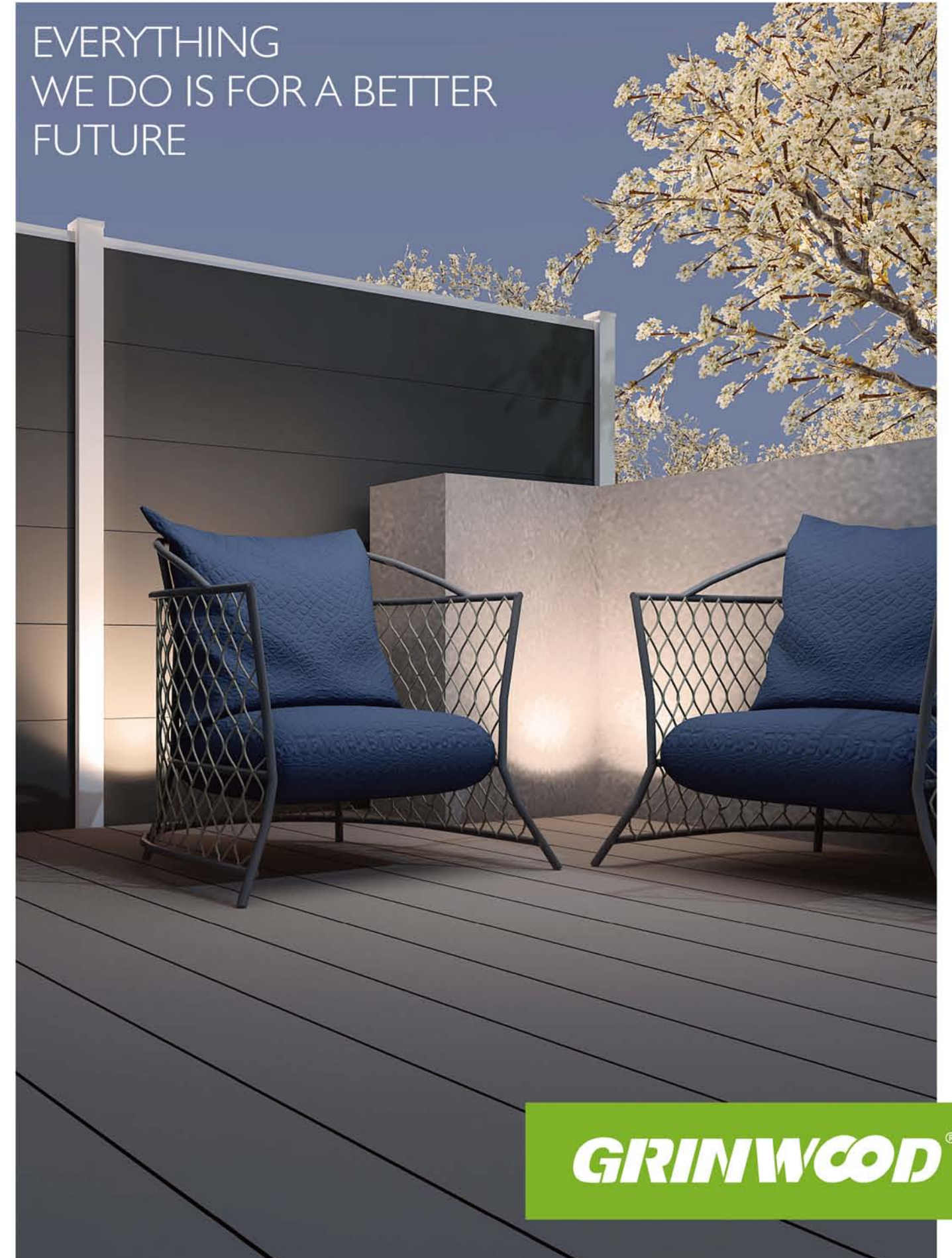


EVERYTHING  
WE DO IS FOR A BETTER  
FUTURE



**GRINWOOD**<sup>®</sup>

**Grinwood WPC Material Co.,Ltd.**

Longquanwu Eco-Industrial Zone, Miaoxi, Huzhou, Zhejiang, China  
ZIP CODE: 313025 TEL:+86-572-2612255 FAX: +86-572-2613308  
[www.grinwood.com](http://www.grinwood.com) [gw@grinwood.com](mailto:gw@grinwood.com)

**GRINWOOD**<sup>®</sup>





# ABOUT US

Grinwood WPC is a superior alternative to traditional lumber and plastic decking products. It mixes recycled PE plastics with cellulose fiber and extrudes them into a variety of profiles, including decking, fencing, wall cladding, etc.

Established in 2011, Grinwood has been developed a lot, due to customers' trust and support, and also Grinwood team's great effort.

Mission statement: To build our business with high quality team members who value honesty and great customer satisfaction along with pride in a job well done, and to treat our team members with integrity and respect.

