



SENTAI
Persistent Professional Premium



Worldwide Leading Composite Manufacturer



www.sentaiwpc.net





REGALBOARD™

Woodlike Vintage Composite Decking

Every moulded wood grain is finely carried out by experienced artisans with much meticulousity, and will never be alike with any other product in the market.

REGALBOARD™

Woodlike Vintage Composite Decking



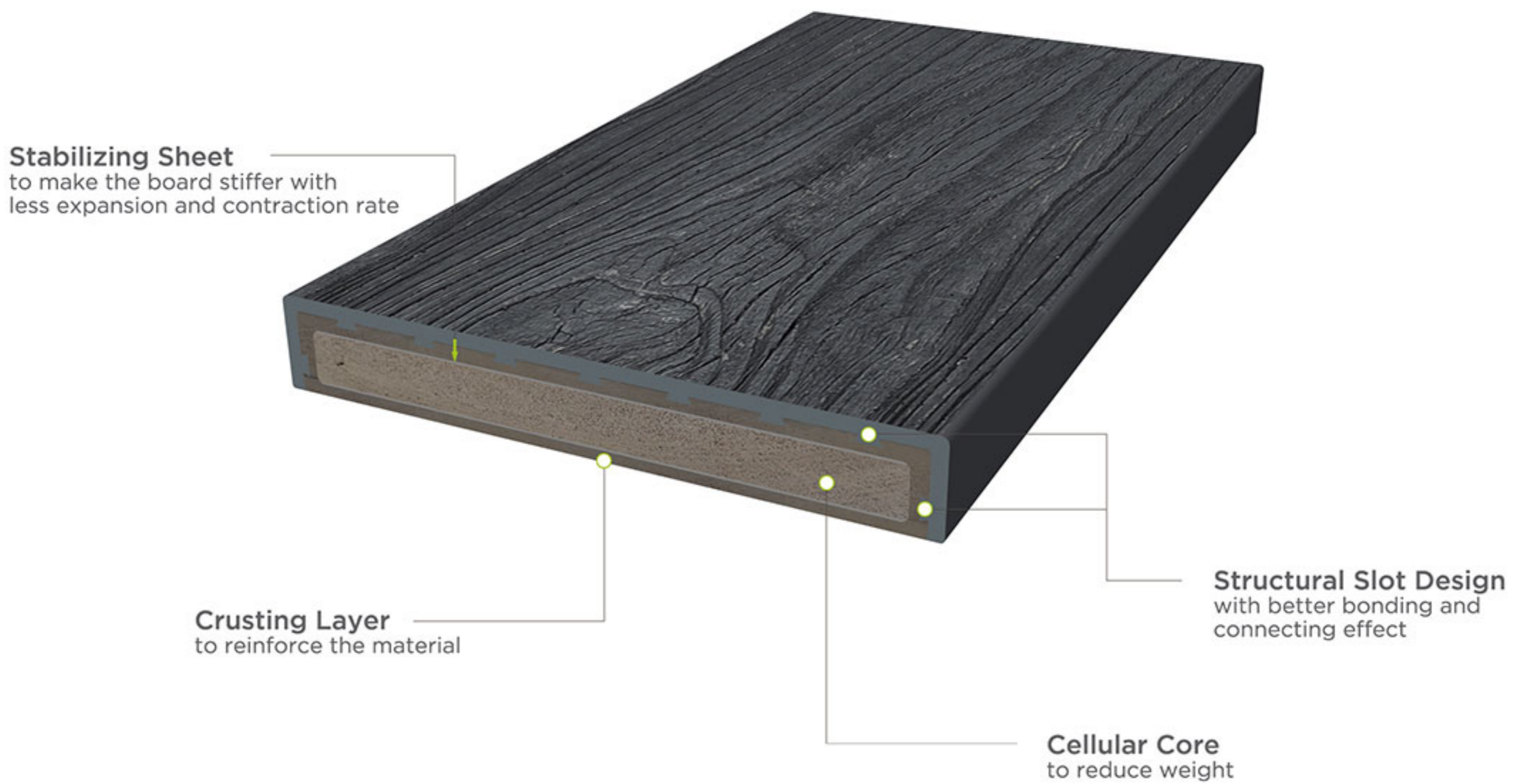


Distinctive grain pattern, customize a terrace that only belongs to you

By moulding from real wood species, we duplicate the grain pattern to ensure every piece of the board is unique and rare, and meanwhile achieve the minimum repeatness appearance.

What is Regalboard?

Regalboard employs the latest surface treatment technology to deliver the most unique and natural decking outlooks with superior performance in all dimensions.



Real wood

Regalboard

Regalboard, just more than wood
we do not fell wood, but create wood-like building material



Invisiable Screwing Solution

make your deck looks nicer and installation easier

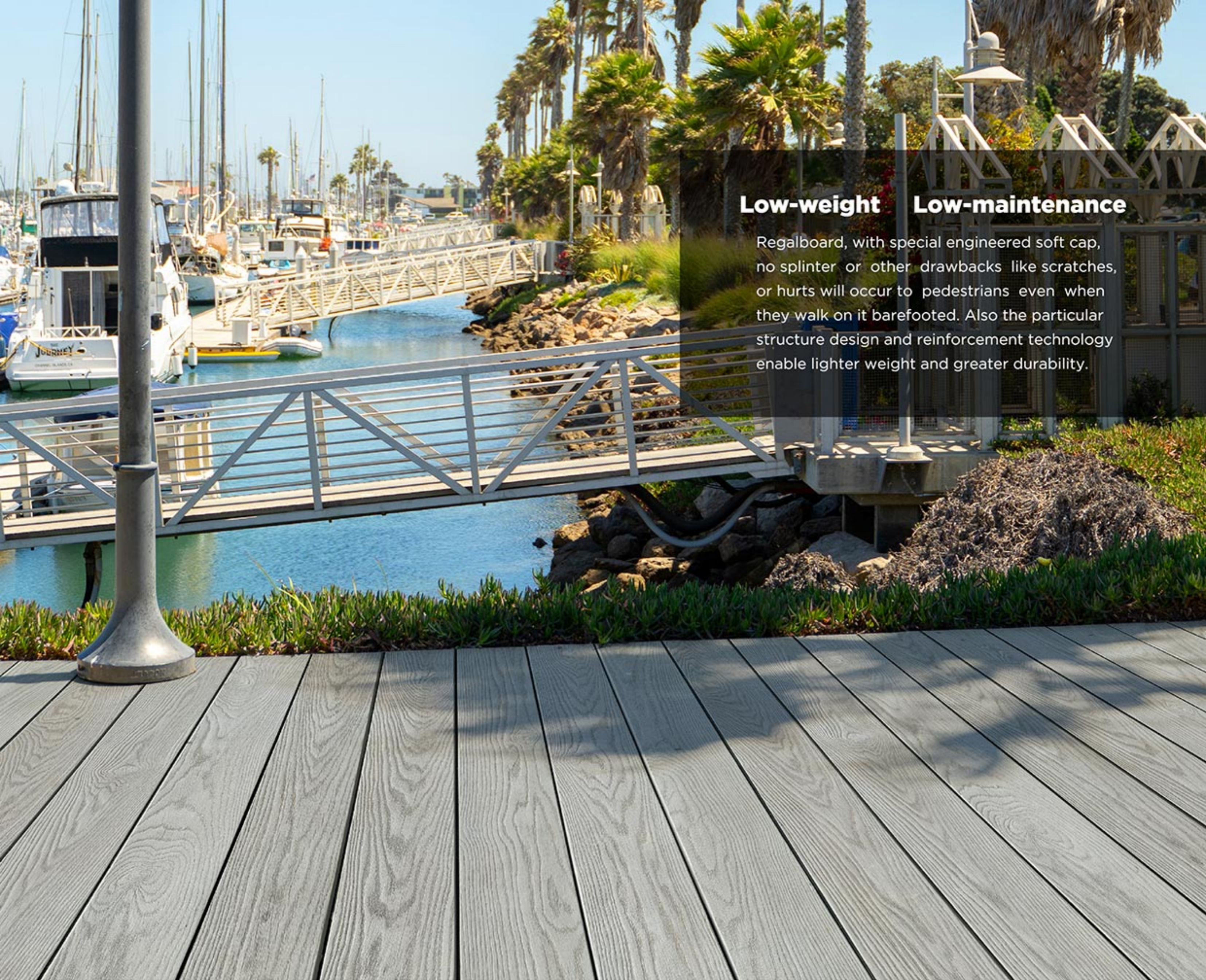


Thanks to the PU material, the fixing screws can be completely absorbed without head shown



