



MacroTech

HeBei MacroTech Wood Plastic Composite Co., Ltd

Factory1 : BaiGou New Town, BaoDing City, HeBei Province, China

Factory2 : South of white river ,Shan ban city industrial park ,High-tech district,Chengde City, HeBei Province, China

Tel : +86-312-2897996 Fax:+86-312-2897990

E-mail:kobe@macrotechwpc.com

www.macrotechwpc.com



Made from recycled materials

As our natural resources are limited, we need to protect and recycle for future generations.
MarcoTech WPC Recycling, Environment, Sustainable.



About MacroTech WPC

HeBei MacroTech Wood Plastic Co.,Ltd is a manufacturer of decoration WPC materials for more than 9 years with 56 separate production lines.

Up to now,the annual production exceeds 30,000 tons,and sells to more than 50 countries all over the world. We have convenient transportation access to Beijing Airport and Tianjin port.

MacroTech is the drafting unit of WPC National Standards,has taken through Reach,ASTM,CE,FSC and other certifications.Macrotech dedicated to quality remains the same,focus on details and for the sake of customers.Welcome to visit our factory.



WPC Product Advantages

- Produced of recycle wood fiber and recycle plastic.
- With natural wood grain and wood colors.
- Low maintenance.
- Easy to install.
- Resistant to termite and insect attack, will not split, rot or warp.
- Weather resistant.
- High performance, slip-resistant composite board that will stand years of sun, rain, sleet and snow.



MarcoTech WPC Unique Advantages

- Located in northern of China has relatively less rain. During the production process due to the low water content, the production quality is more stable.
- Co-extrusion fabrics are independently developed and supplied make sure the product quality stability.



CONTENTS

Decking.....1

Fence.....12

Railing.....22

Wall Cladding.....23

Beams.....31



Easy to install



Waterproof



Widely used



Anti-moth



High density



Eco-friendly



Scratch-resistant

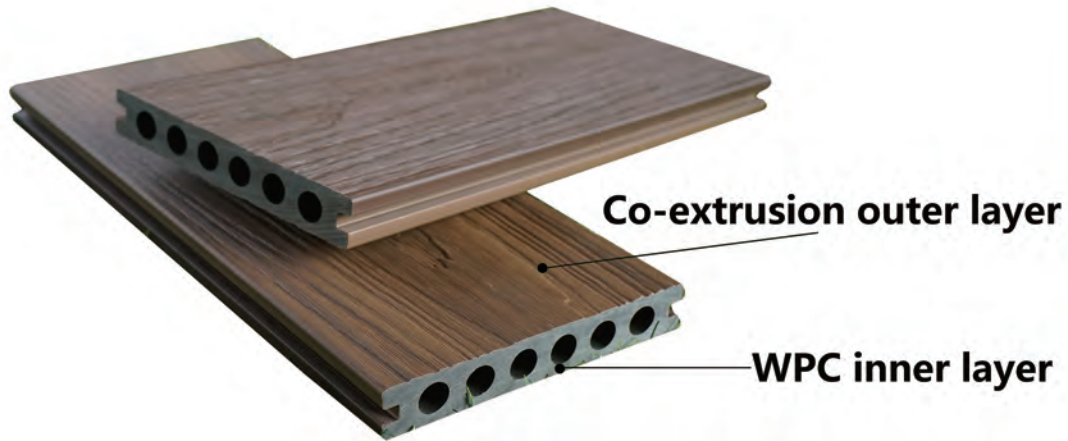


Multi-colors

WPC Decking Co-extrusion

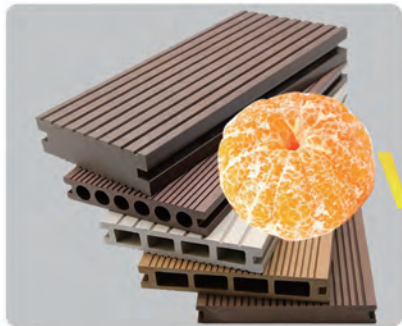


What is Co-extrusion Decking?

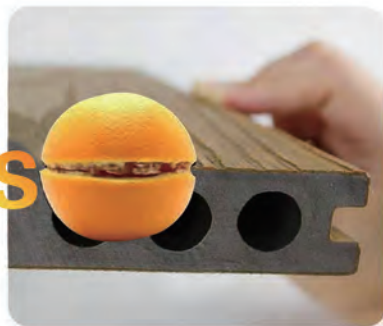


Simply, it is a HDPE outlayer that surrounds the core material, it is designed to enhance the performance of anti-scratch, waterproof.