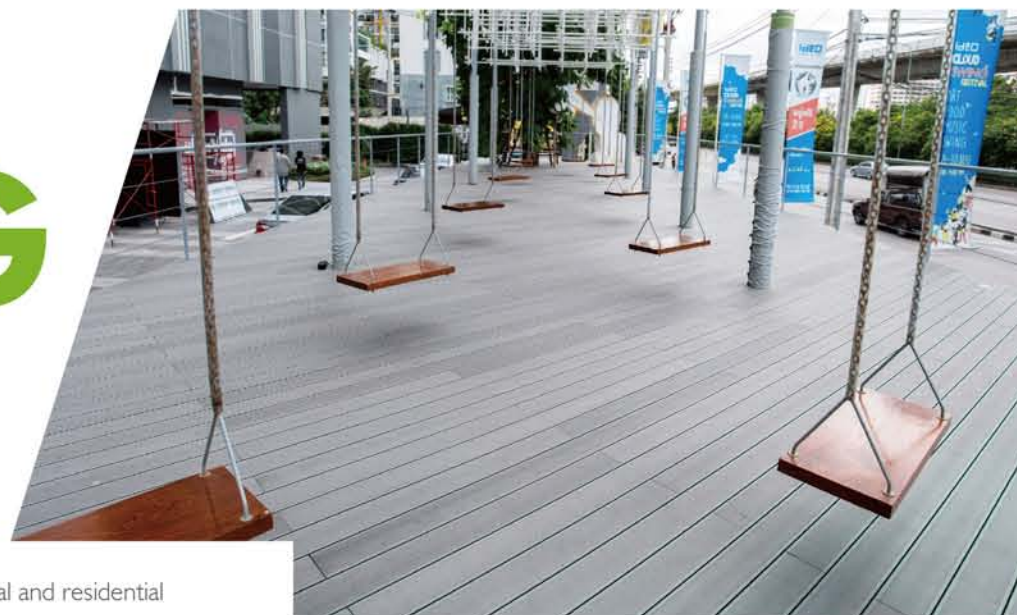
To enhance the environment in which we live, work and enjoy life through our premium products.

Vision: To be the preferred supplier through productions innovation, performance and service. Our products will become an affordable and more desirable solutions to natural products, which will serve to preserve our environment.

Value: Think for customers and beyond customers' expectation. Always stand from the point of customers' view and listen to their feedback, which helps us to finish the work beyond customers' satisfaction.



# DECKING SYSTEM



Grinwood decking system comes in solid&hollow profiles for both commercial and residential applications.

Grinwood decking system offers its consumers an advanced, long-lasting product that out-performs both traditional wood and plastic decking products. Here are the great advantages you can expect with Grinwood WPC



## 1. Low Maintenance

There's a built-in resistance to staining, fading, mold&mildew. Grinwood is your "GREEN" choice if you want to save precious time and money.

## 2. Water Proof

High density composite material provides lower water absorption than wood and other composite products. No rotting or decaying.

## 3. Environmentally friendly

Made from 90% recycled materials. No toxic materials or preservations.

## 4. Insect and termite resistant

Grinwood WPC is unaffected by insects such as termites or beetles.

## 5. Lightweight

Grinwood's hollow core makes it lightweight while proving uncommon strength.

## 6. Easy installation

If you are used to working with wood, you already know how to work with our deck.

## 7. Various colors

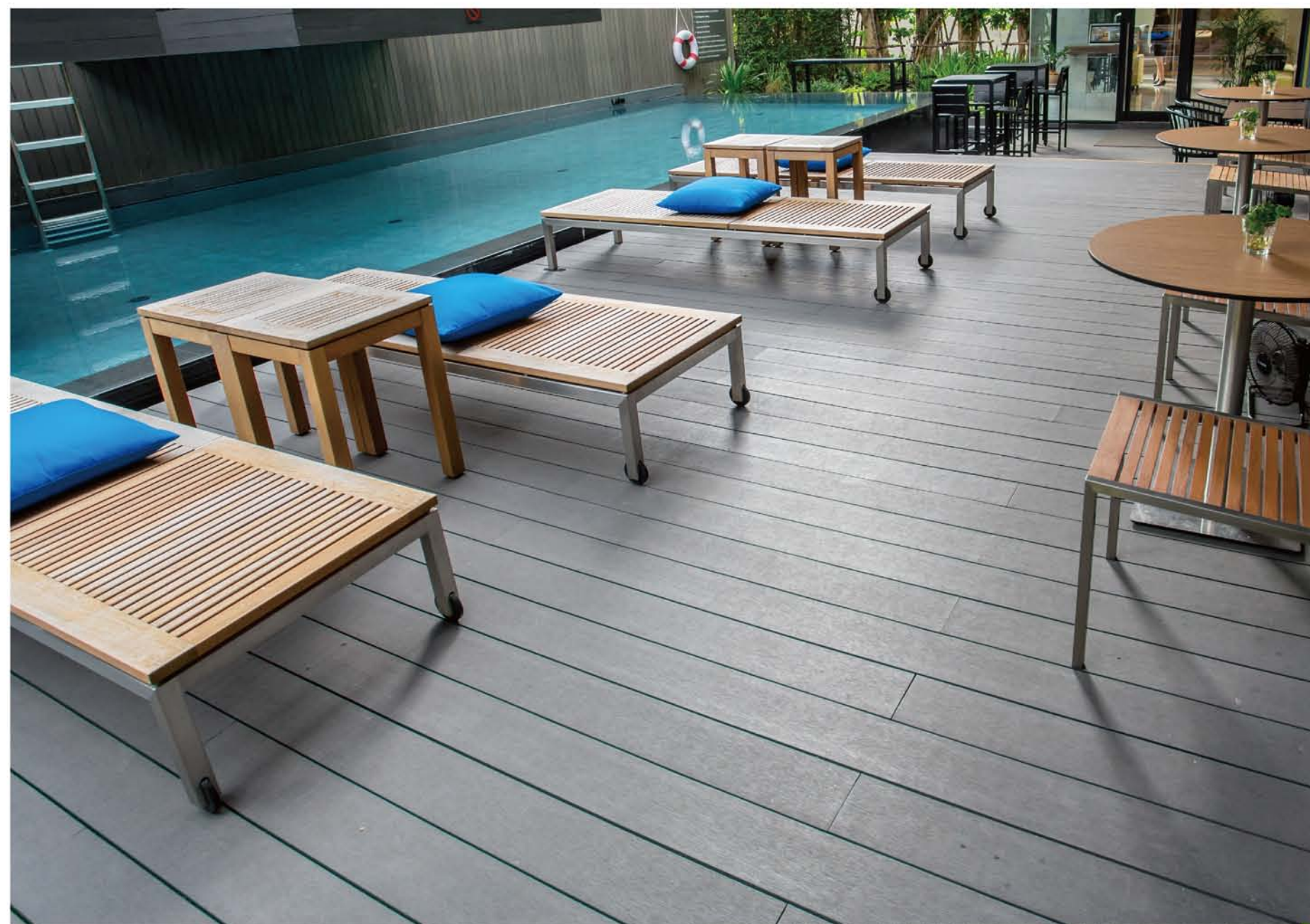
Kinds of natural&beautiful colors available and also can be customized.