Reliable durability

Reinforcement technology tremendously optimised the board mechanical performance



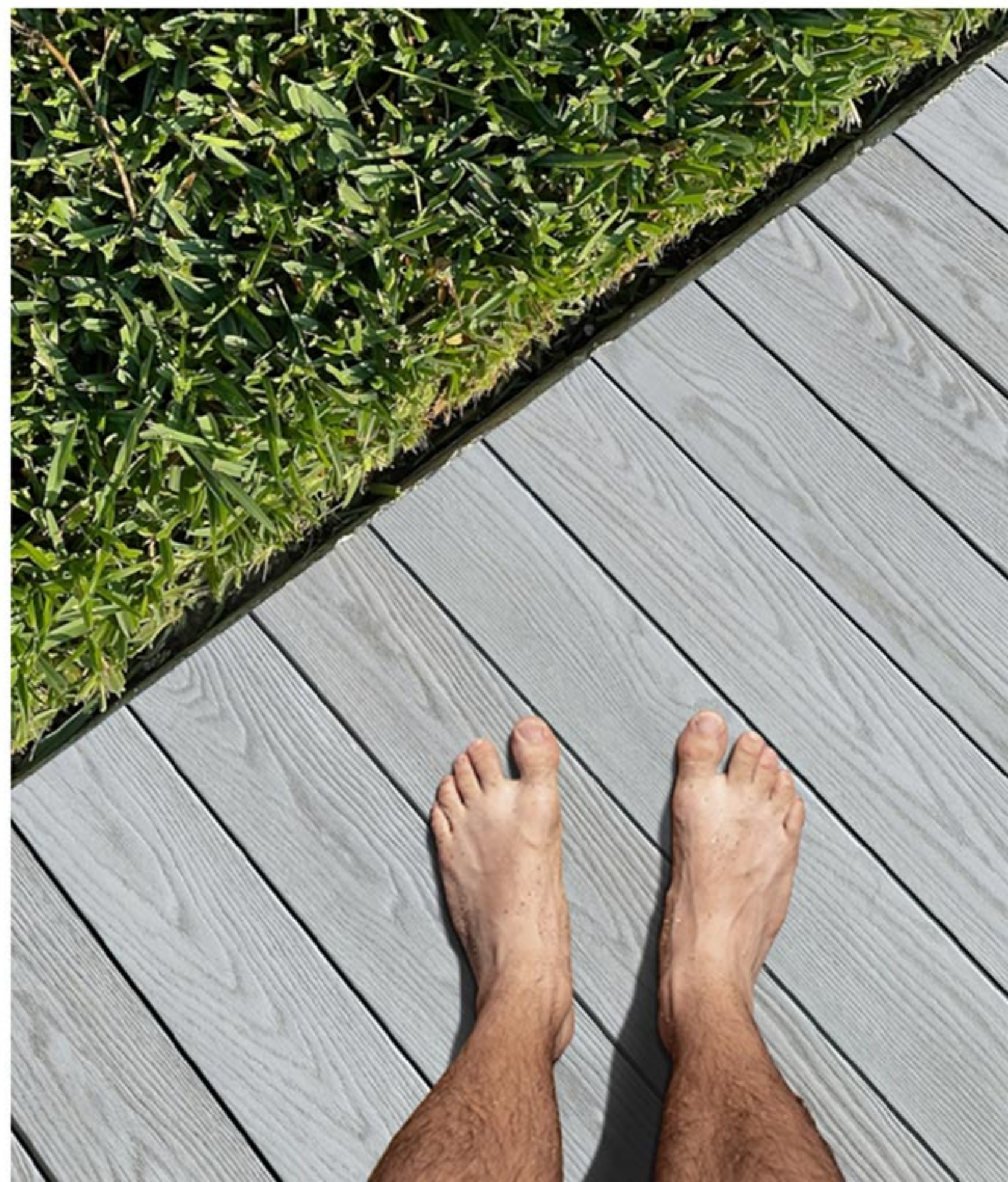
Low-weight Low-maintenance

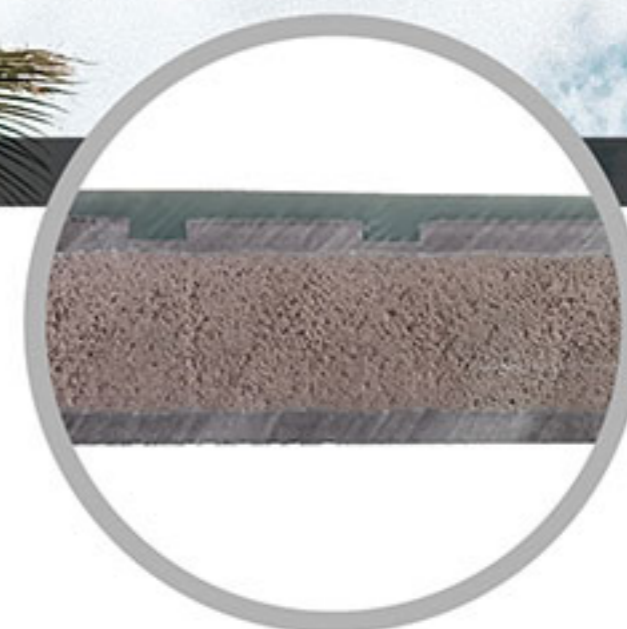
Regalboard, with special engineered soft cap, no splinter or other drawbacks like scratches, or hurts will occur to pedestrians even when they walk on it barefooted. Also the particular structure design and reinforcement technology enable lighter weight and greater durability.

ANTI-SLIPPERY FRIENDLY TO BAREFOOT

**Engineered polyurethane
material with soft surface**

The soft surface material makes it easy to create enough friction when people walking on it together with the moulded grain pattern, the slip resistance performance can really surpass other product.





Why Choose Us?

CHOOSE SUSTAINABLE DECKING

1. Reinforced core material with higher loading ability

Thanks to the well master of the crusting technology, we achieved to make the core material weight lighter, while keeping the board with superior mechanical performance, like anti-bending and etc.

2. Cap material More durable

By adopting the speical engineered polyurethane material, we are able to get a soft surface while keeping up with extremely good anti-abrasion and anti-scratch performance effect.

3. Bonding performance between cap and core Tighter and Safer

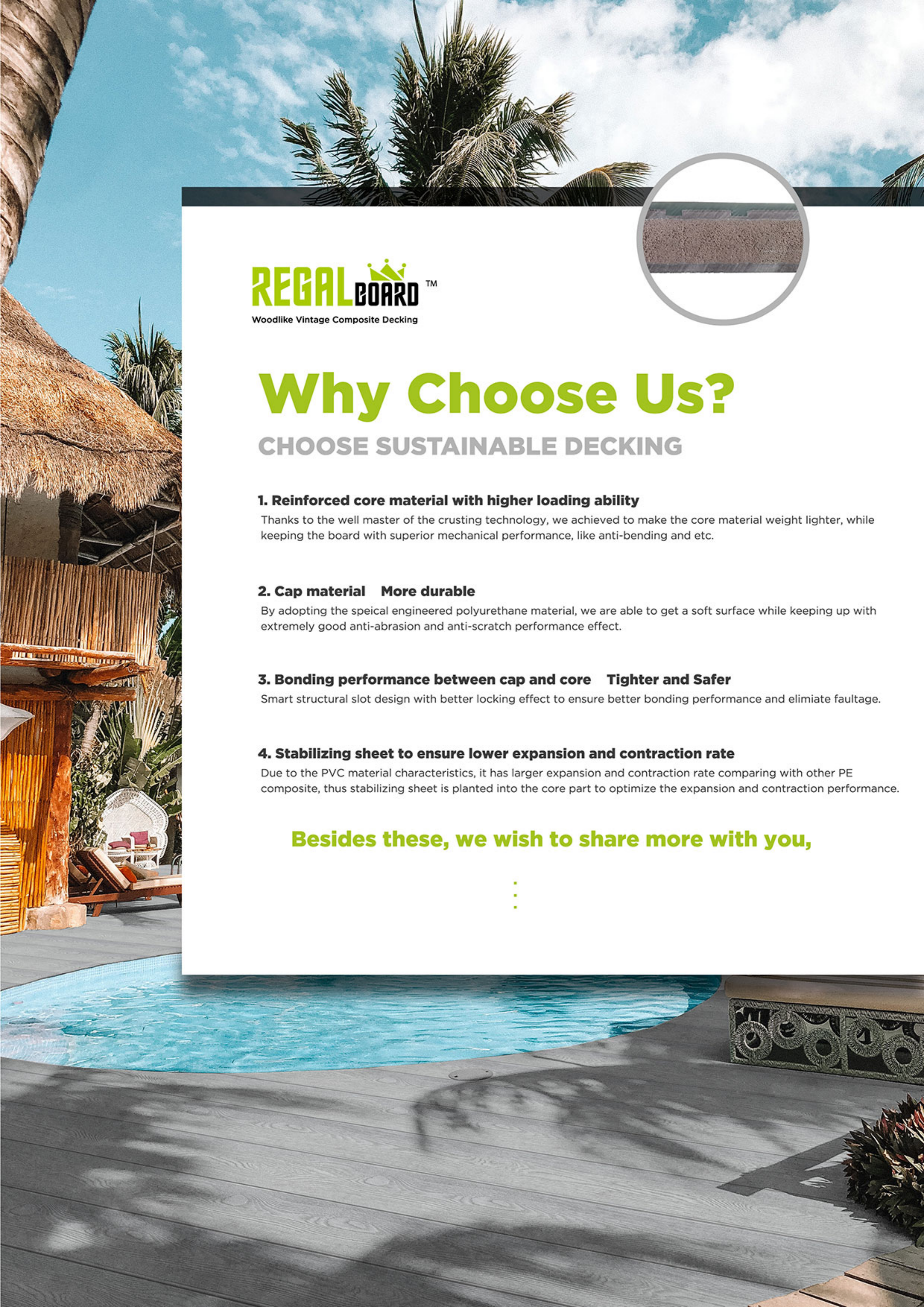
Smart structural slot design with better locking effect to ensure better bonding performance and elimiate faultage.

4. Stabilizing sheet to ensure lower expansion and contraction rate

Due to the PVC material characteristics, it has larger expansion and contraction rate comparing with other PE composite, thus stabilizing sheet is planted into the core part to optimize the expansion and contraction performance.

Besides these, we wish to share more with you,

⋮





Rot&Crack resistant

The material is free of plant fibers, which makes it get rid of termites, rot, or fungi issues.
No fiber for core, with less moisture absorption rate to ensure no crack or split happened to your deck.



Friendly to the family, make you can really enjoy your outdoor leisure time

Due to the soft PU material characteristics, the board offers elastic comfortable feeling, which ensure no harmless to Children or drawback to old consumer



ADVANTAGES OF REGALBOARD DECKING



DISTINCTIVE GRAIN PATTERN
Grain moulded from real wood species



RELIABLE DURABILITY
Reinforcement technology tremendously optimised the board mechanical performance



LOW-MAINTENANCE
The look of timber , without the constant upkeep



SLIP RESISTANT
Safer , children and old people friendly



EASY & EFFICIENT INSTALLATION
No clip needed , screw invisible solution



ROT & CRACK RESISTANT
Free of plant fibers , to avoid moisture , termites , mould , fungi



FRIENDLY TO BAREFOOT
Engineered polyurethane material with soft surface



MANUFACTURED WITH SOLAR ENERGY
Art&Craft is fully committed to offering you a product that's green from start to finish

COLOR

Inspired by natural timber tones, Regalboard is able to carry out delicate deckings with both natural grain appearance and vivid color options. Up to your preference, Regalboard is always ready to offer distinctive customized designs with great pattern and color flexibility.