Traditional

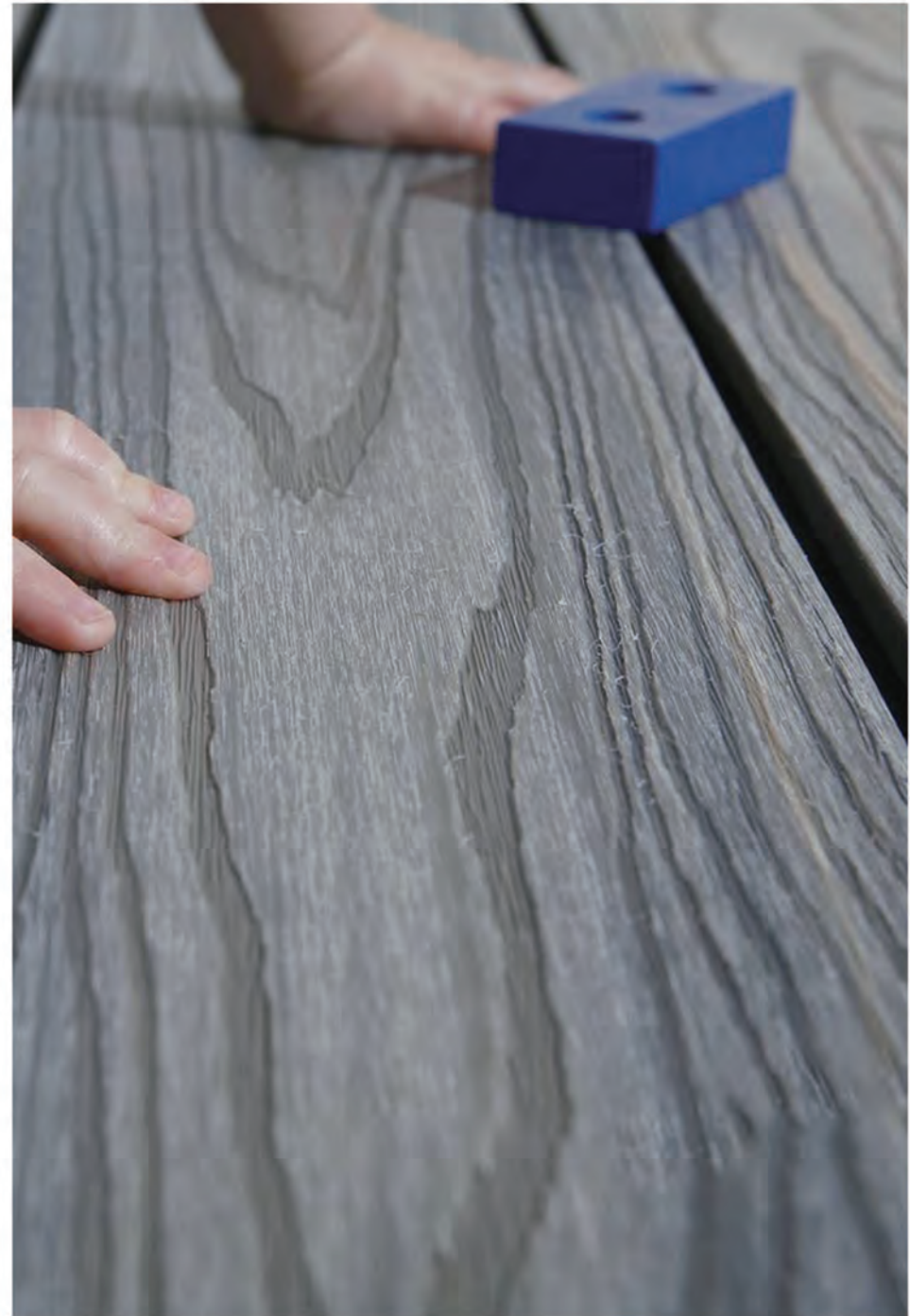


Co-extrusion



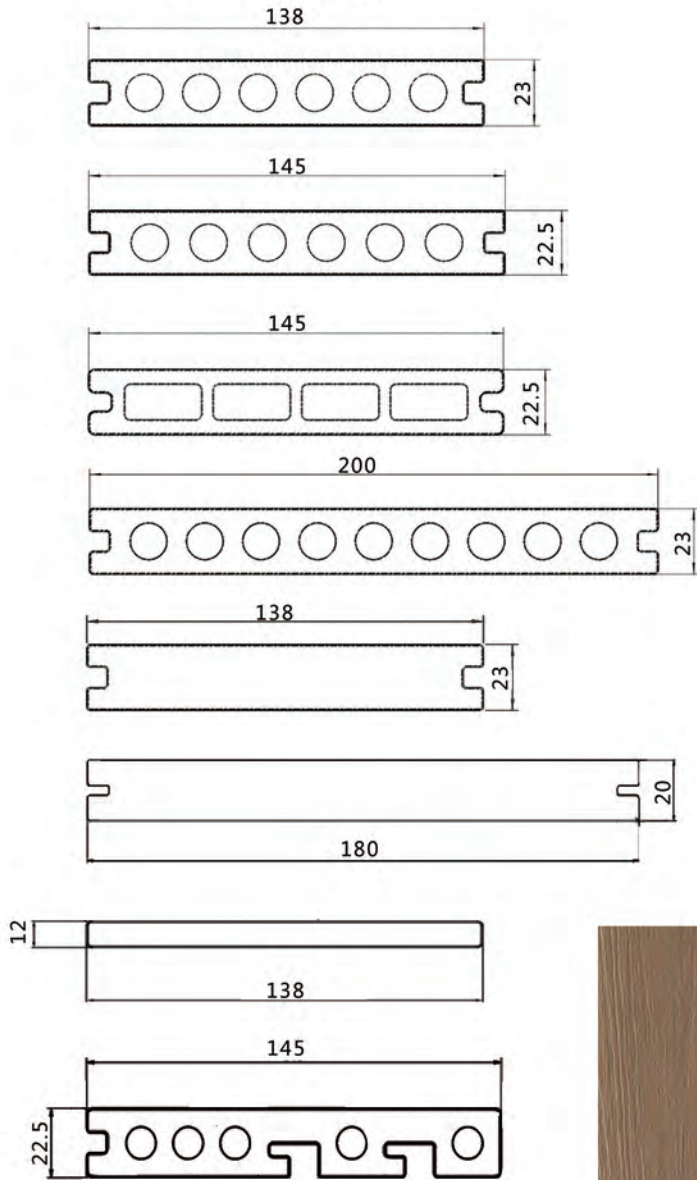
vs

MacroTech co-extrusion products have stronger performance than traditional in all fields.