## 8. Safe for your family

No splinter, No formaldehyde.

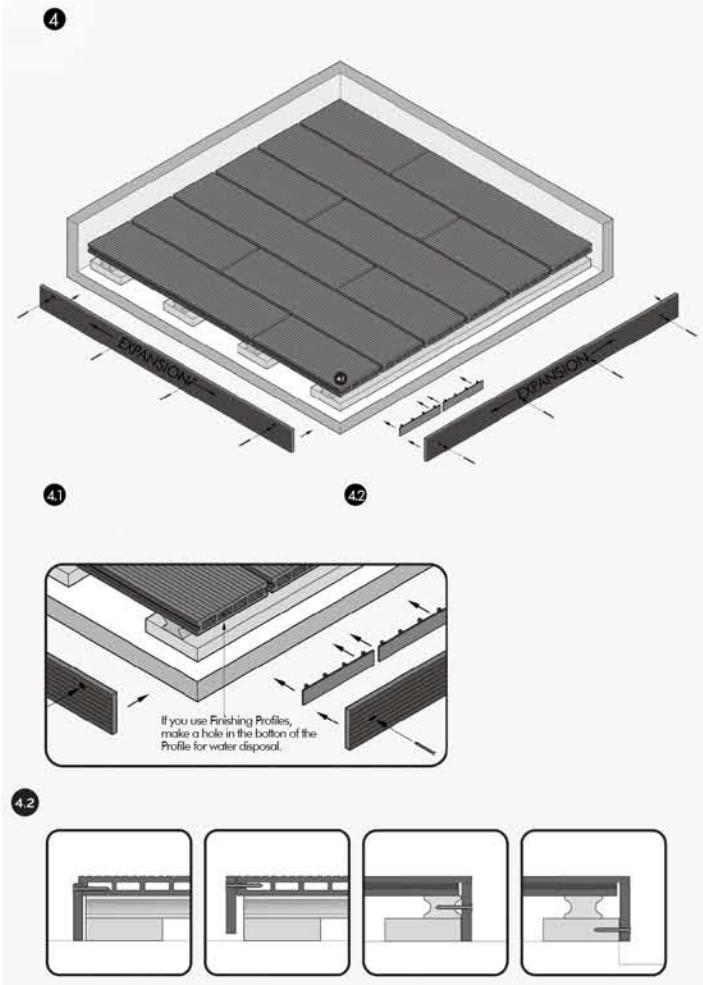
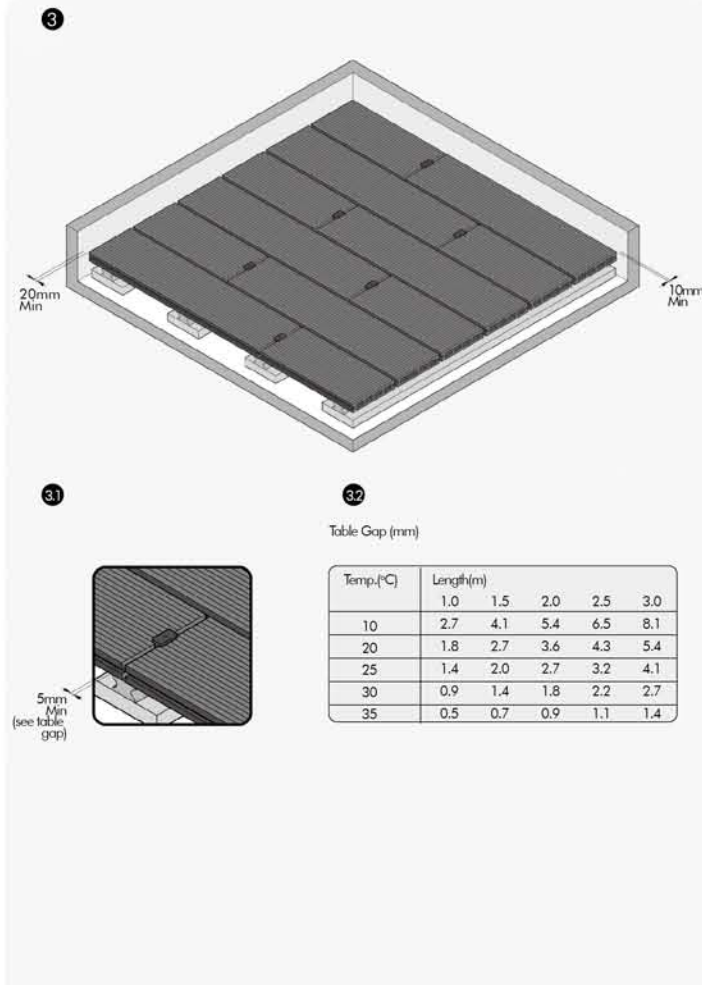
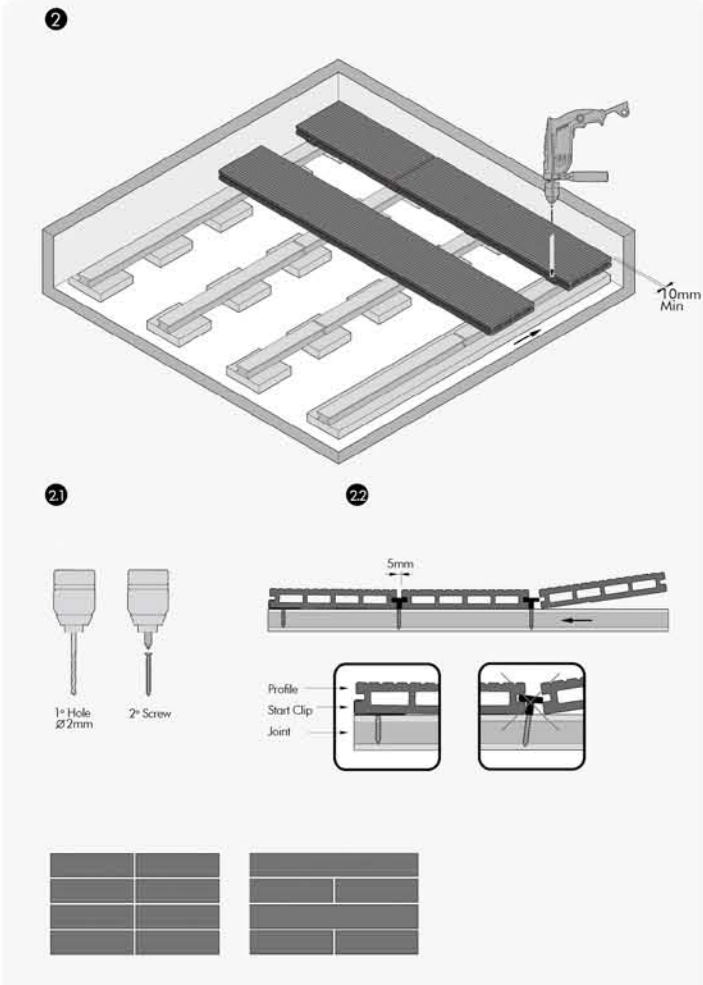
