



EcoR DECK

by  xterWood

Orchard Boulevard, Singapore

Introducing EcoR Deck: Where Innovation Meets Enduring Beauty

Transform your outdoor space into a lasting oasis with PVC decking featuring an advanced ASA outer layer—a revolutionary blend of durability, style, and performance. Designed for homeowners and professionals who demand the best, this cutting-edge decking solution redefines outdoor living by combining the strength of PVC with the superior protection of ASA technology.



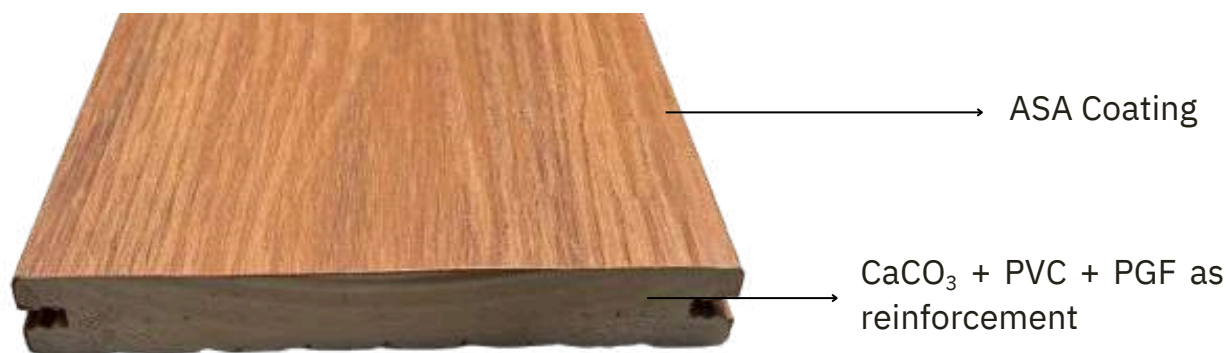
Whether battling harsh sunlight, heavy foot traffic, or unpredictable weather, EcoR Deck stands resilient. Its UV-resistant ASA shell ensures vibrant colors stay true for years, while the moisture-proof core resists warping, mold and decay. Lightweight yet incredibly tough, this decking offers effortless installation and requires zero staining, sealing, or sanding.

Perfect for patios, poolside areas, or cladding, be it bustling commercial spaces or the sanctuary of homes, EcoR Deck delivers the look of premium wood without the drawbacks. Experience the future of outdoor decking.

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|---|---|
|  Water resistance |  Anti-mildew |
|  Moisture-proof |  Anti-cracking |
|  Splinter-free |  Easy maintenance |
|  Shrinkage rate $\leq 0.3\%$ |  Simulated wood grain design |
|  Weather resistance |  Anti-termite |

Material

Employing new formula and advanced technology, EcoR Deck is crafted from a combination of PVC, silica, foaming agent and polymerised glass fibre. The resulting board closely mimics the appearance of real wood. Free from heavy metals and harmful VOCs, it is designed to feature no expansion and minimal shrinkage, while also being environmentally friendly and recyclable.



EcoR Deck features high-performance, low-maintenance decking boards manufactured through a co-extrusion process that bonds a durable ASA outer layer to a rigid PVC core reinforced with polymerized glass fibers—engineered for superior weather resistance, color retention and durability.

Capping Material (Optional):

100% Acrylonitrile Styrene Acrylate (ASA)

Dimension

Width: 140mm

Thickness: 22mm

Length: 2200mm

Core Material:

Polymerised glass fibre

55% Calcium Carbonate (CaCO₃)

33%% Polyvinyl Chloride (PVC)

12% Chemical Additives

Board weight: 6kg/pc or 19.5kg/m²

Density: 0.9kg/m³

Area: 0.308m²

EcoR Deck is available with or without ASA Coating



EcoR Deck is available in Wood Grain or Straight Grain





Stainless Steel Clip
with PVC Joist



Stainless Steel Clip with
Aluminium Hollow Section

It is recommended to maintain an expansion gap of **2mm-3mm** between boards and joist spacing of **300mm-350mm** (max).