Profile Suggestions



Surface Pattern Selection



Primitive

Exquisite

Classical

Brushed

Wood Grain

Color Swatch



Teak

Silver Gray

Gray

Antique Gray

Maple

Coffee

Charcoal

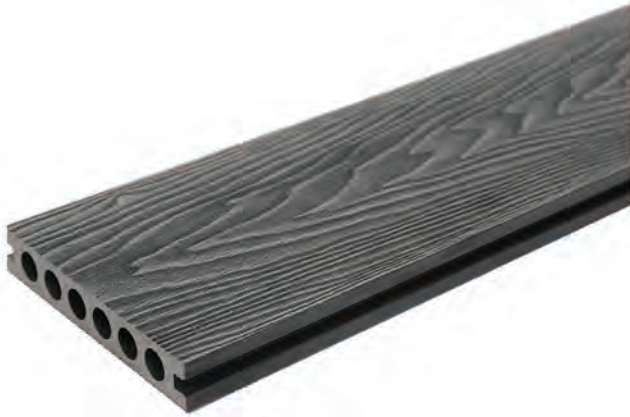
Dark Black

WPC Decking
3D Embossed

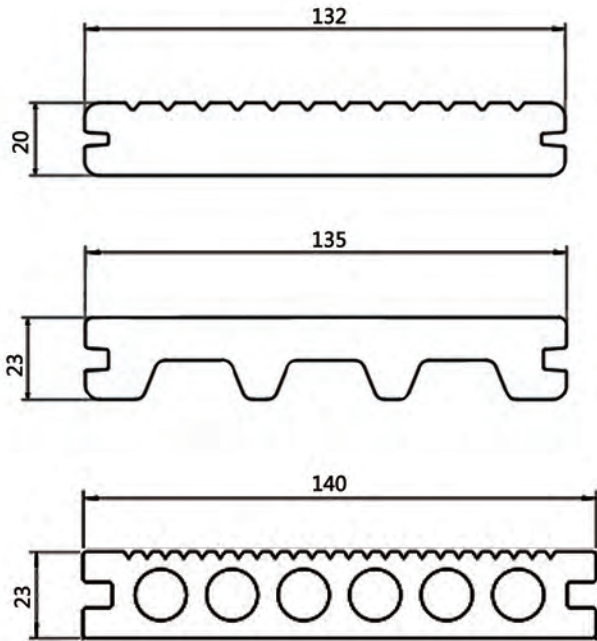


3D Embossed WPC Compare With Traditional WPC Woodgrain

- Better wooden texture than traditional wpc.
- The abrasion resistance of 3D embossed decking is better than traditional wpc.
- Better slip resistance.
- Weathering resistance.



Profile Suggestions



Surface Pattern Selection



Modern

Natural

Classic

Color Swatch



Teak

Redwood

Light Coffee

Coffee

Dark Coffee

Light Gray

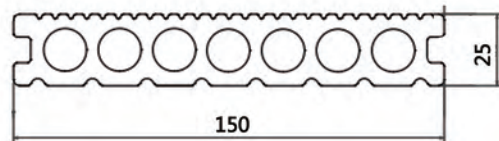
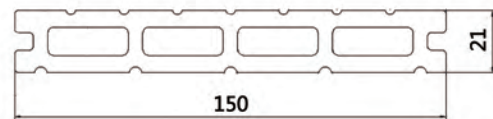
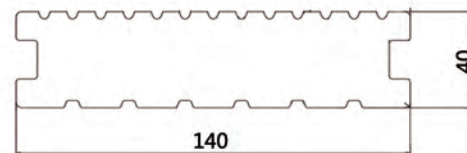
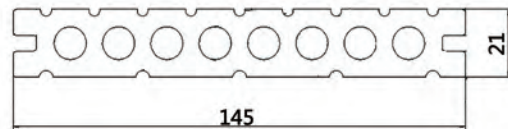
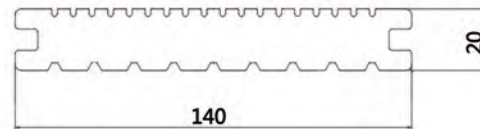
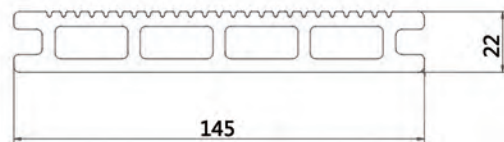
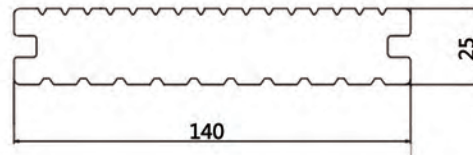
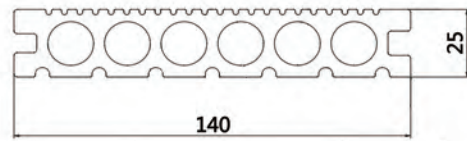
Dark Grey

