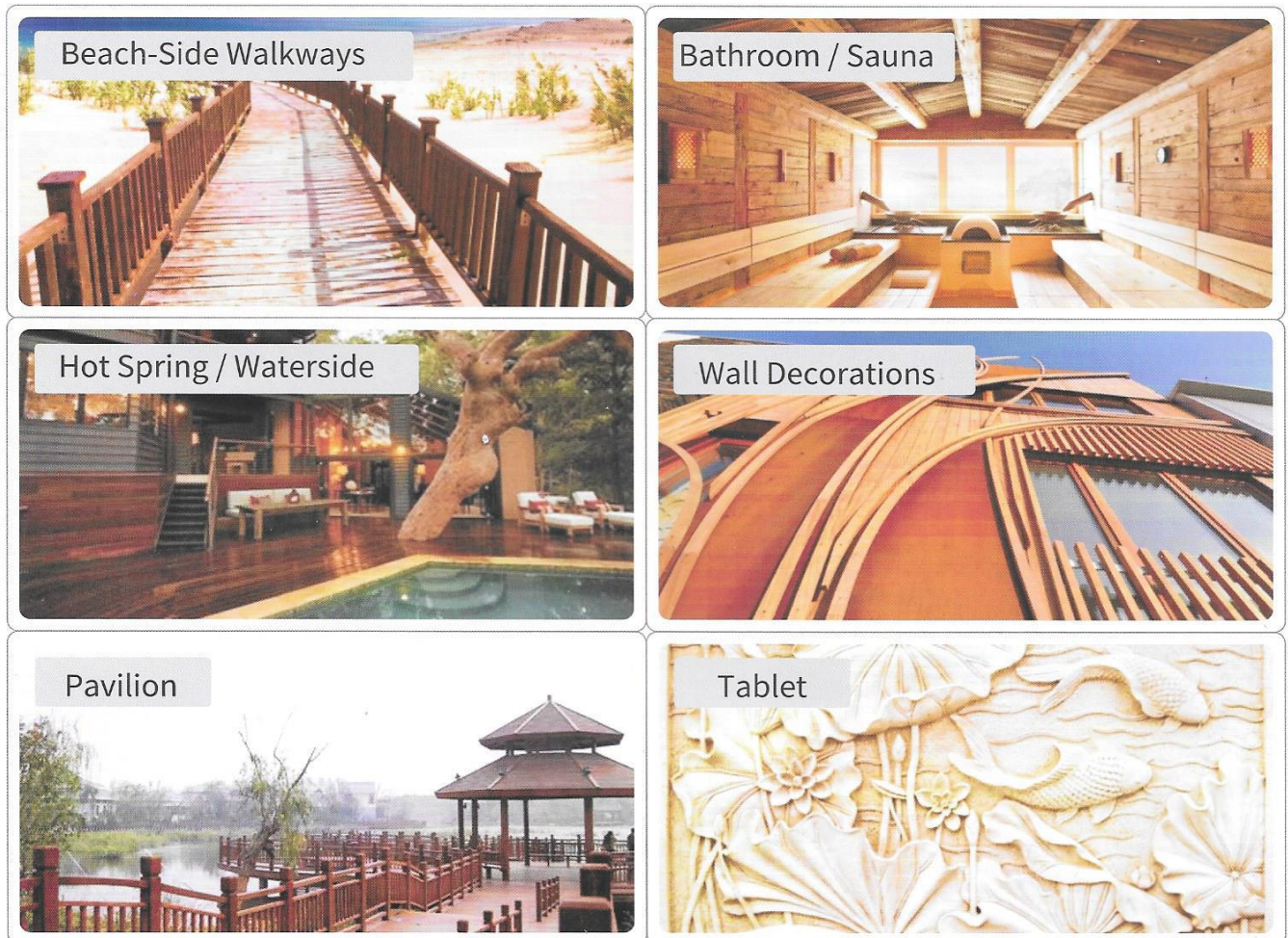


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Product Display





Usage Environments / Applications



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Why UNI - Wood Better?

Advantages against Conventional Materials

Made from WPC/ PVC 	UNI - Wood is made from Thermoplastic Elastomer (TPE) materials that is 100% recyclable.
Rot & Corrosion Problems? 	UNI - Wood material is immunized from rot and corrosion due to its specially designed closed-cell foaming technology.
Warped & Bent due to Expansion & Contractions 	UNI - Wood material offers great stability under a wide range of working temperature (-30°C ~ 70°C).
Easy Installation & Maintenance 	UNI - Wood decking/flooring can be easily installed/assembled as natural wooden materials. UNI - Wood is maintenance free due to its excellent weather resistance properties.

Strength ○ Weakness ◆

Properties	UNI - Wood	Natural Wood	WPC/PVC
Natural Wooden Texture	○	○	◆
Low Density	○	○	◆
Low Thermal Conductivity	○	○	◆
High Friction in Wet Cond.	○	○	◆
Thermoforming / Bending	○	◆	◆
Rot, Mold and Insect Resistant	○	◆	◆
Maintenance Free	○	◆	◆
Virtually Waterproof	○	◆	○
Weatherability / UV Protection	○	◆	○

UNI - Wood

Thermoplastic Elastomer (TPE) Wood Flooring

Technical Characteristics - Specification Clause

Nail Withdrawal	ASTM D1037-12	(kgf) 188
Compressive Strength	ASTM D695-10	(MPa(psi)) 16.2(2354)
Izod Notched Impact	ASTM D256-10	(J/cm(ft-lb/in.) 0.139(0.260)
Flexural Strength	ASTM D790-10	(MPa(psi)) 21.02(3049)
Flexural Modulus	ASTM D790-10	(GPa(ksi)) 1.05(152)
Tensile Strength	ASTM D638-10	(MPa(psi)) 9.38(1361)
Elongation		(%) 6.53
Heat Deflection Temperature	ASTM D648-07	(°C(°F)) 79.7(175)
Coefficient of linear thermal expansion	ASTM E831-06	-30°C ~ 60°C (um/m°C) 79.4 80.91 90.66 -22°F ~ 140°F (um/m°F) 44.30 44.95 50.37
Resistance to Chemical Reagents	ASTM D543-06	5% Hydrochloric Acid There are no abnormal condition 5% Sodium Hydroxide There are no abnormal condition
Thermal Conductivity	ASTM C518-10	(W/m K (Btu in./ft ² h °F)) 0.0826 (0.0119)
Flamibility Index	UL94 (1996)	
Test data is not compliant with the V-0, V-1 and V-2 requirements of UL 94 20mm Verical Burning Test		
UV Resistance	ASTM G154-12a	(168h) The color is obvious darken by visual check Delta - E Variance from Aging (ΔE^*) (UV, 168h) 5.24
Weathering Resistance (Salt Spray)	ASTM B117 - 11	(168h) There are no abnormal condition

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