Installation Kit

Fasteners



Stainless Steel
Clip

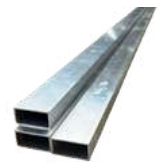


Stainless
Steel Screw

Supports



PVC Joist



Aluminium
Hollow Section



Steps Termination

Warranty

EcoR Deck offers up to **10-year** limited warranty against fading, staining, cracking and structural defects for residential and commercial use projects.

Maintenance

Maintaining EcoR Deck is simple and hassle-free. Just clean the surface regularly with water and mild detergent to remove dirt and debris. For tougher stains, use a soft brush or non-abrasive cleaner. Unlike traditional decking, EcoR Deck does not require sanding, sealing, staining, or painting—saving you time and money over the years.

Physical and Mechanical Properties

Flexural Strength	≥26.2MPa	ASTM D6109-24
Modulus of Elasticity	≥2490MPa	ASTM D6109-24
Shore Hardness	D/15:69	GB/T 2411-2008
Tensile Strength	11.5MPa	ASTM D638-22
Stiffness	2200MPa	ASTM D7032-21 ASTM D6109-24
Water Absorption	1%	ASTM D1037-12
Thickness Swelling	0.3%	ASTM D1037-12
Linear Expansion (50% RH, 48h, -30°C)	Length: -0.19% Width: -0.22% Thickness: -0.09%	ASTM D1037-12
Linear Expansion (50% RH, 48h, 60°C)	Length: 0.09% Width: 0.17% Thickness: 0.14%	ASTM D1037-12

Official Performance Test

Pendulum Test (Dry Condition)	95	EN 16165:2021
Pendulum Test (Wet Condition)	90	EN 16165:2021
UV Stability	≤ΔE 2.4 color shift after 2,000 hours	ISO 4892-2
Slip Resistance	Critical Angle of Inclination: 34° Classification: R12	AS 4586-2013
Fire Resistance	Bfl-s1	EN 13501-1:2018
Scratch Resistance	≤5% gloss loss after 1,000 cycles	ASTM D1044

RoHS Chemical Test

Cadmium, Lead, Mercury, Chromium, Polybrominated Biphenyls, Polybrominated Diphenyl, Di(2-ethylhexyl) Phthalate, Benzyl Butyl Phthalate, Dibutyl Phthalate, Diisobutyl Phthalate	Not Detected	2011/65/EU and (EU) 2015/863 for homogeneous material
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SGS

WPC decking blends wood and plastic to create a natural appearance with decent durability. Solid wood decking is made entirely of natural wood, providing a classic look but requiring more maintenance. EcoR Deck decking, made from fully synthetic materials reinforced with polymerised glass fibre composite material, offers exceptional durability and minimal maintenance needs.

FEATURE	WPC	EcoR Deck in ASA Coating	Solid Wood
Material	Wood dust & PE plastic	PVC reinforced with polymerised glass fibre	Natural wood
Appearance	Natural wood-look alike & texture	Natural wood-look alike & texture	Natural wood
Expansion & Contraction	Excessive expansion & contraction with temperature changes	Very stable with minimal expansion & contraction	Shrink overtime
Warping & Cracking Risk	High	Low	High
UV Resistance	★ ★ ★	★ ★ ★ ★ ★	★ ★
Scratch Resistance	★ ★ ★	★ ★ ★ ★ ★	★
Fire Resistance	★ ★ ★ ★	★ ★ ★ ★ ★	N/A
Mold / Mildew Resistance	★ ★ ★	★ ★ ★ ★	★
Water Resistance	★ ★ ★	★ ★ ★ ★ ★	★ ★
Durability	★ ★ ★ ★	★ ★ ★ ★ ★	★ ★
Recycleability	N/A	✓	N/A