FINISH (part of non-repeatness grain patterns)

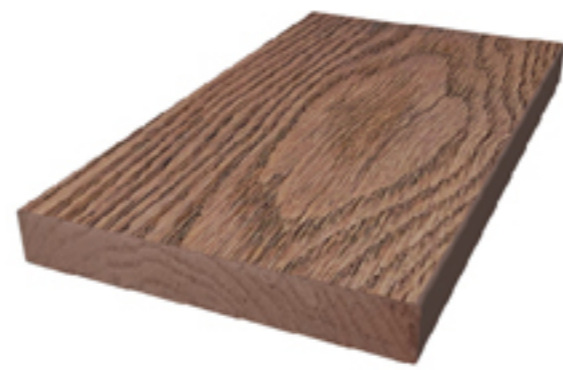


PROFILE

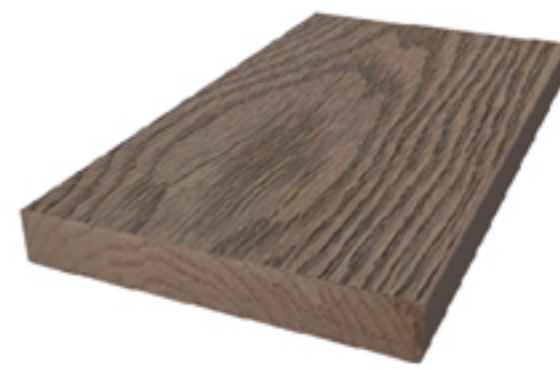
Main Board (175x22mm)



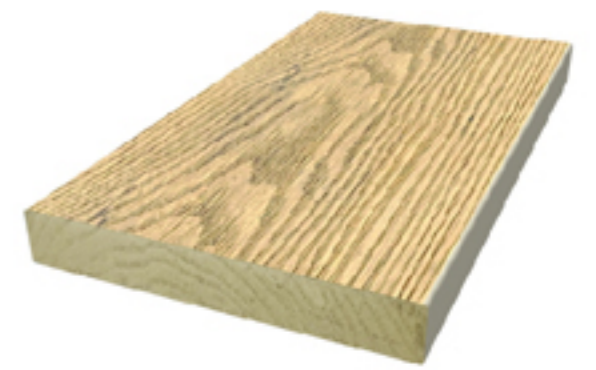
RC01



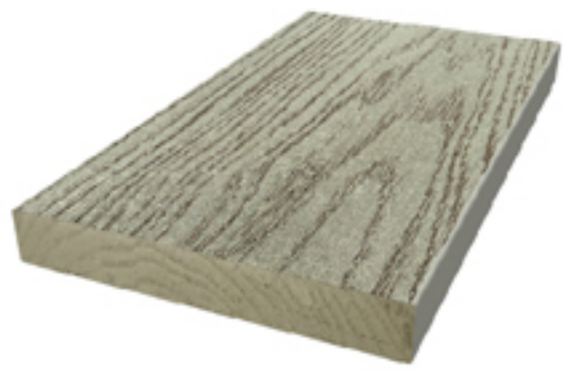
RC05



RC07



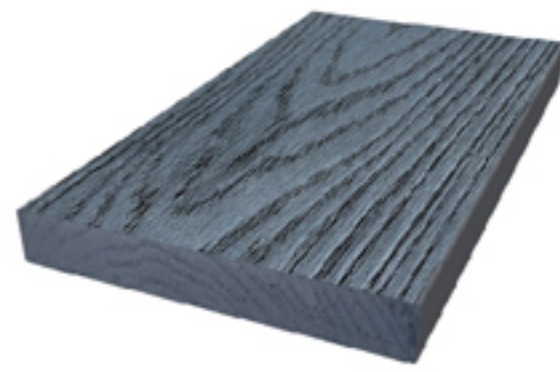
RC03



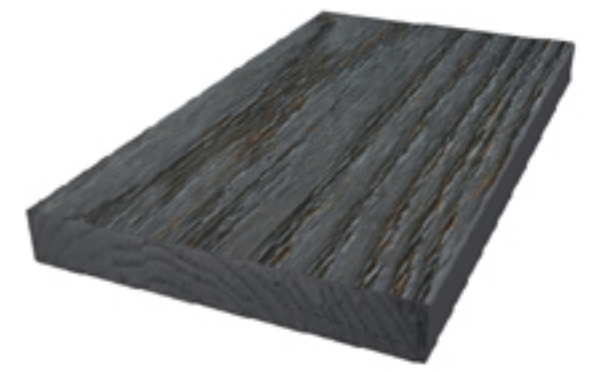
RC04



RC10



RC11

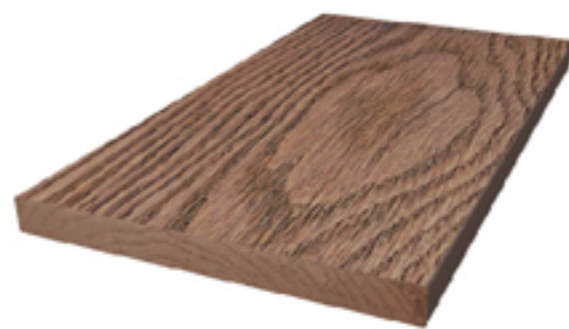


RC02

Trim Board (185.5x16mm)



RC01



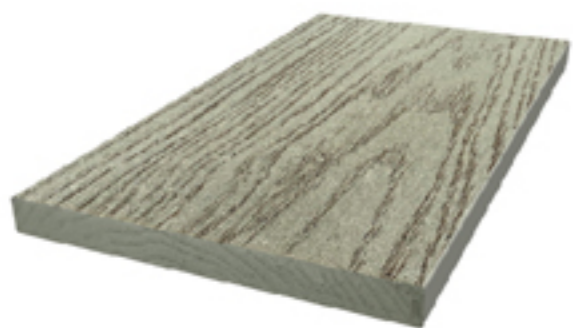
RC05



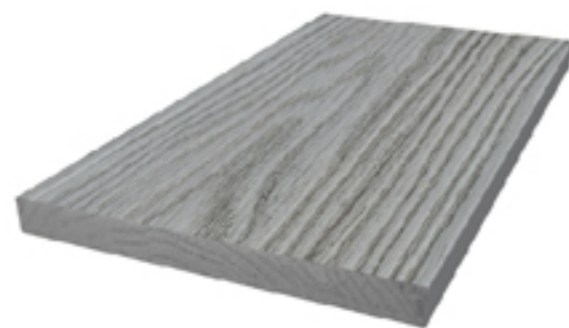
RC07



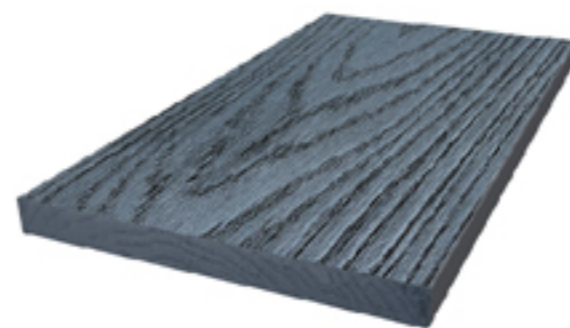
RC03



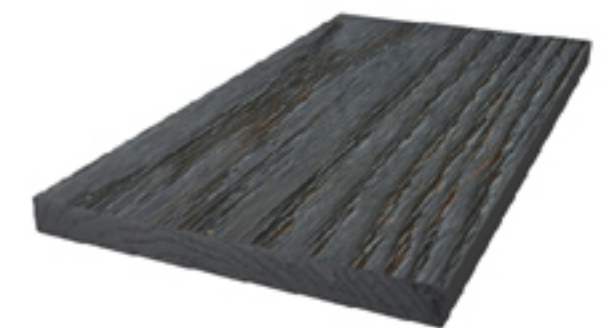
RC04



RC10



RC11



RC02

Edge Board (48x22mm)



RC01



RC05



RC07



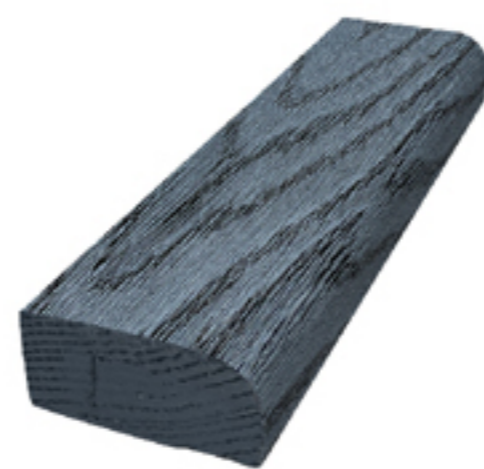
RC03



RC04



RC10



RC11



RC02

More RegalBoard, Less Waste

*Turn the waste to wealth

Our RegalBoard core material is with more than 30% recycled PVC material from wasted SPC flooring, window/door frames and etc. These wasted PVC material are ground and then turned into a mechanical blend to be reused for extrusion. Every 1000kg RegalBoard you bought means a 300kg PVC waste material recycled



*Recyclable product, sustainable and eco-friendly



90% of our RegalBoard material is recyclable, which can be collected and reprocessed for reuse to achieve sustainable and eco-friendly product circle life.

Recyclable, Sustainable

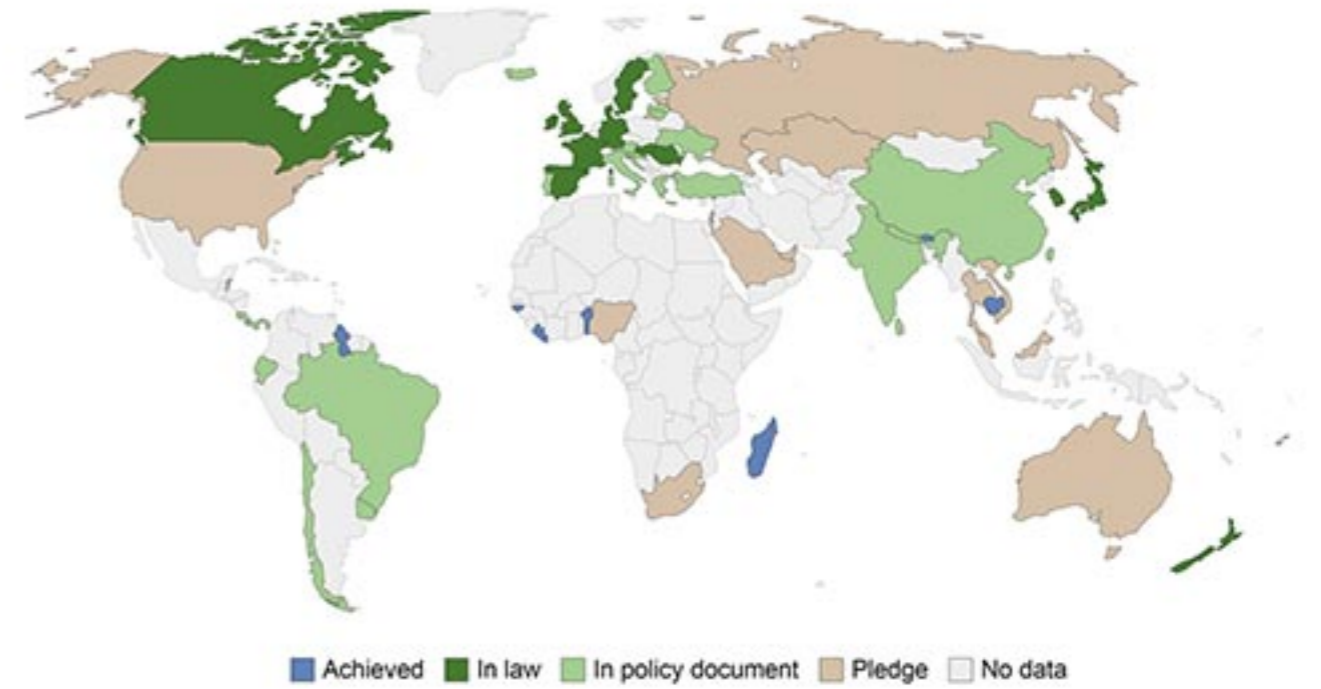
More RegalBoard, Less Carbon Emission

The world has come a long way on climate crisis, although over the last several years, we have seen governments around the world desperately grappling with the development right and carbon emission commitment, the COP26 ensures most of the world is now covered by Net Zero Carbon Emissions commitment. The following are some of the main economies' Net-Zero Target,

- China, Carbon Neutrality in 2060, written in government policy document
- USA, in 2050, pledge
- UK, in 2050, in law
- Germany, in 2045, in law
- France, in 2050, in law
- South Africa, in 2050, pledge
- Australia, in 2050, pledge
- Brazil, in 2060, in policy document
-

Status of net-zero carbon emissions targets

The inclusion criteria for net-zero commitments may vary from country to country. For example, the inclusion of international aviation emission; or the acceptance of carbon offsets.



