Outdoor Flooring Core Performance Comparison

Comparison	Aluminum Decking	Preservative Wood	WPC Flooring
Structure	Metal Frame + Polymer Surface Layer	Solid Wood + Chemical Impregnation	Plastic/Wood Composite Extrusion. (No Frame Support)
Durability	30-50 years: No Fading or Cracking. (Alloy corrosion resistant + UV)	3-5 years: Prone to Cracking and Rot	5-8 years: Fading and Embrittlement. (Plastic aging/powdering)
Stability	Stable in environment. (Expansion coeff. is 1/3 of wood)	Prone to warping in large temp gaps	Softens when hot, brittle when cold
Maintenance Cost	Water rinse only. (Zero Maintenance)	Annual maintenance required. (Painting/Anti-corrosion)	Solid boards rigid / Hollow noisy
Eco-Friendliness	Zero Formaldehyde. (Metal skeleton + polymer)	Contains Arsenic/Chromium preservatives	Contains recycled plastics. Heavy metal residue
Load-Bearing Safety	Load capacity >= 800kg/m2. (Suitable for dense furniture)	Prone to sagging or breakage	Prone to permanent deformation

Enhanced Modular Composite Material

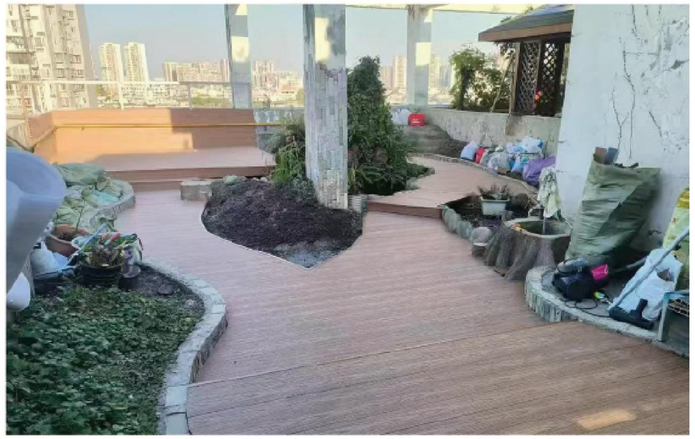
Unprecedented Span Load Capacity

Lifespan™ aluminum core structure significantly improves stability and flexural strength. Modified copolymer adhesives ensure firm bonding. Our proprietary composite cladding (Cap) with Eva-tech technology provides aesthetic finish and superior protection.

1. Wear-resistant, waterproof and sun-proof

2. Embossed texture, clear and natural grain

3. 1.2mm thickness, lightweight, high-strength



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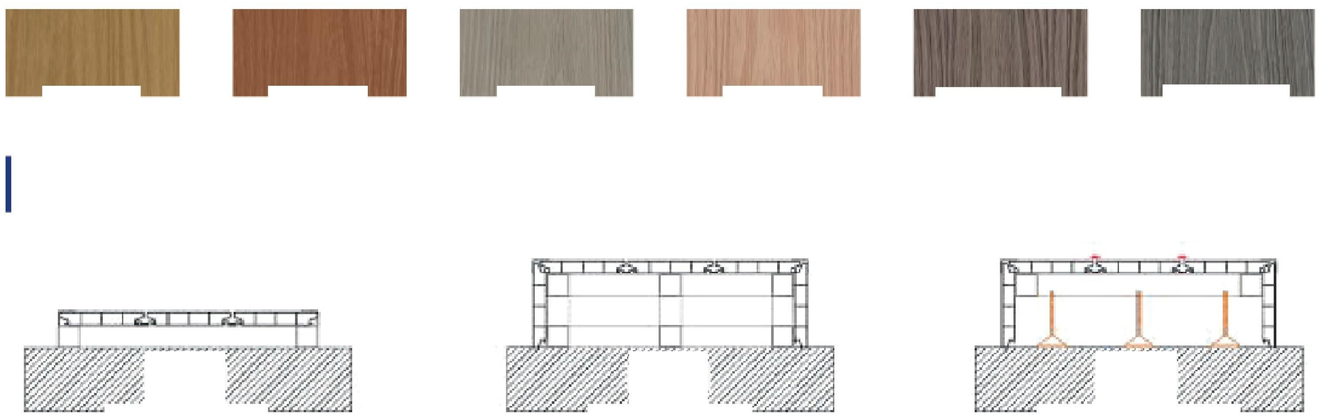
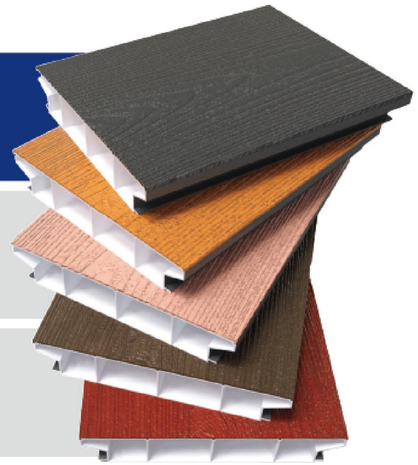
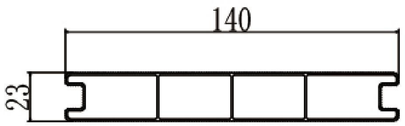
140 x 23 mm