Project References



Orchard Boulevard, Singapore



Belmont Road, Singapore



First Avenue, Singapore



Tagore Avenue, Singapore



Keppel Bay, Singapore



Petaling Jaya, Malaysia



Petaling Jaya, Malaysia



Mayflower, Singapore

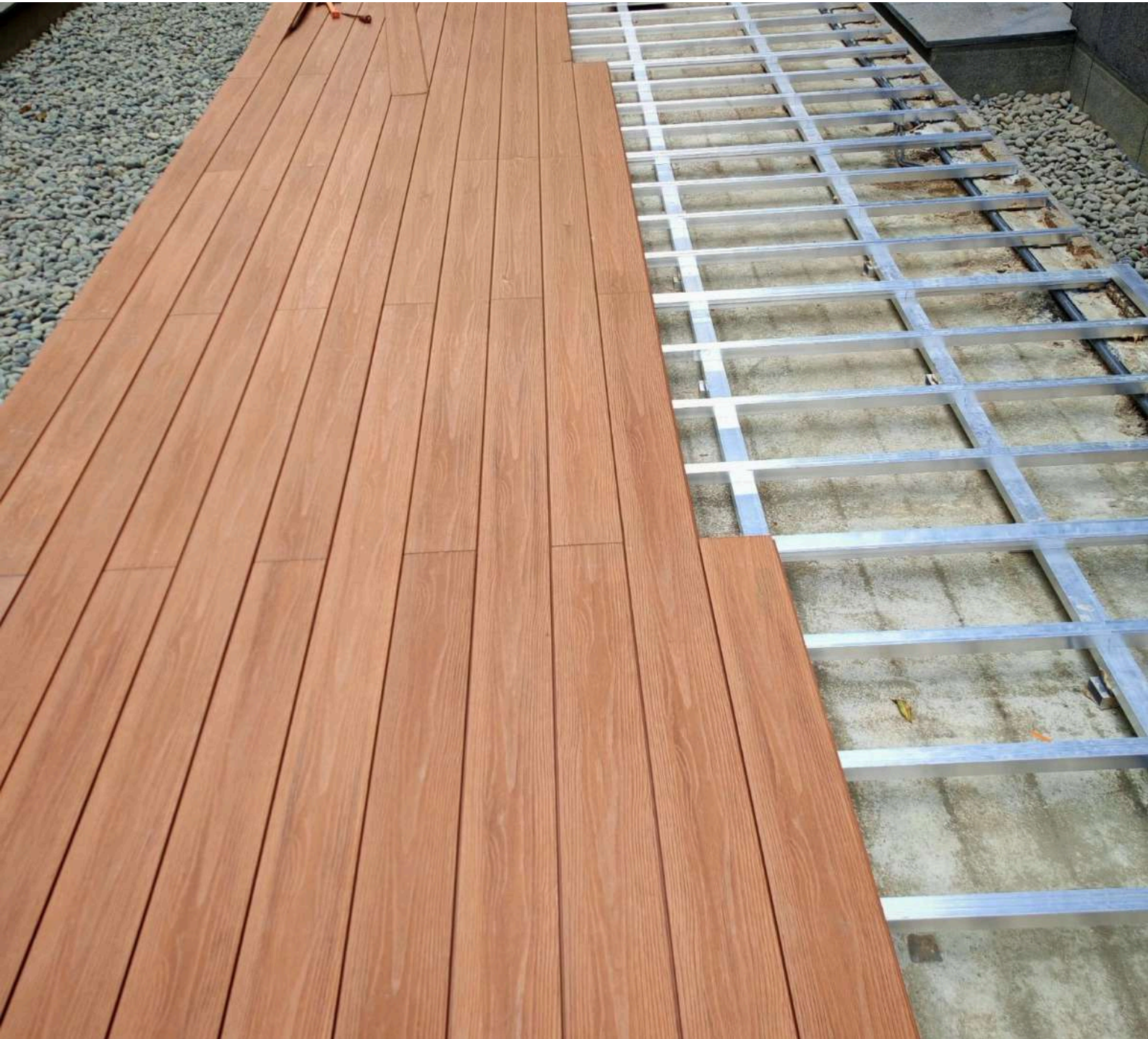


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