Anthracite

WPC Decking Traditional



Profile Suggestions



Surface Pattern Selection



Groove



WoodGrain



Flat

Color Swatch



Teak



Redwood



Light Coffee



Coffee



Dark Coffee



Light Gray



Dark Grey



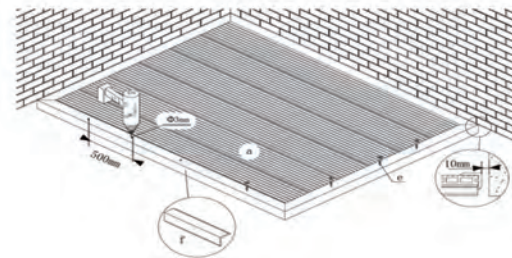
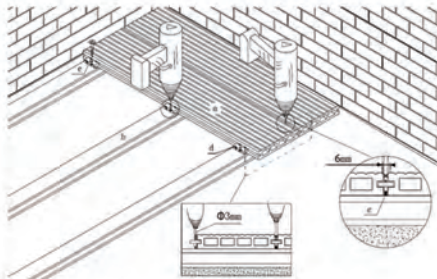
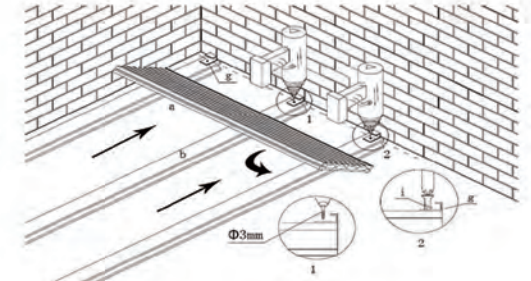
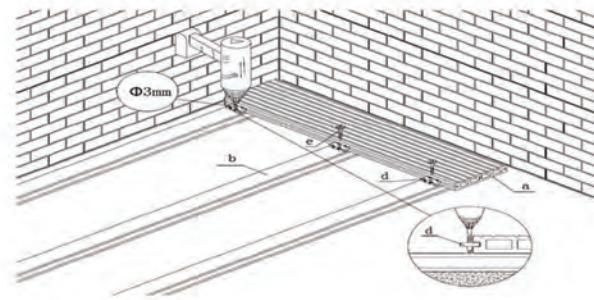
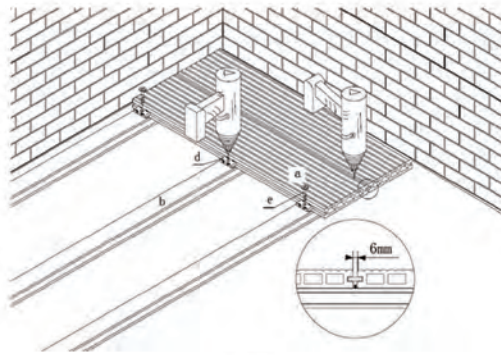
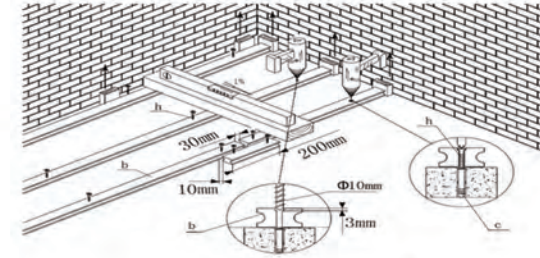
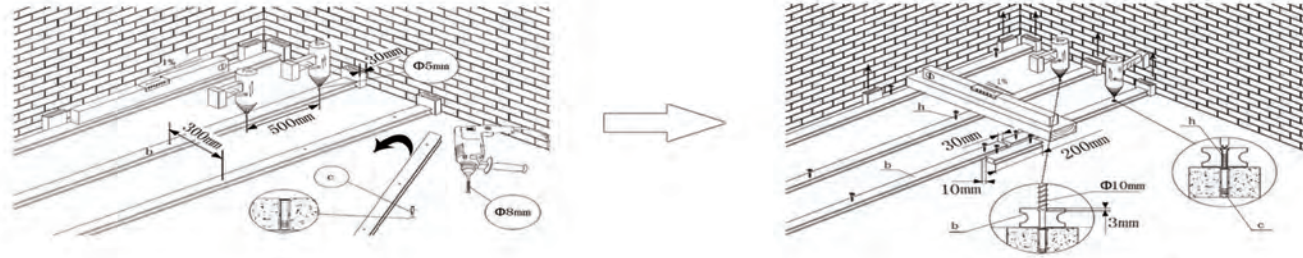
Anthracite

Installation

Tools

Standard woodworking tools: chainsaw, impact drill, hand drill, drill bits.



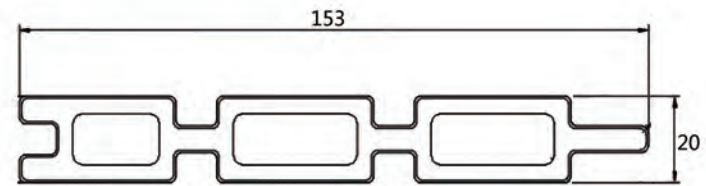
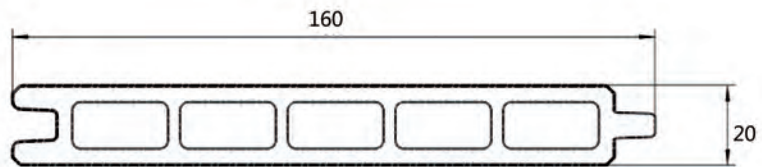


WPC FENCE
Co-Extrusion Fully Enclosed Style



Co-Extrusion Fence Panel

A thin protection layer all over the fence panel makes the board more stain resistant and lower maintenance.