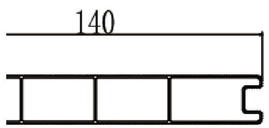
140 x 23 mm







140 x 23 mm



140 x 23 mm

Core Process Analysis

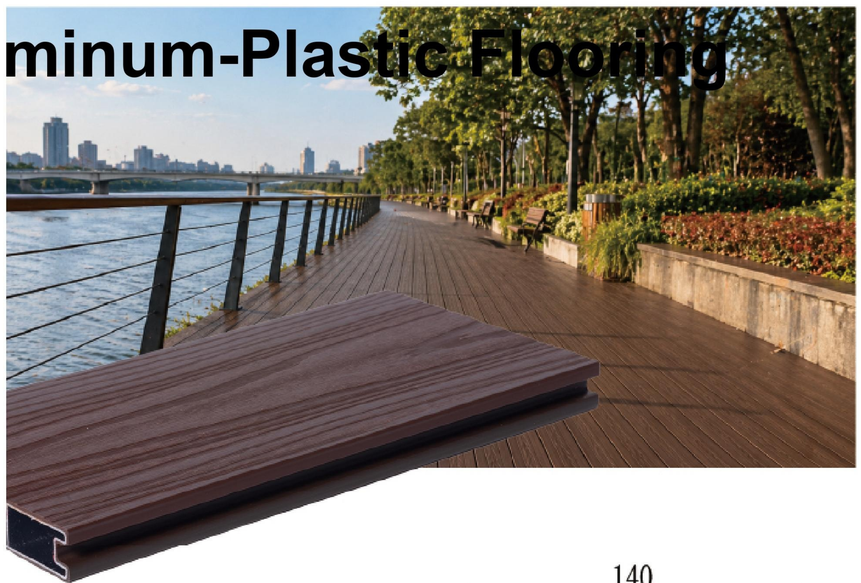
Advantage 1: Aluminum Core

Easy Tool Installation | High Efficiency

Spec: 100x20

Spec: 100x20

Aluminum-Plastic Flooring



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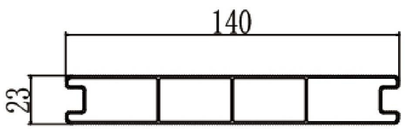

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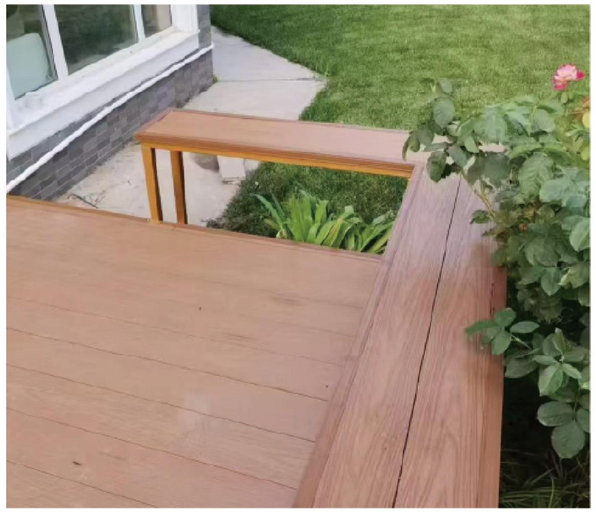