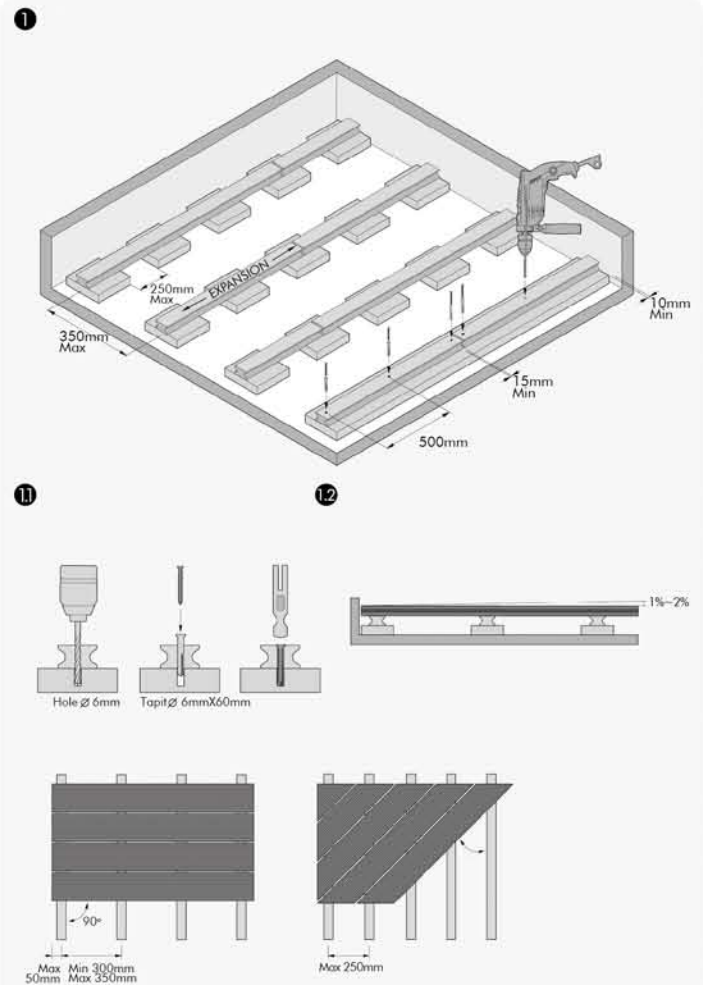
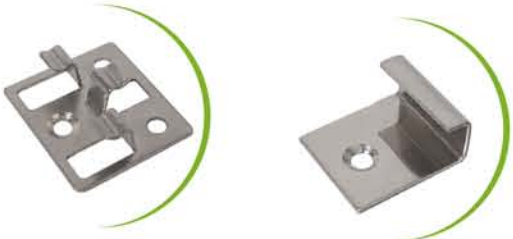
## 9. Long life span

Get used to enjoying a beautiful deck year after year.