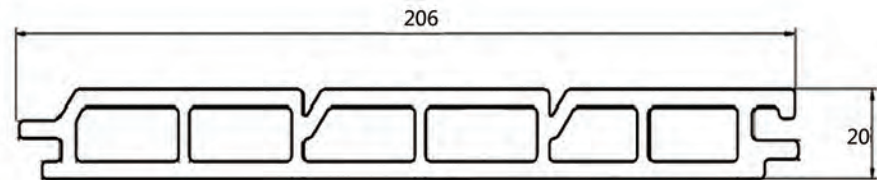
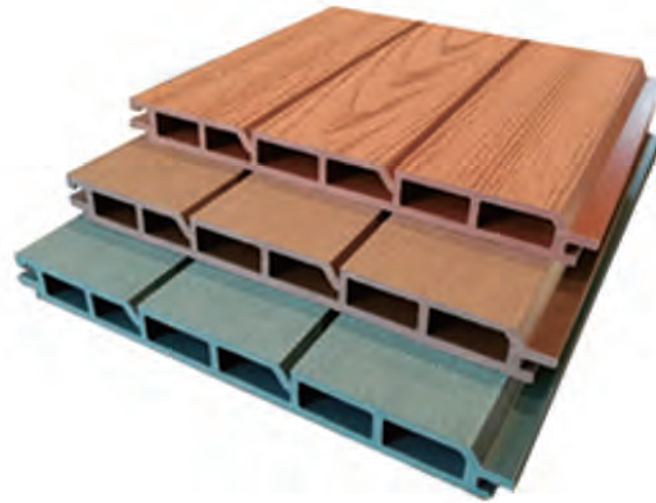
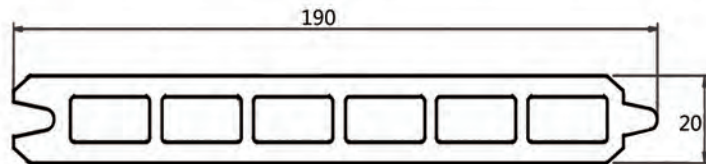
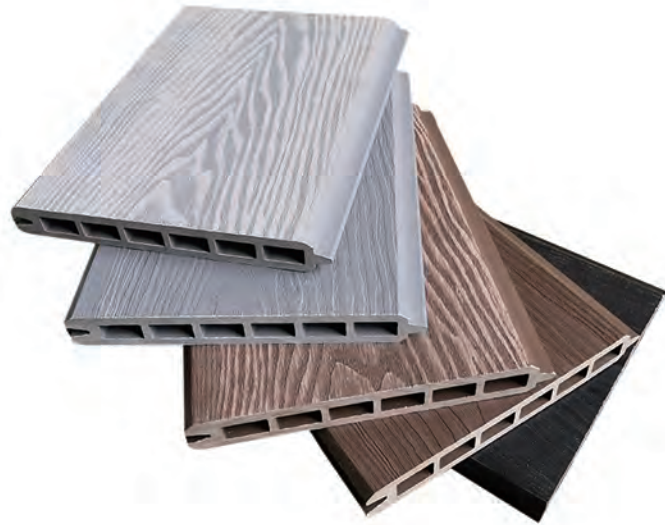


WPC FENCE
3D Embossed Fully Enclosed Style



3D Embossed Fence Panel

3D embossed composite fence panels have a stronger wood feel, are resistant to insect and termite attack, and waterproof.

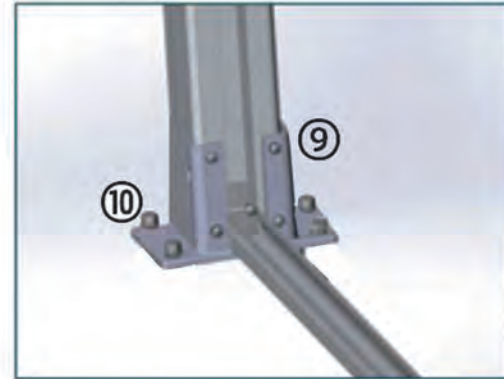
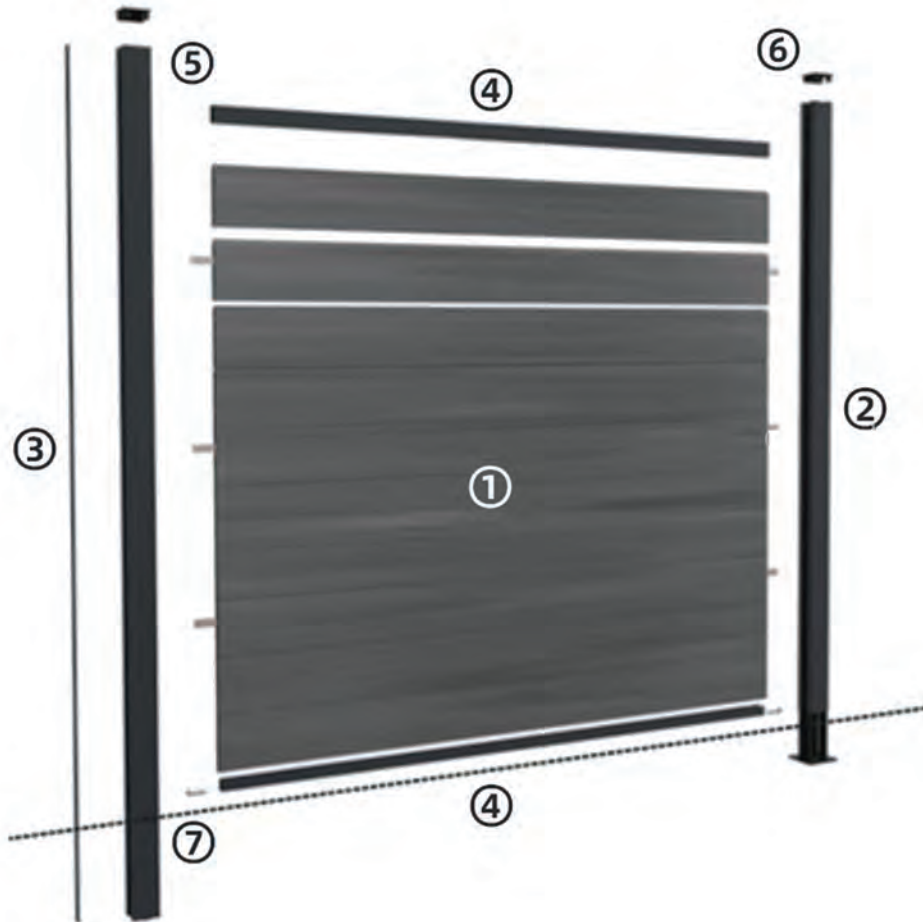