Source: Net Zero Tracker, Energy and Climate Intelligence Unit, Data-Driven EnviroLab, New Climate Institute, Oxford Net Zero. Last updated: 2nd November 2021. Our World In Data.org/co2-and-other-greenhouse-gas-emissions - CC BY

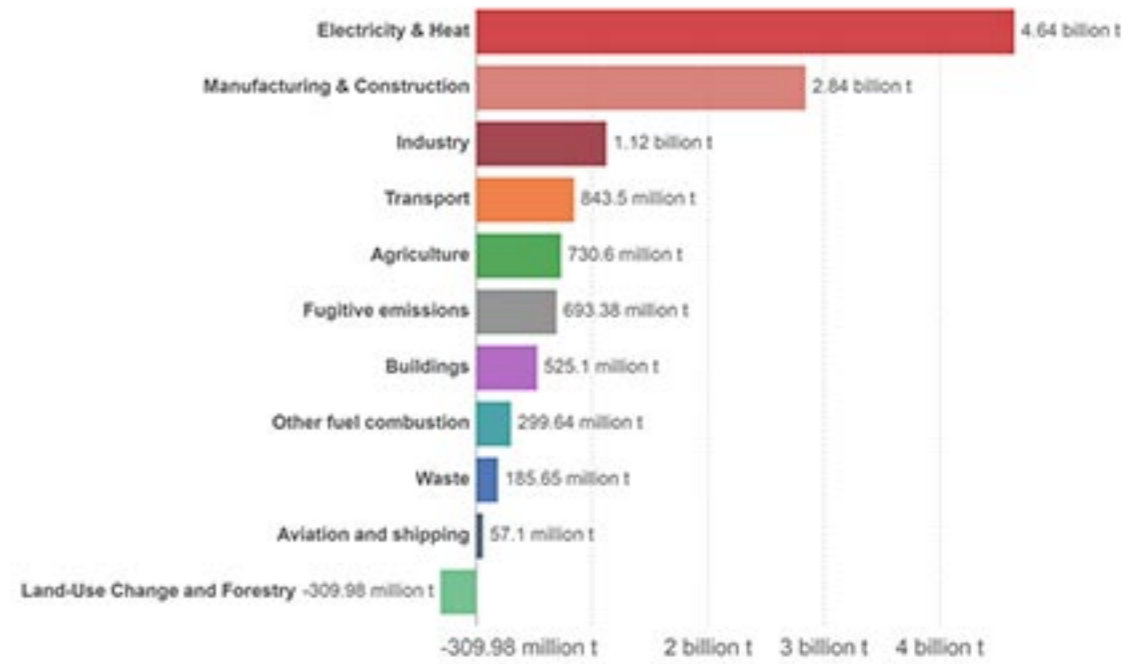
This is an ambitious programme and commitment, which needs every single one of us to be involved to better fulfill it. As a Community of Shared Future for Mankind, we need to have action on energy saving, carbon emission mitigation, promoting circular economy with sustainable, recyclable product.

Green energy, green development

From the right data, it indicates that the main carbon emissions are from the electricity/heat production and manufacturing/construction sectors. Thus, in pursuit of true sustainable development, Sentai built solar panels with an area of about 135,000 square meters on the plant's roof, which can generate 46,000 kiloWatt-hour electricity on a daily basis, which is equivalent to 43 tons of CO2 emissions per day by coal. The solar panels generated green and clean power were used to feed the machines to extrude our RegalBoard, just with the aim of leaving less carbon footprint and create a greener development.

Greenhouse gas emissions by sector, China

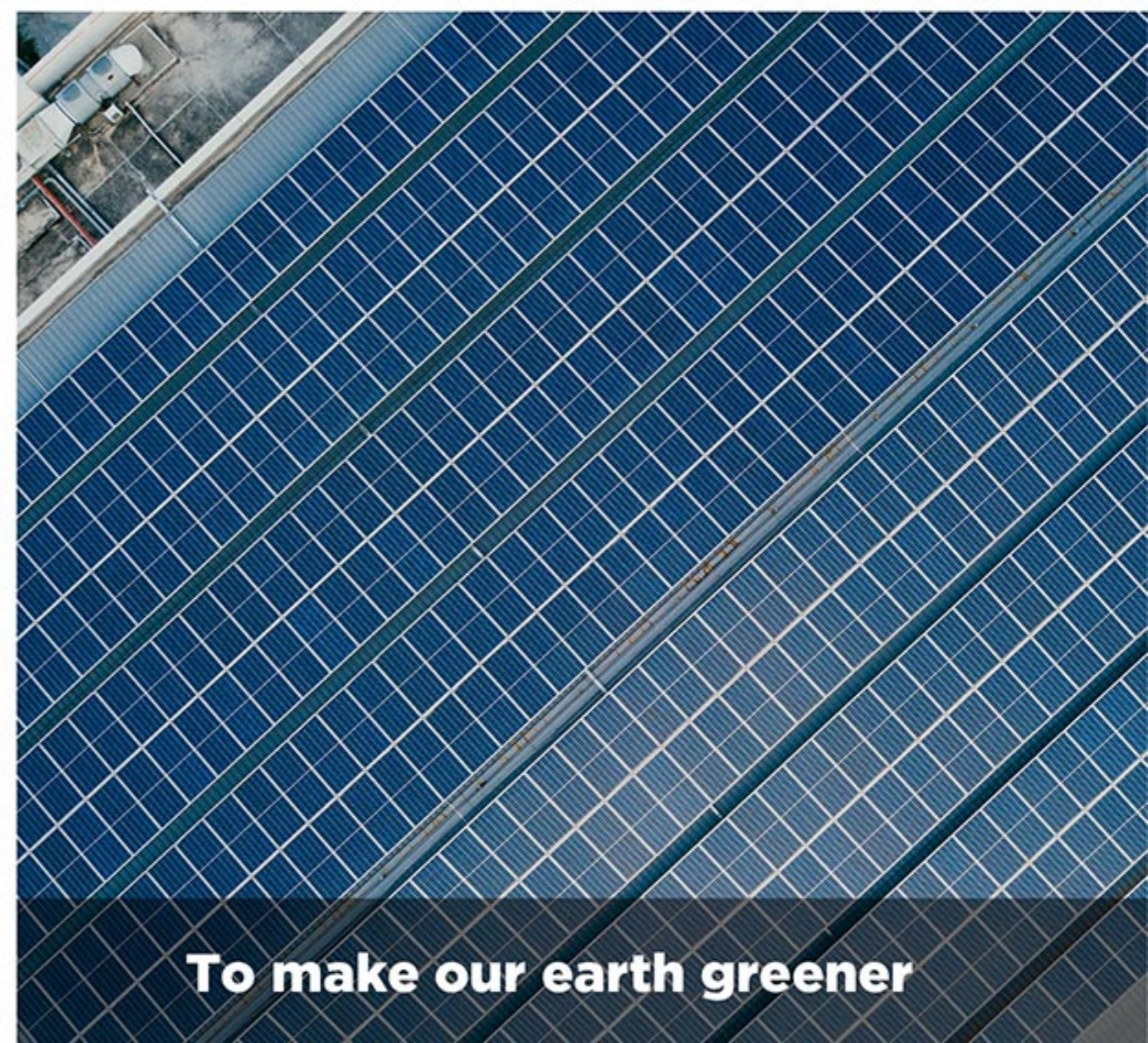
Greenhouse gas emissions are measured in tonnes of carbon dioxide-equivalents (CO2e).



Source: CAIT Climate Data Explorer via Climate Watch Our World Data.org/co2-and-other-greenhouse-gas-emissions - CC BY



Solar power in SENTAI



To make our earth greener



More RegalBoard, Less Deforestation

"As recently as the 19th century tropical forests covered approximately 20 percent of the dry land area on Earth. By the end of the 20th century this figure had dropped to less than 7 percent..."

We endeavored to harvest less forest and keep our planet greener. Thus wood replacement material RegalBoard was developed. Now every 1000kg RegalBoard we produced is equal to save one and half 30-year-old eucalyptus trees, and will reduce 1 m³ deforestation.

Replace the wood, reduce the deforestation

Mechanization in the form of chain saws, bulldozers, transportation, and wood processing has enabled far larger areas to be deforested than was previously possible. So it's really easy to fell the forest, but if you agree with us, please join us to have action for deforestation.

More RegalBoard, Less Deforestation.