# INSTALLATION GUIDE







# WALL CLADDING SYSTEM

Manufactured from a high performance Wood Plastic Composite (WPC), Grinwood wall cladding system compete very favorably on a life cycle cost basis versus traditional materials due to their low maintenance and long life span.

Moreover, Grinwood WPC exterior wall cladding system are designed with imaginative and customer-oriented principle. It is a perfect combination of aesthetics and practicality.

Grinwood WPC wall cladding, as a ideal choice for the majority of cladding applications, with various of colors and texture available, will definitely adds value to your offices, commercial premises, theme parks, any landscape you can think of.

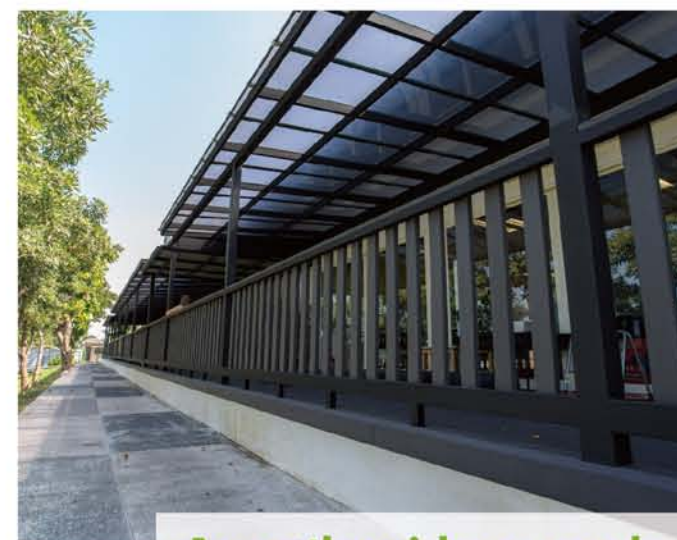




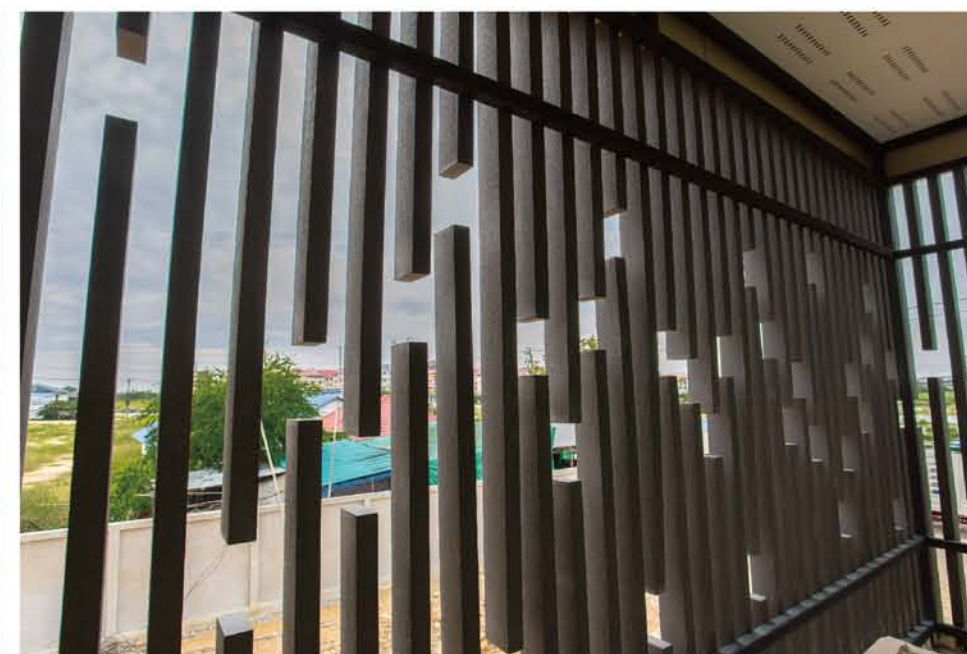
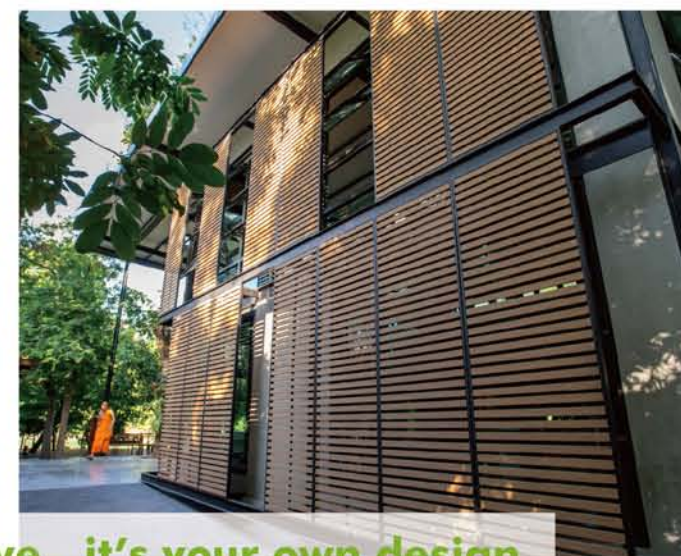
# SOLID AND HOLLOW DECORATIVE LATHS

As a special series, lots of sizes and colors are available, which can be used both indoor and outdoor. They can be used in cafe, in hotel, in garden, any possible areas.

With your unique even crazy thinking, the landscape will be totally renewed with our nice wood plastic composite laths.