MacroTech

Fully Enclosed Structure Diagram

MacroTech WPC fence is that combines WPC material fence panel and aluminum accessories.



Ground

(Tips:500 or 600mm needs to be buried when installation into soil)

Accessories

Low-cost labour installation charge.Simple installation process without professional skills or tools



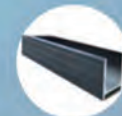
①WPC fence panel



②Aluminum post



③Aluminum post trim



④Aluminum post trim top&bottom



⑤ Aluminum anchor clip



⑥Post cap



⑦L-clips



⑧Screw



⑨Aluminum post base

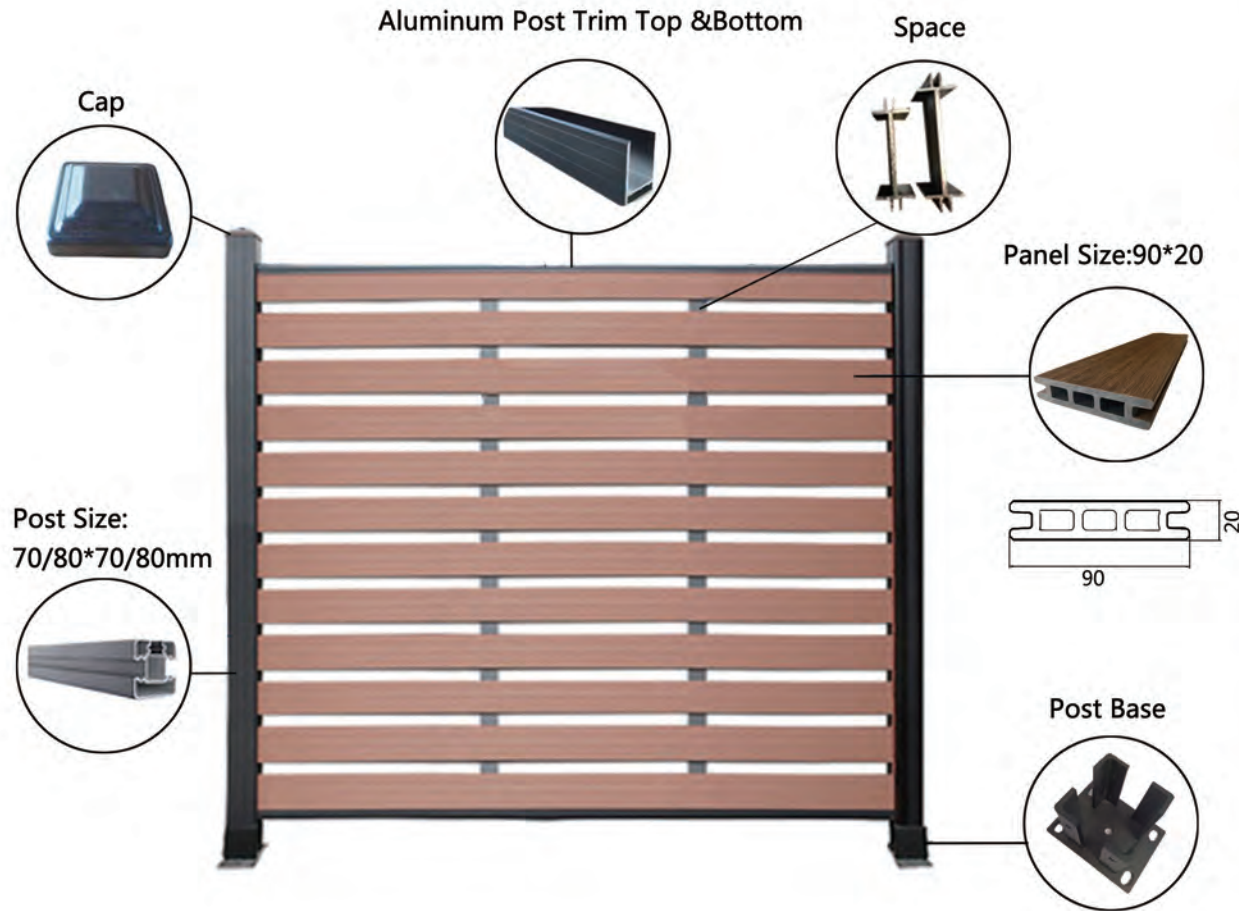


⑩Expansion bolt for fix base

WPC FENCE
Co-extrusion Semi Open Style



Semi Open Style Structure Diagram



WPC FENCE

Traditional Assembled Fence



The size of the slat board is 115*10mm, with 4 pieces aluminum beams for substructure. Using MacroTech fence panel, you can enjoy the ideal outdoor living.