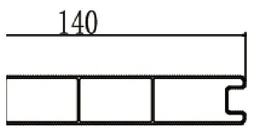

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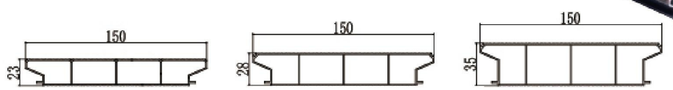
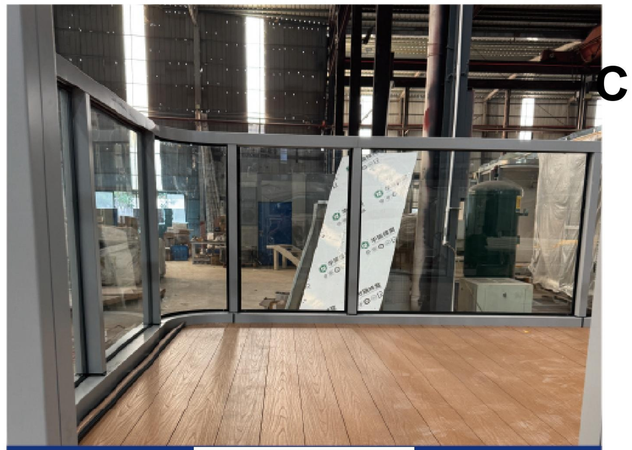
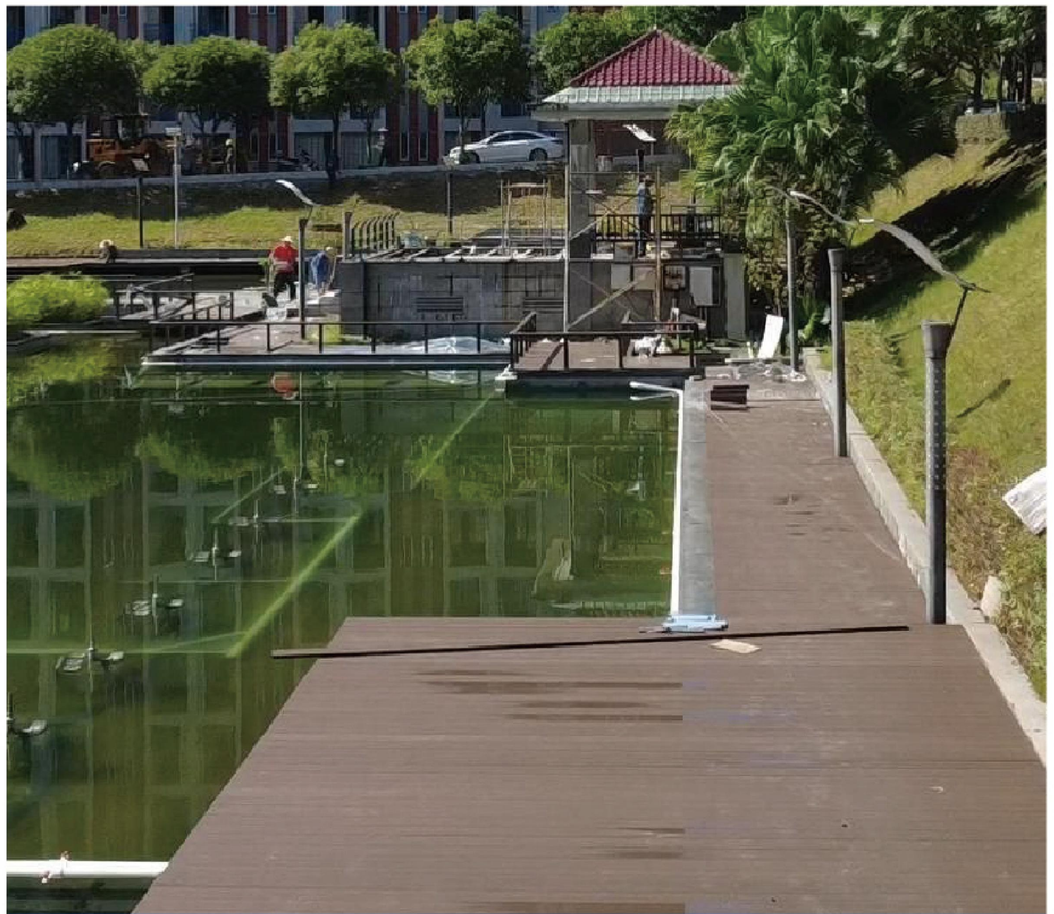
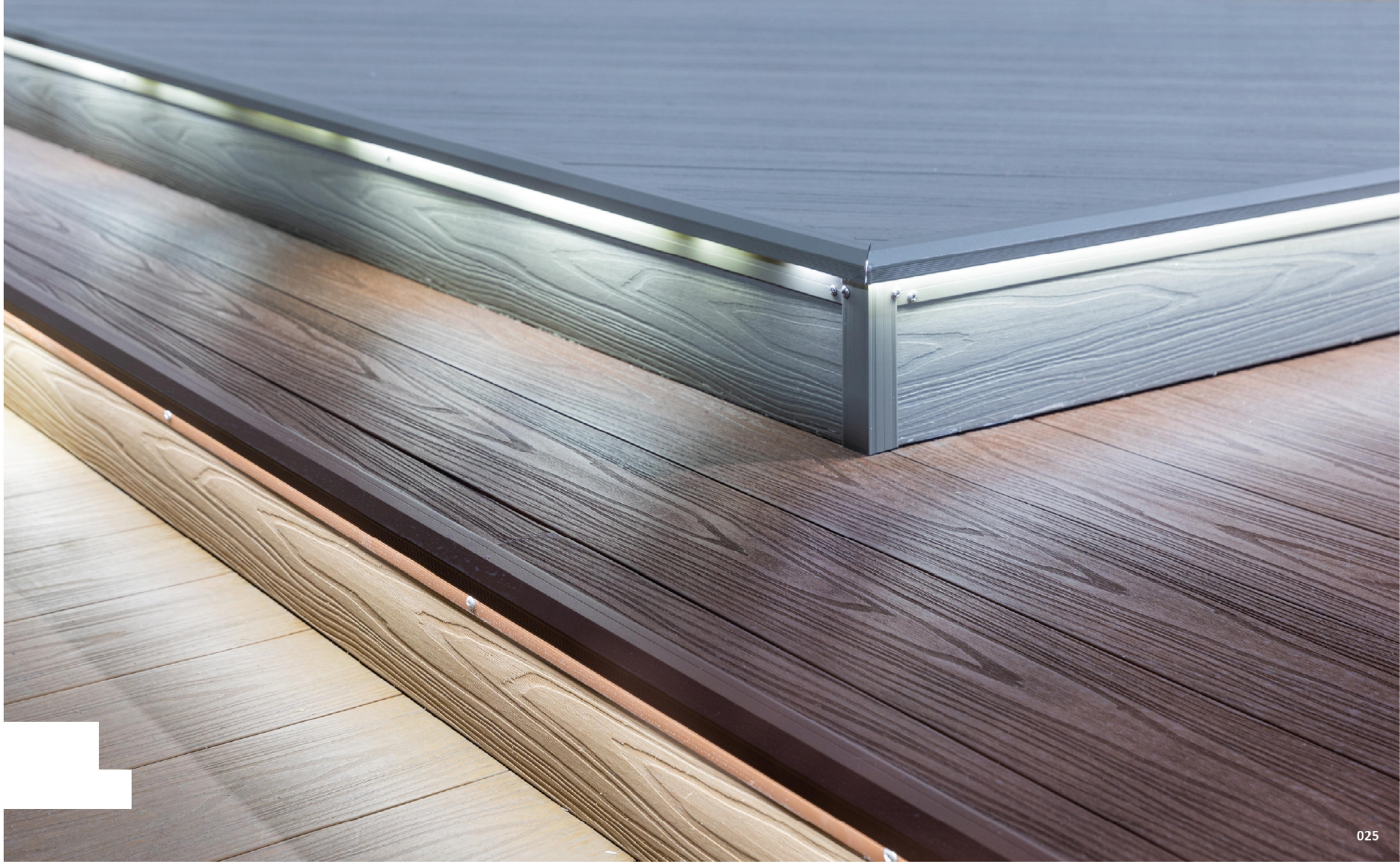