Any other ideas you have, it's your own design

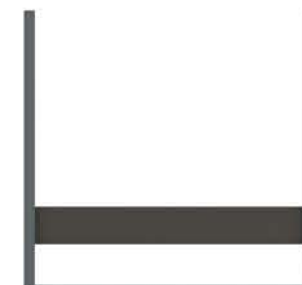




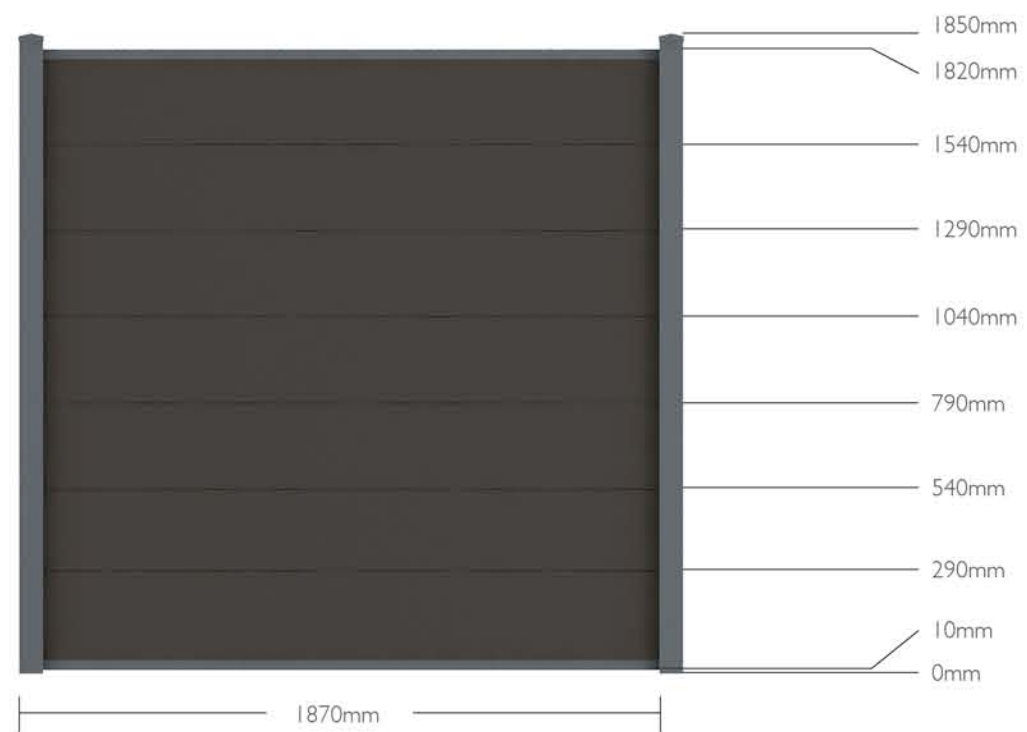


# FENCE

We, Grinwood, a young and enthusiastic team, are always dedicated to new products design and development. For this new fencing system, it only takes a few steps for assembling, which meets the DIY idea of many people nowadays.





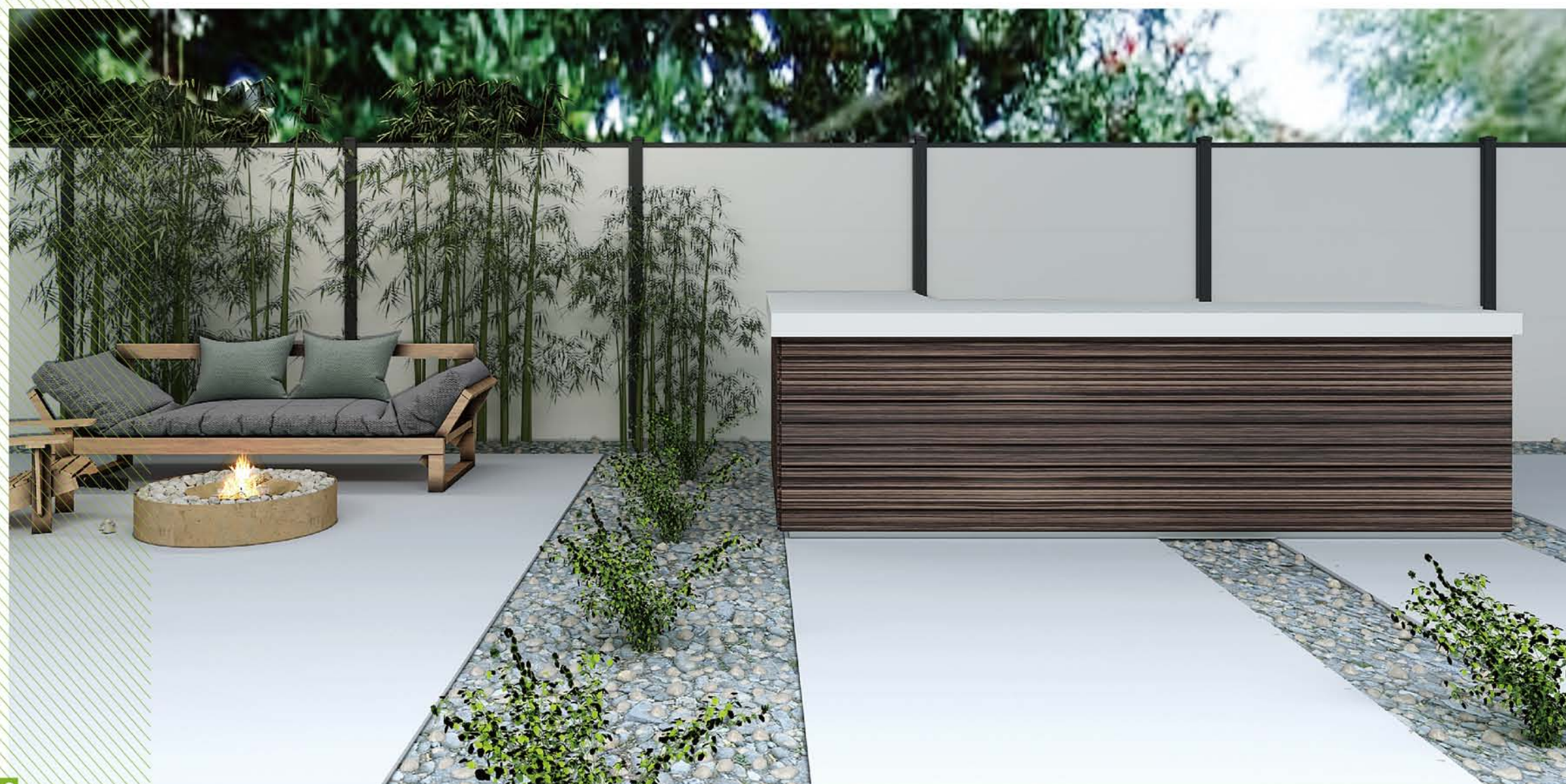
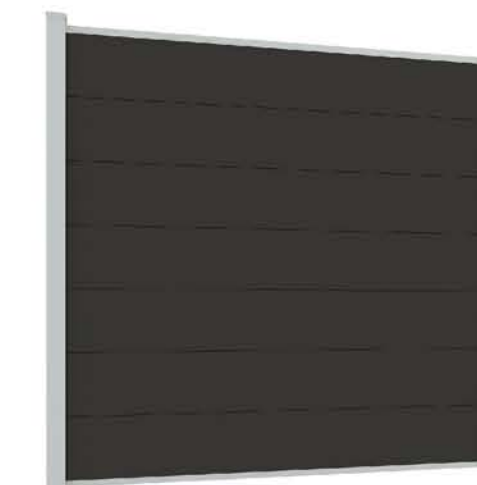