Bamboo Composite Decking

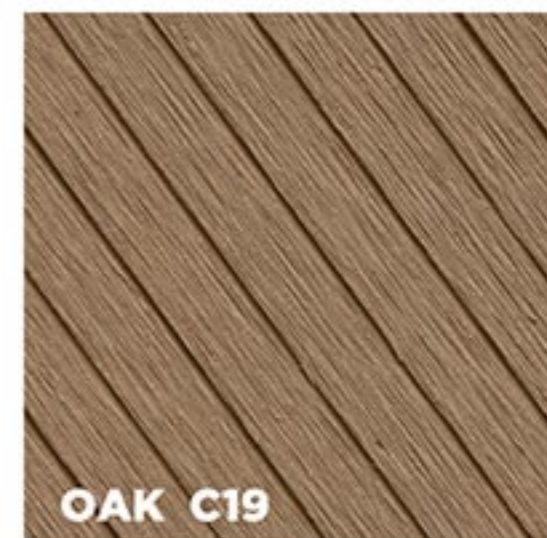
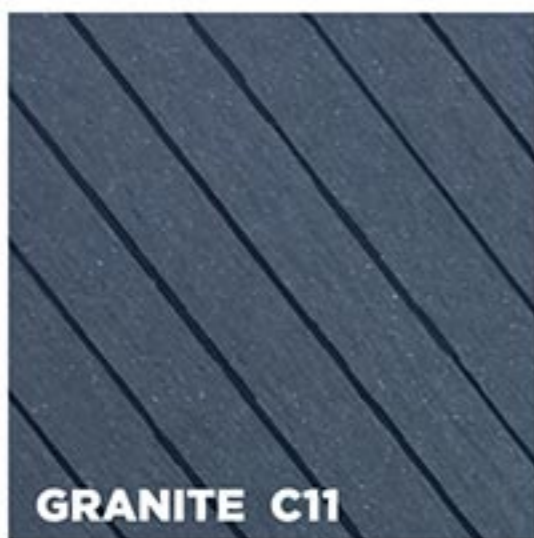
DECKING | CLADDING | FENCING | RAILLING



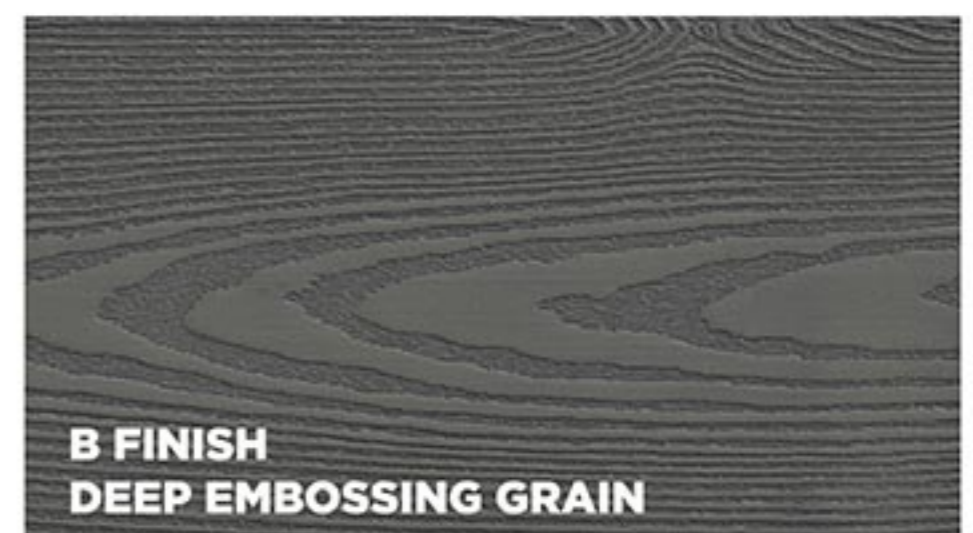
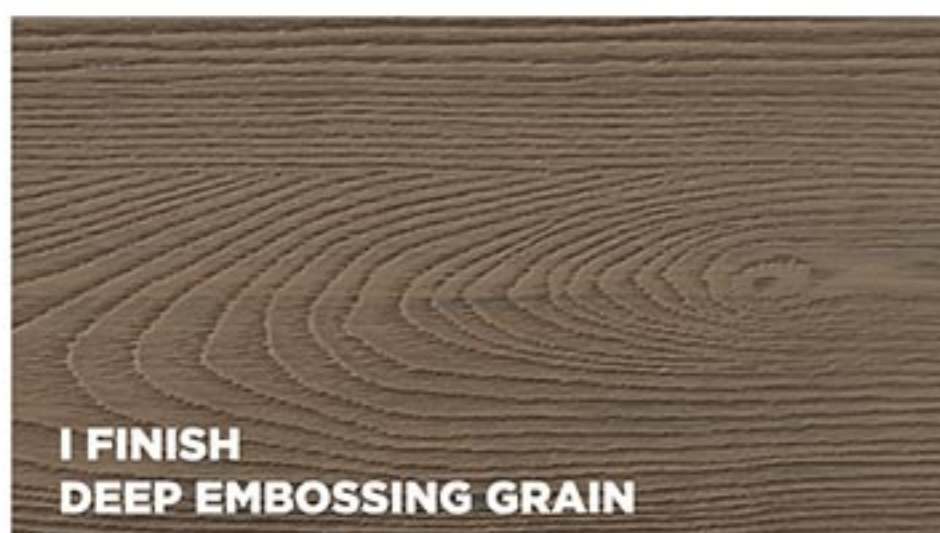


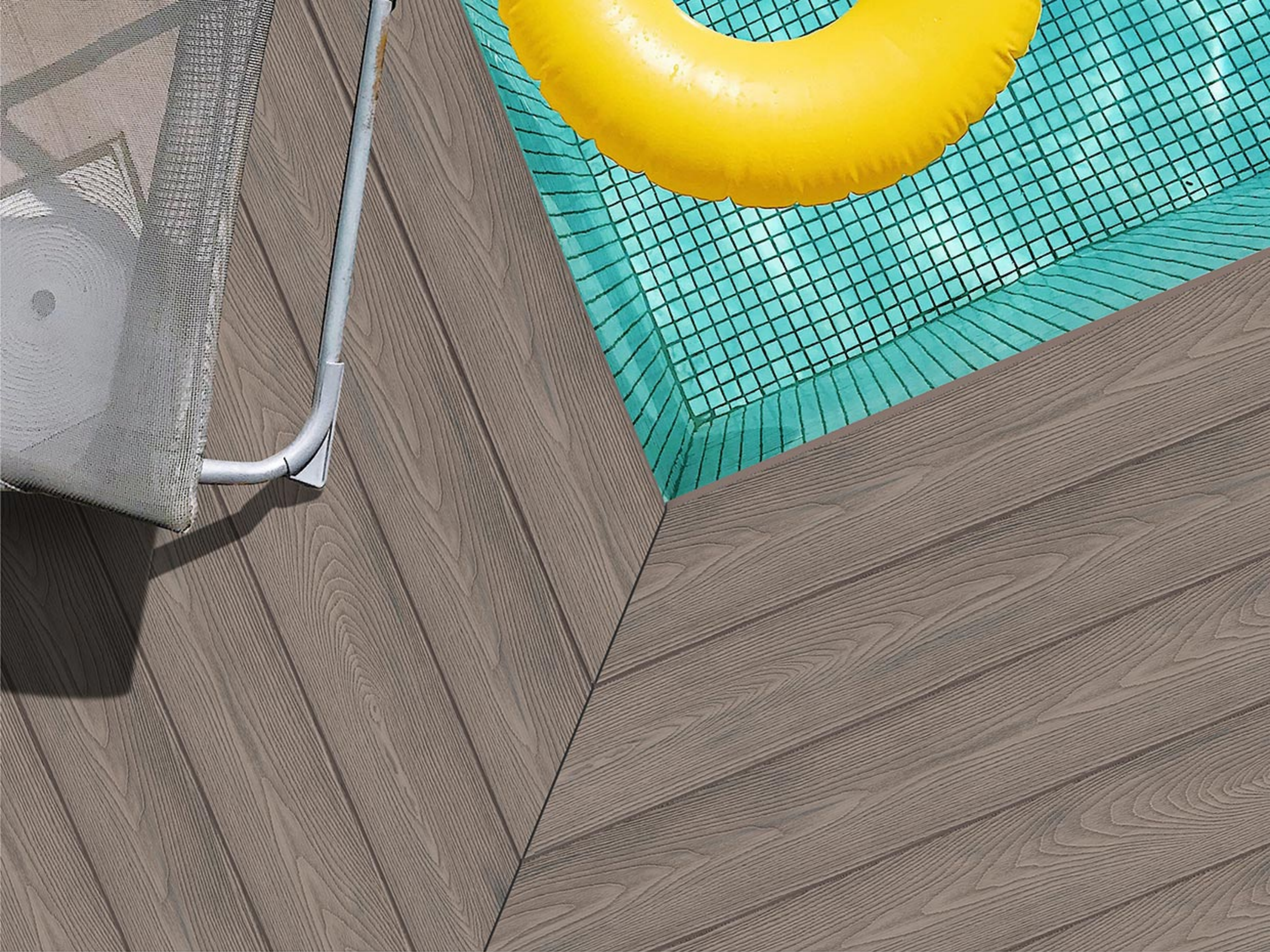
We are dedicated to make Eco-friendly composite outdoor products that are even more beautiful and practical than that of wood. Kindwood is the starting point and basis of composite decking. The excellent dimensional stability and comprehensive resistance allow Kindwood to last long enough in outdoor settings with minimum maintenance.

Solid Colour Range



Finish Range





Profiles Range

SOLID DECKING



Solid, grooved, double sided normal deck boards 140×20mm



Solid, grooved, double sided wide deck boards 180×20mm

CIRCLE HOLLOW DECKING



Circle hollow, grooved, double sided deck boards 138×21.7mm



Circle hollow, grooved, double sided wide deck boards 210×21.7mm

SQUARE HOLLOW DECKING



Square hollow, grooved, double sided deck boards 140×21mm



Square hollow, grooved, double sided deck boards 140×20mm

TRIM



Solid, non-grooved, trim boards 146×11mm

CLADDING



Solid, 145×20.5mm

FENCE



Square hollow, 210×20mm



KINDWOOD®

Bamboo Composite Decking

Dual Color Range



Kindwood dual color tone products with virgin PE on the surface to ensure greater anti-UV performance. The perfect blend of dual color pigment presents natural, stable, and enhanced surface aesthetics

Capping material: Virgin PE



Core material: BPC

- Superior Anti-UV performance.
- Realistic and more natural in appearance.
- 100% recyclable.
- Environmental friendly, saving forest resources.
- Warranty: 5 years for hollow, 10 years for solid board.
- Durable & long-lasting 3D embossing again.
- Easy installation, low labor cost.