WPC Fence

Outdoor WPC Courtyard Electric Fence Gate



Product parameters:

Style: Sliding Electric Door

WPC pannel profile size: 90*20mm,160*20mm

Electric Door Specifications: Customized

Material: PE wood plastic board+Galvanized or Aluminum frame

WPC FENCE

Gate

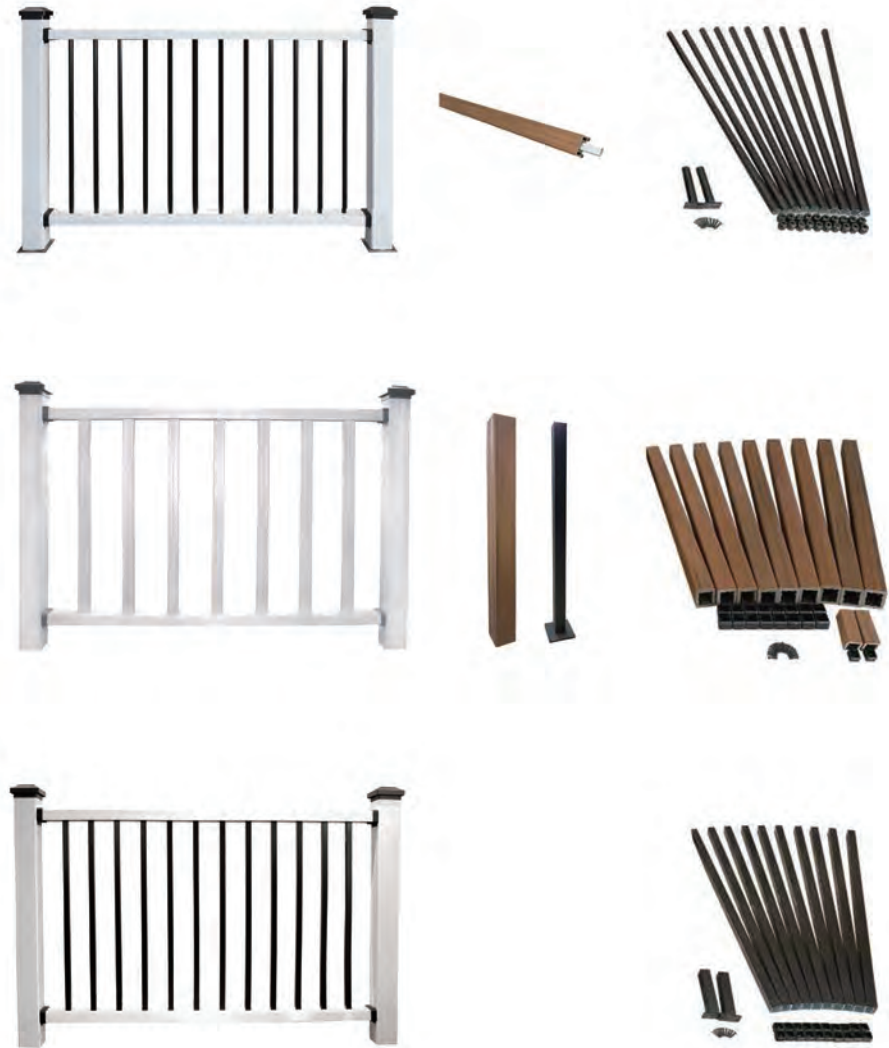
MacroTech wpc gate standard size is 1.8M(L)*0.9M(W) ,
Other sizes can be customized.

WPC Gate Structure Diagram



① Alu post 	② Screw for fix post 
③ Hinge 	④ Alu gate frame 
⑤ Big corner code 	⑥ Small corner code 
⑦ Screw for fix frame 	⑧ WPC pannel 
⑨ Lock 	⑩ Pin 

WPC Railing Co-extrusion



Application: Gardens / Courtyards / Balconies / Corridors etc.

WPC Wall Cladding Co-extrusion

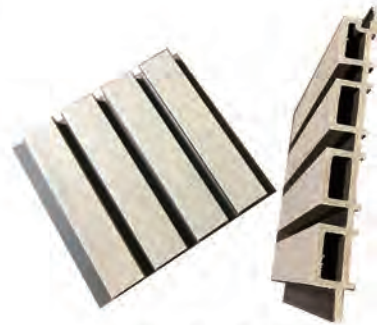


Co-extrusion wall cladding

Most of the wall cladding project lack of 3D appearance because most of the designs are flat. So we developed co-extrusion great wall external wall cladding.