Crafted for Spatial Texture







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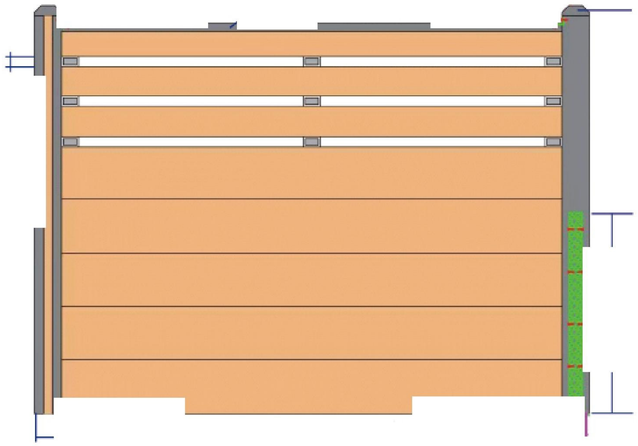
Premium Quality Materials

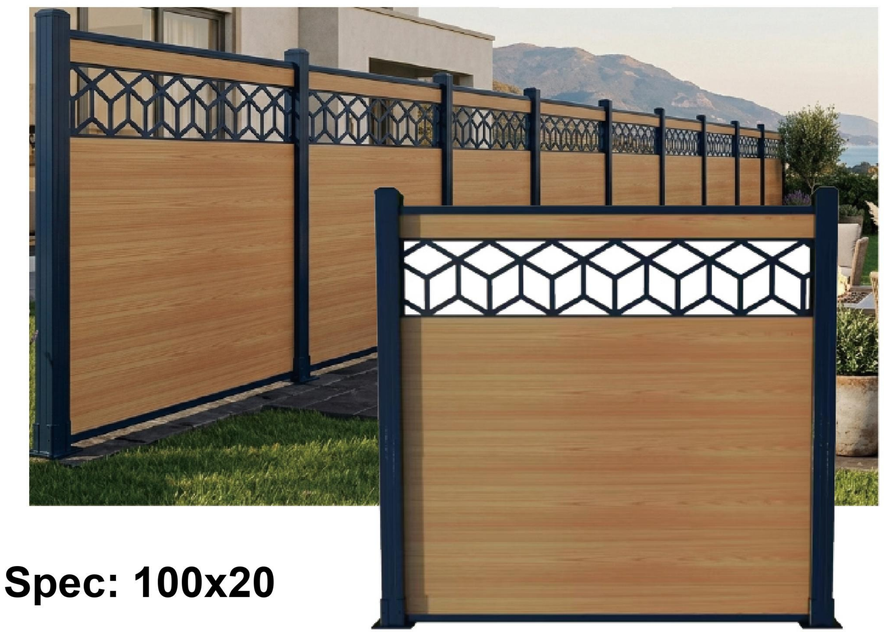
Customizable **Fire & Sun Proof** **High Load Capacity**

Fast & Easy Installation

Premium Aluminum **Dual Hydraulic Rod** **Insect & Termite Proof**

Quality & Aesthetics





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Precision Craftsmanship

Spec: 100x20

Spec: 100x20

Spec: 100x20

Spec: 100x20