Colour Range



PETHMCC19



PETHMCC11



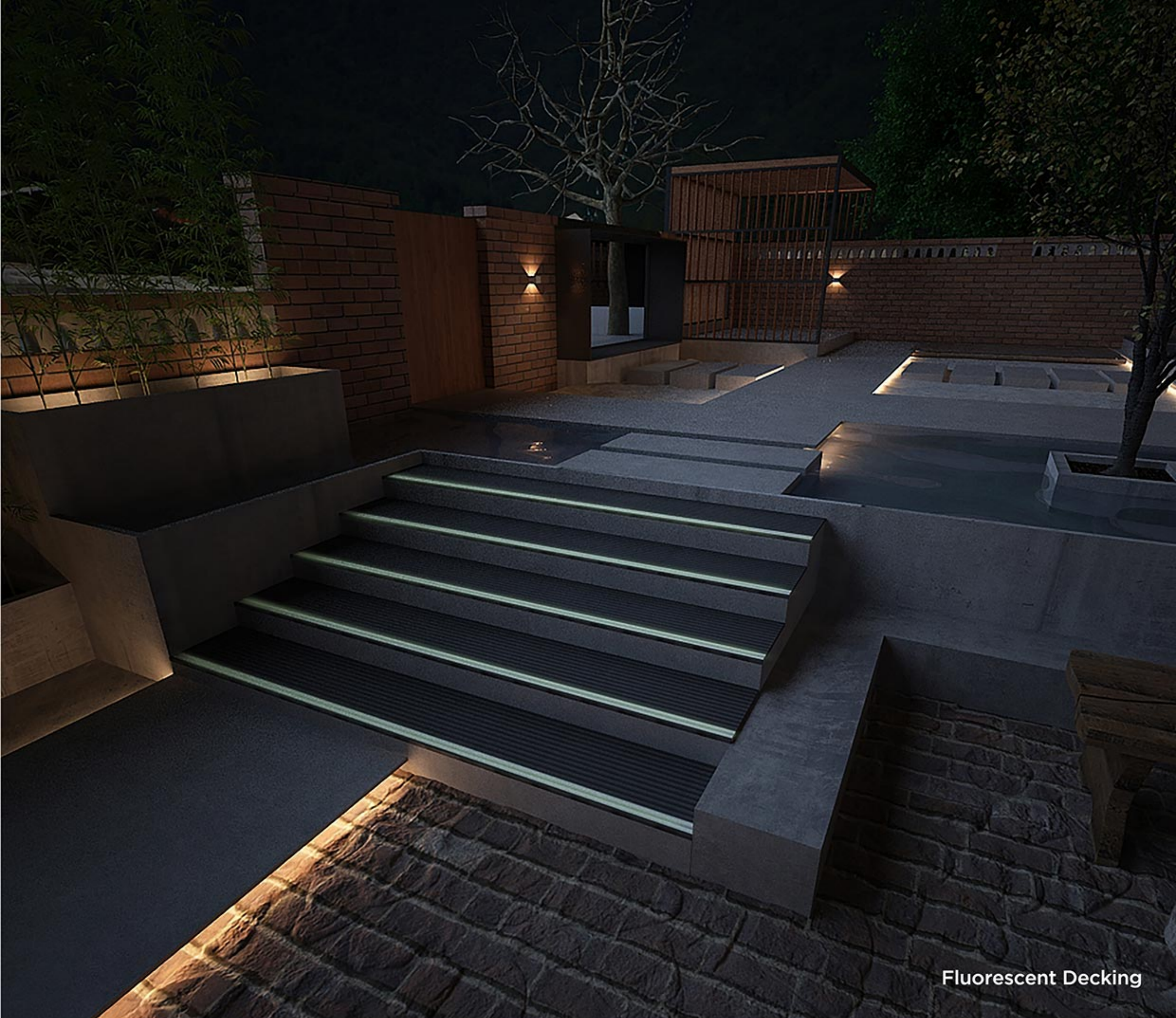
PETHMCC03



PETHMCC04

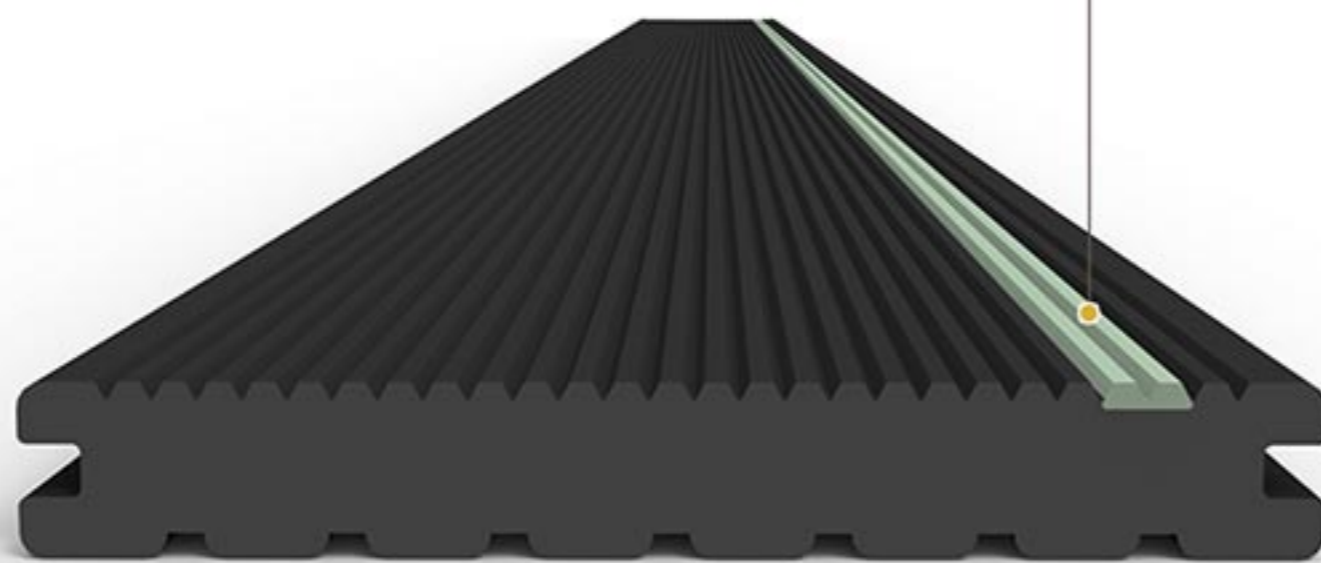


PETHMCC05



Fluorescent Decking

Structural Analysis



FLUORESCENCE
60% bamboo/wood fiber
+30% HDPE
+ 10% additives

The WPC material is extruded by a mixture of 60% bamboo/wood fiber+30% HDPE+ 10% additives under high-temperature and pressure. Such a new recycled material can be widely used in outside settings to place real wood use. The inlaid fluorescent strip is best suited for public outdoor use around swimming pool/stairs/fence/railing/park and etc., that will easily remind the passersby to watch out the foot to avoid any mishap, esp for the old and children at night.



Fluorescent Fence

PRIMOR SHELL™

Armored Composite Decking

DECKING | CLADDING | FENCING | RAILLING



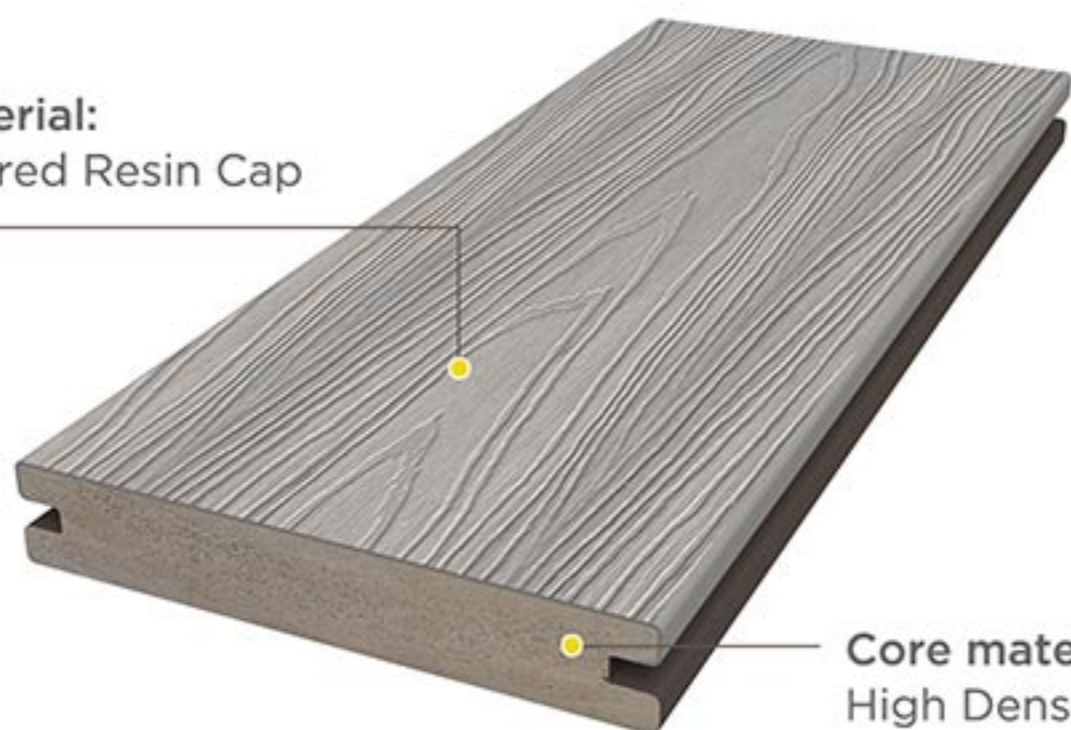


With its great water proof capability and low shrink & expansion rate, Armorshell stands out from many competing products. The unique capping material and the steel brush technology allow better performance and color rendering on board.