# FENCE

This new system of fencing, by mixing wood plastic composite with aluminum decoration bars, brings this garden fence into its incomparable elegance and simple functionality.

Compared to traditional composite garden fences, it looks more modern and beautiful. And also, because of its easy installation steps, you can even do it by yourselves, which sounds very attractive to many people.

And of course, it owns all the advantage of wood plastic composite products, like more durable and long lasting, low maintenance, termite resistance, etc, which brings you a much easier and colorful lifetime.





■ WPC fence boards 20x258x1840mm



■ Aluminum post 2 slots 70x70mm



■ Aluminum installation set



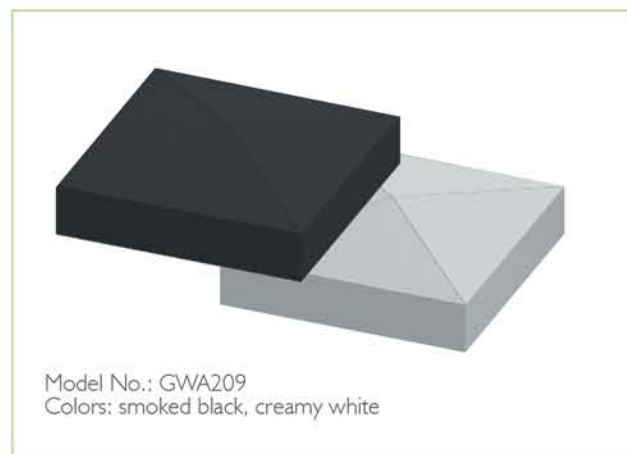
■ Model No.: GF005  
Galvanized steel ground anchor  
70x70x800mm



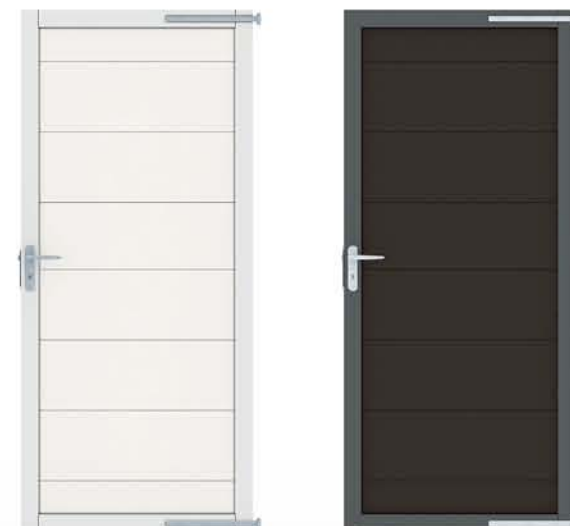
■ Model No.: GF006  
Galvanized steel post holder  
70x70x500mm



■ PE post cap 75x75x23mm



■ Aluminum door with hinge, lock and stopper 900x1800mm



Model No.: GF008  
Colors: light grey, creamy white

# QUALITY ASSURANCE

GRINWOOD® WPC are produced from natural substances that are very gently mixed with high-degree of weather resistant additives like anti-UV agent and antioxidant. All these substances cause to high resistant to moisture and termites, no rotting, no cracking, and color stability of all profiles.