Capping material:
High Engineered Resin Cap

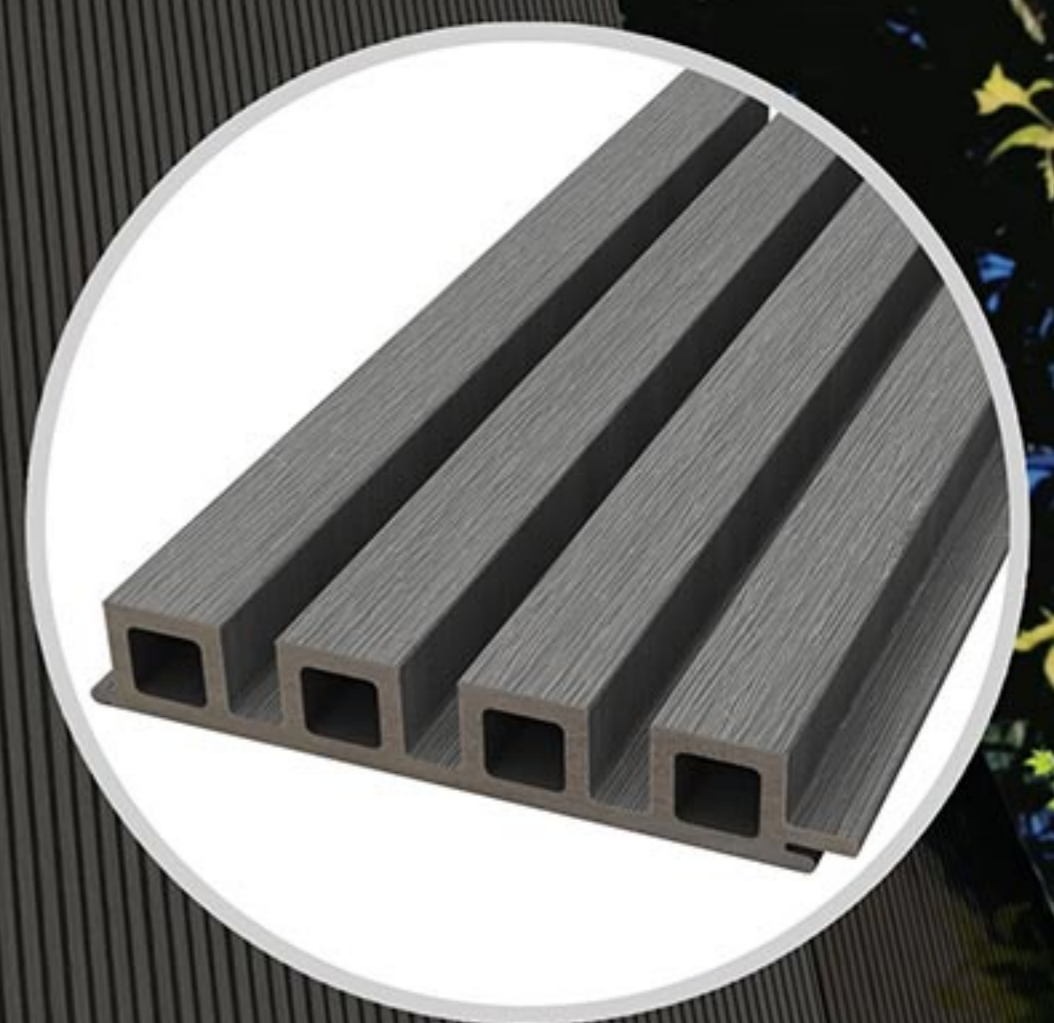


Core material:
High Density Bamboo Fiber

Armorshell has high resistance to moisture, stain, abrasion, termites, weather, etc. Its outside layer acts as a shell armor which makes the board even more durable and extends the lifespan of use.

ARMOR SHELL™

Armored Composite Decking



CASTELLATED CLADDING



CASTELLATED CLADDING

- Set a new fashion, can be applied everywhere from external walls, doors, ceilings to indoor decorations.
- By different color combination, some stunning effect can be achieved, which is definitely an overturn of traditional cladding application.



Euro B class Fire Retardant material also available. A fully Amored composite material to provide you with maximum safety & minimum maintenance.



Fire Retardant test executed according to EN 13823 and EN ISO 11925-2:
Exposure=30s and classified as Class B-s2 according to EN 13501-1 Classification

Colour Range



Profiles Range

SOLID DECKING



Solid, grooved, double sided normal deck boards 140×20mm



Solid, grooved, double sided wide deck boards 180×20mm

CIRCLE HOLLOW DECKING



Circle hollow, grooved, double sided normal deck boards 136×21.5mm



Circle hollow, grooved, double sided wide deck boards 210×21.7mm

SQUARE HOLLOW DECKING



Square hollow, grooved, double sided deck boards 145×23mm

TRIM



Solid, non-grooved, trim boards 150×12mm

TRADITIONAL CLADDING



Solid 201.8×20.5mm

CASTELLATED CLADDING



Square hollow, 159×25.5mm

FENCE



Square hollow, 210×20mm

ATLAS™

— Hybrid Composite of Beauty & Durability —

DECKING | CLADDING | PERGOLA



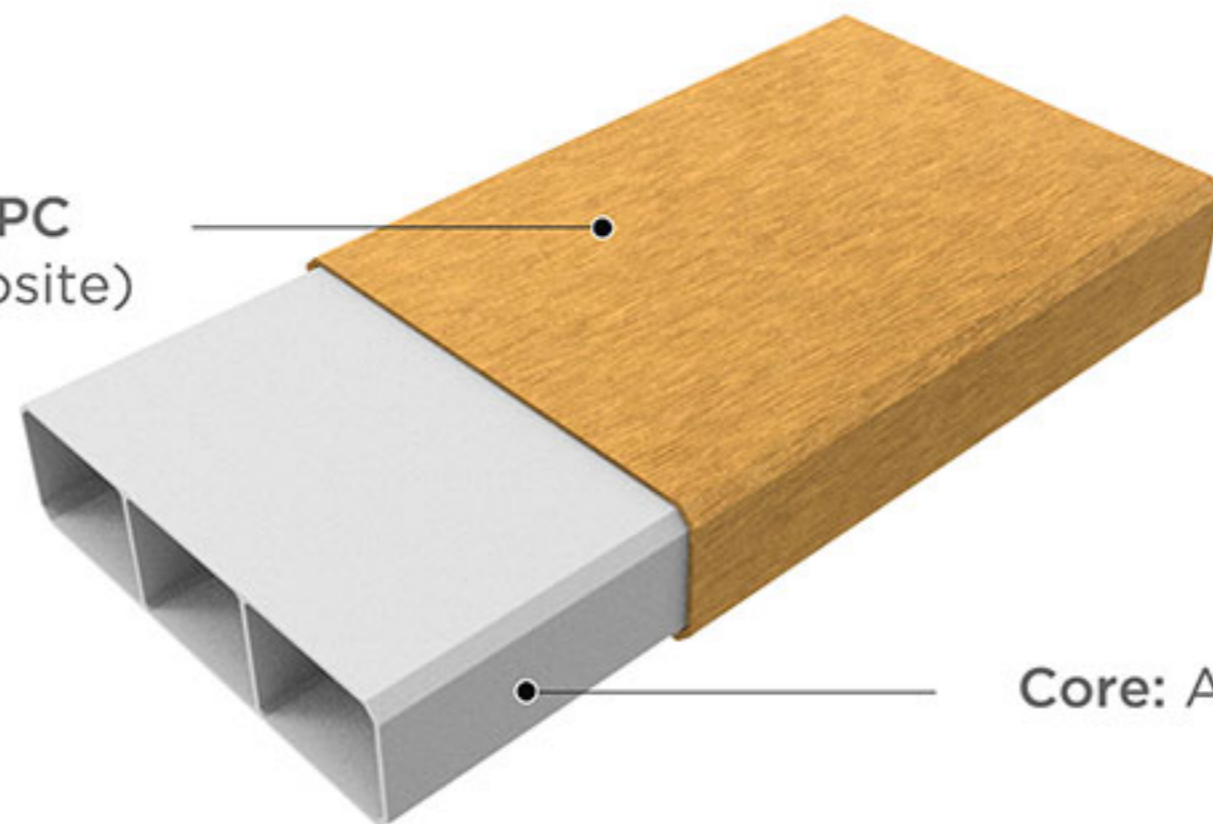


Hard core, esthetic exterior. The fusion of aluminum and WPC, a perfect combination of strength and beauty. With the great mechanical property, Atllas' aluminum alloy core allows the board to reach a much higher degree of rigidity comparing to normal WPC/BPC decking products. So deformation in board is very rare with Atllas if no powerful force is applied. On the other side, Atllas has various delicate colors and patterns exteriorly, which are much more beautiful than regular aluminum products.



Material Analysis

Coating: High-quality BPC
(Bamboo Plastic Composite)



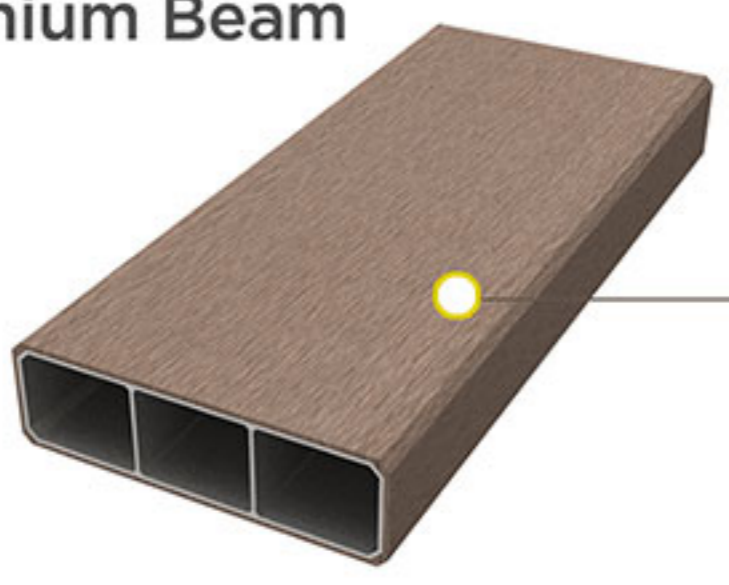
Core: Aluminium Alloy

Aluminium Cladding

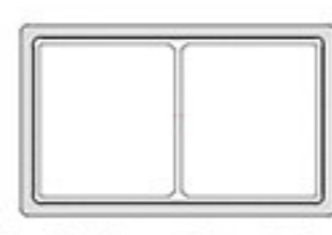


STLS03 185.5x14mm

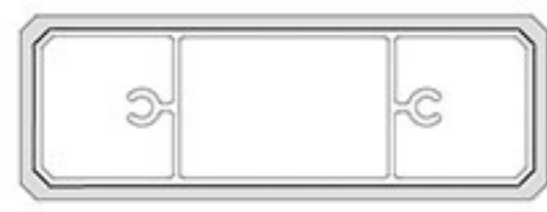
Aluminium Beam



STLS02 150x50mm



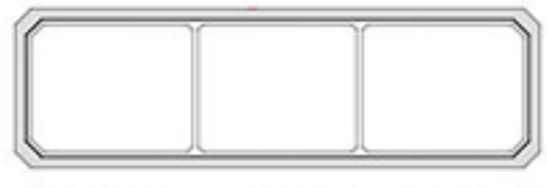
STLS09 50x30mm



STLS05 100x35mm

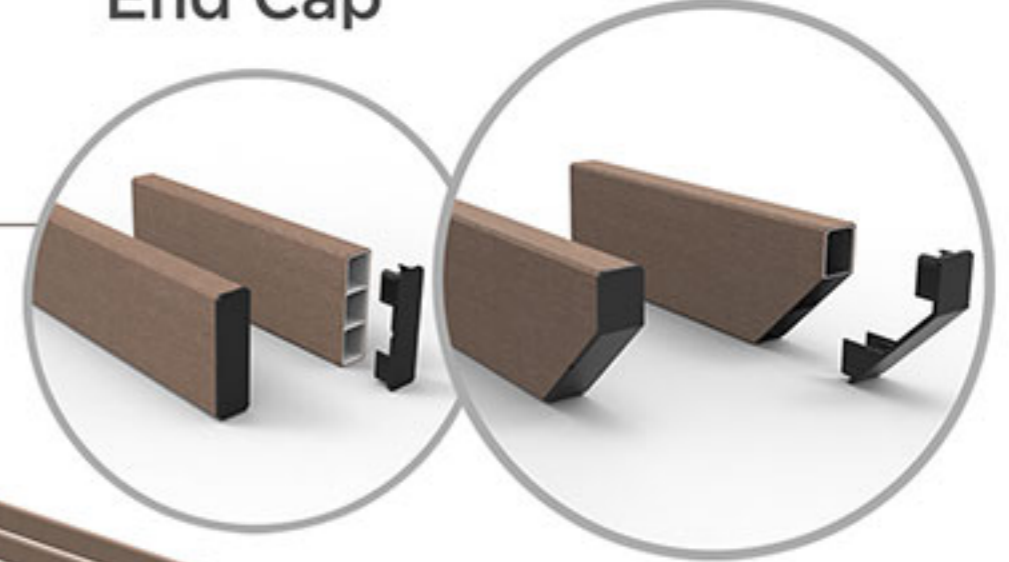


STLS04 127x29mm

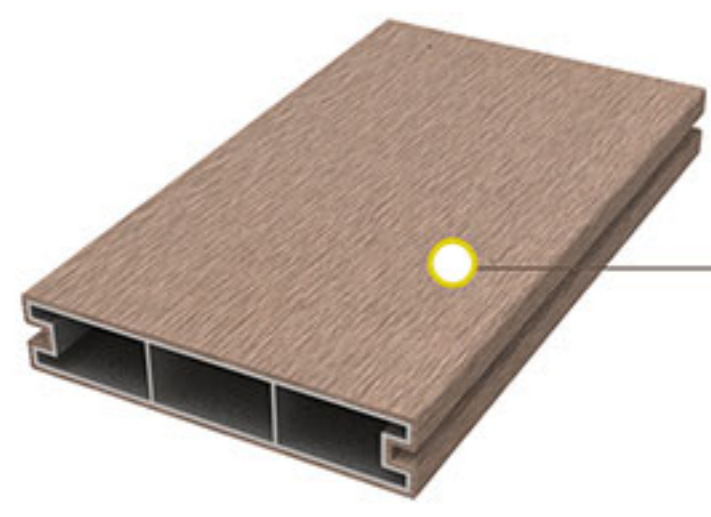


STLS01X 100.5x30.5mm

End Cap

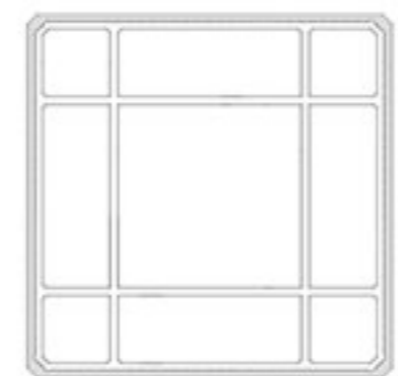
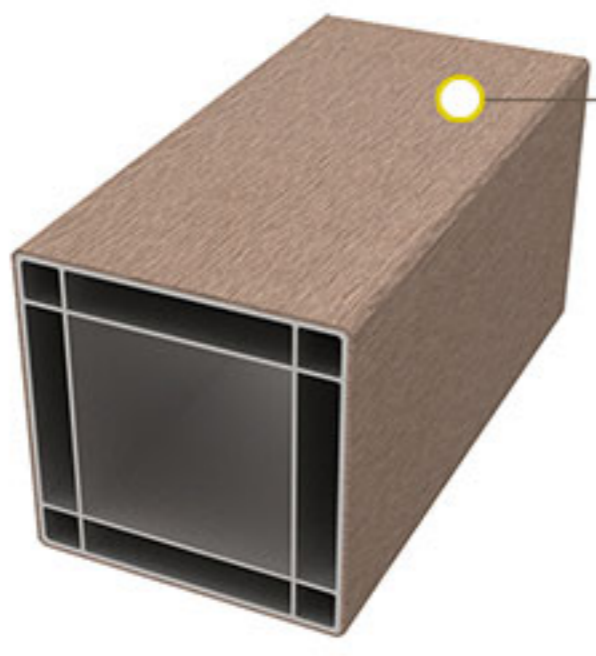


Aluminium Decking

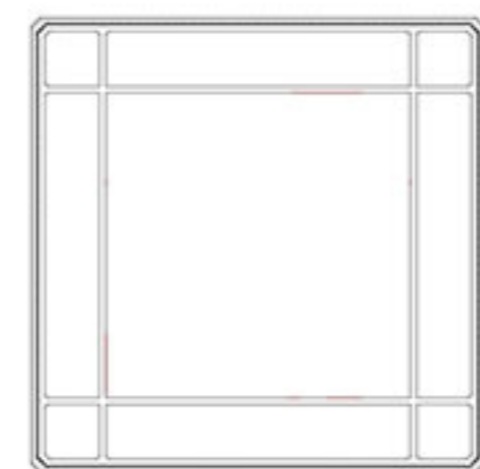


STLS14 145x30mm

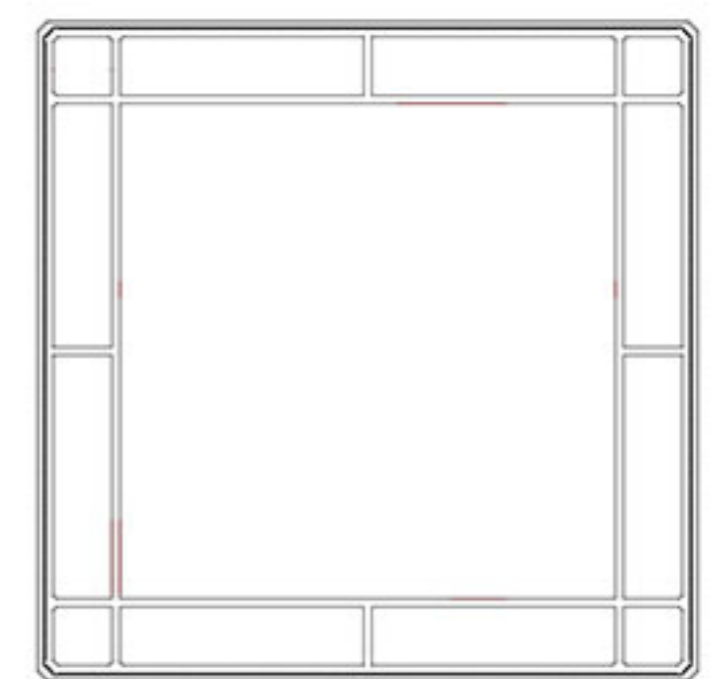
Aluminium Post



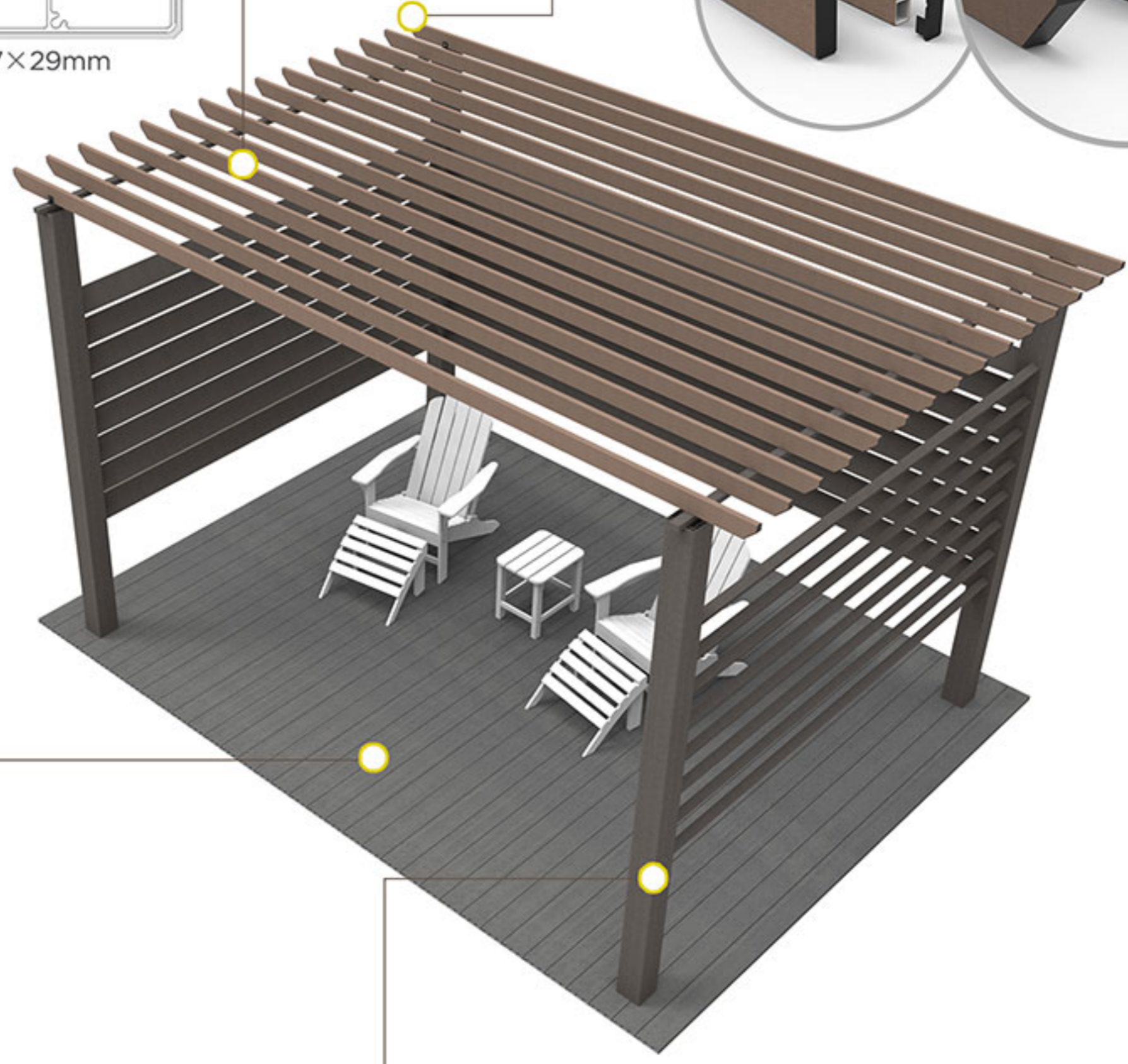
STLS06 97.9x97.9mm



STLS07 151x151mm



STLS08 205.7x205.7mm





Persistent Professional Premium

Worldwide Leading Composite Manufacturer

MINDSPACE

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