GRINWOOD® producer is fully certificated in quality management, production management and what is really important GRINWOOD® products (materials) are fully certificated by ITC Zlin, that follows all necessary EN norm for building materials. Furthermore INTERTEK testing report is obtained according to ASTM standards.

## Test report for hollow deck obtained from INTERTEK according to ASTM standard.

Test item	Test method	Test result	
Weathering Resistance Test	ASTM G154	Non-exposed specimen	1000h exposed specimen
Flexural strength (MOR)	ASTM D6109	46.8 Mpa	44.0 Mpa decrease 6.0%
Flexural stiffness (MOE)		2.5 Gpa	2.46Gpa decrease 1.6%
Tensile strength	ASTM D638	37.2 Mpa	36.8 Mpa decrease 1.1%
Impact strength	ASTM D256	51.6 J/m (CB)	49.1 J/m (CB), decrease 4.8%
Color change grade			Gray Scale 2-3
Coefficient of Linear Thermal Expansion	ASTM D696	8.56x10 <sup>-5</sup> /°C	
Surface Hardness	ASTM D1037	9717N	
RoHS	ROHS Requirement 2002/95/EC	Cd:ND <sup>4</sup> Pb: ND Hg: ND CR <sup>6+</sup> : ND PBBs: ND PBDEs: ND	

## Test report for solid deck obtained from INTERTEK according to ASTM standard.

Test item	Test method	Test result	
Water absorption/ Thickness swelling	ASTM D1037-12 Method B	Moisture content before immersion	0.17%
		Moisture content after immersion	0.31%
		Water absorption (24h)	0.14%
		Thickness swelling (24h)	0.37%
Flexural Properties	ASTM D6109-13 Modified	Modulus of Rupture	47.8 MPa
		Modulus of Elasticity	4477 MPa
		Uniform unadjusted allowable Load	49.6 kN/m2



Test Report done in Europe

Technical characteristic	Unit of measure	Values	
		Required(declared) value	Determined value (average value)
Shrinkage {at 100°C, 60 min, longitudinal direction)	%	Max. 0,2	0.05
Impact strength (resistance to impact by falling mass in the cold)	% damaged test specimens	Max.10	0
Slipperiness (coefficients of friction) (surface with fine grooves)		Min. 0.3	Coefficient of friction - surface with fine grooves) (average value of whole set): -Static on dry surface: 0.40 -Kinetic on dry surface:0.56 • Static on wet surface: 0.46 • Kinetic on wet surface: 0.47
Swelling in water (28 days, 20°C)	%	Max. 5.0	4.6
Flexural strength after moisture resistance test by cycling (residual flexural strength)	%	Max. 5.0	4.4
Swelling up after moisture resistance test by cycling	Mpa	Min. 23	26.7



DESIGN



HIGH DURABILITY



FULLY WATERPROOF



HIGH MECHANICAL RESISTANCE



HIGH RESISTANCE TO USE



EASY CLEANING AND MAINTENANCE



EXCELLENT RESISTANCE TO THERMAL AMPLITUDES




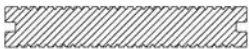









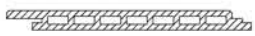



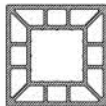

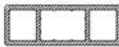








GREAT IMPACT RESISTANCE


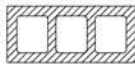



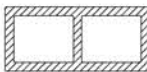

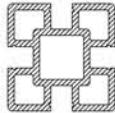

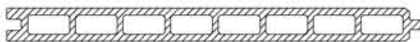



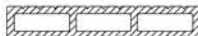



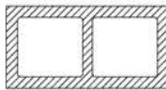



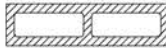




PRODUCT SPECIFICATION

Model No.	Product	Section Drawing	Size(mm)
GW001			150X25
GW001A			150X25
GW001C			150X25
GW001D			150X25
GW001T			150X25
GW002			146x31
GW003A			140X25
GW005			146X23
GW006			140X25
GW007A			135X26
GW008			150X35
GW009			140X20
GW009A			140X20












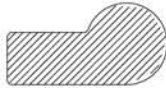














PRODUCT SPECIFICATION

Model No.	Product	Section Drawing	Size(mm)
GW015			150X25
GW010			40X25
GW017			50X40
GW030			50X30
GW031			56X16
GW301			152X12
GW302			160X18
GW206			160X160
GW207			160X55
GW201			120X120
GW215			100X100
GW213			90X90
GW212			90X45
















Model No.	Product	Section Drawing	Size(mm)
GW202			80X35
GW203			51X51
GW205			90X40
GW211			100X100
GW303			258X20
GW210			205X20
GW216			120X20
GW026			101X51
GW028			101X51
GW025			101X26
GW027			101X26
GW015A			151X26
GW029			76X26



PRODUCT SPECIFICATION

Model No.	Product	Section Drawing	Size(mm)
GW032			51X26
GW024			51X51
GW023			39X39
GW022			26X26
GW208			98X32
GW209			57X32
GW012			140X11
GW018			101X13
GW020			97X12
GW013-F1			73X12
GW013			72X11
GW011			146X25

For more sizes, please kindly browse our website. [www.grinwood.com](http://www.grinwood.com)

Product	Model No.	Product	Model No.
	GWA010		GWA202
	GWA014		GWA203
	GWA011		GWA004
	GWA013		GWA205
	GWA019		GWA210
	GWA020		GWA206
	GWA009		GWA208
	GWA008		

For more model, please kindly browse our website. [www.grinwood.com](http://www.grinwood.com)