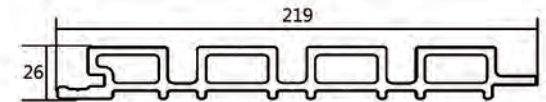
Double Color

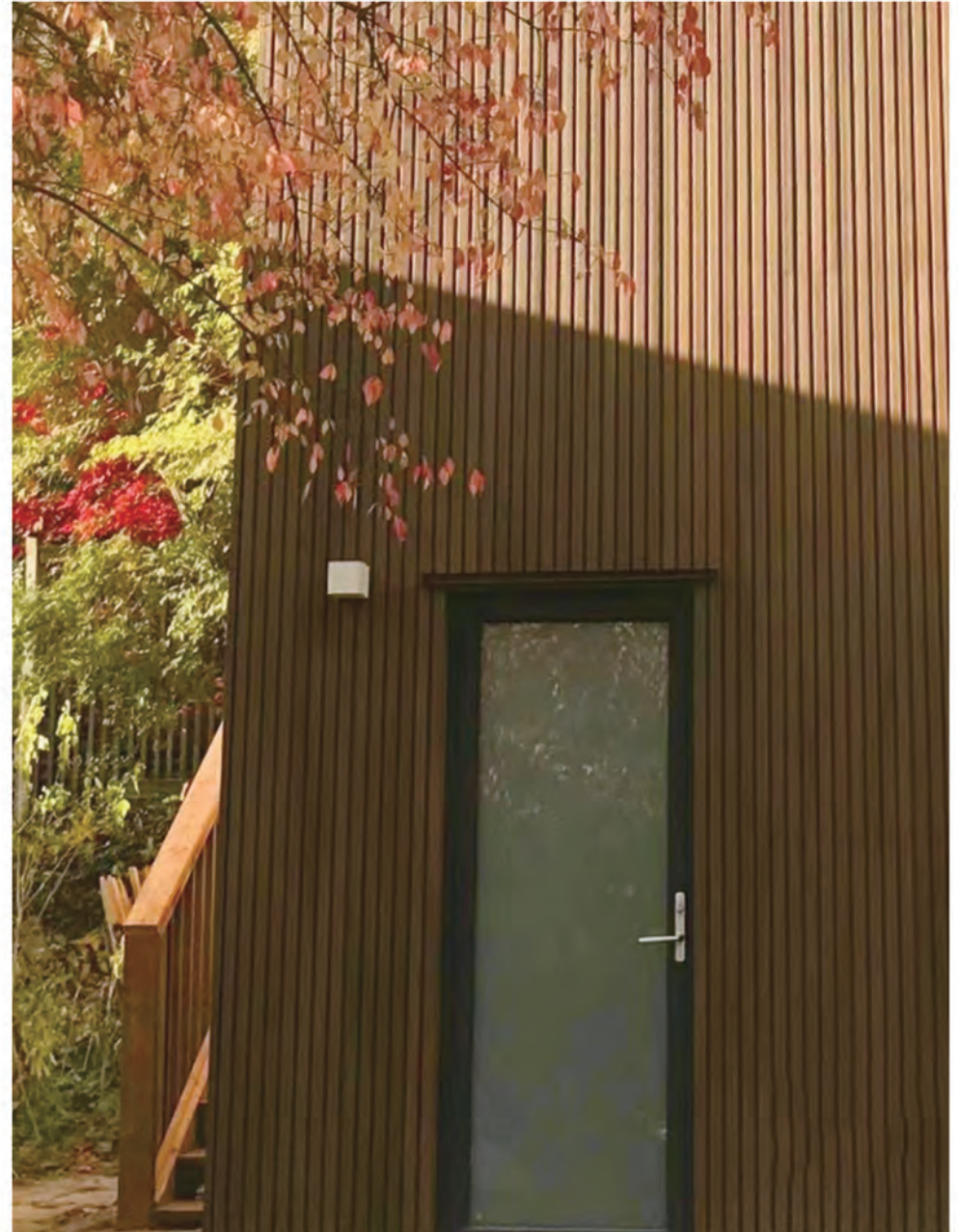
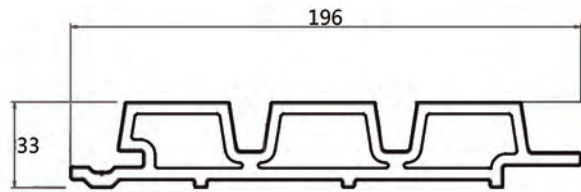
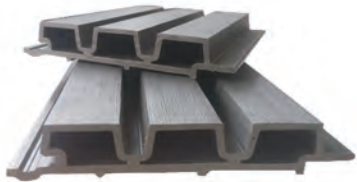
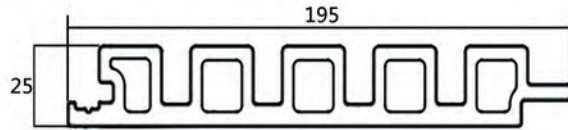


Double Color

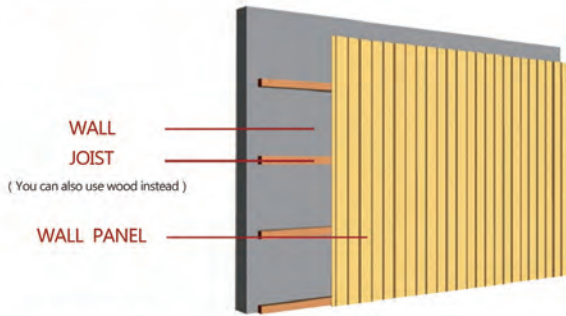


Single Color





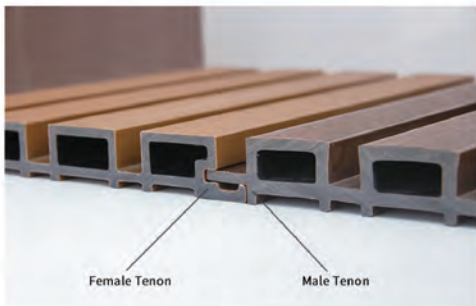
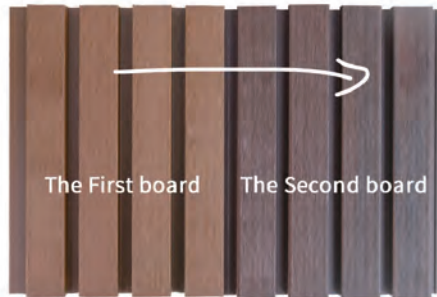
WALL CONSTRUCTION METHOD



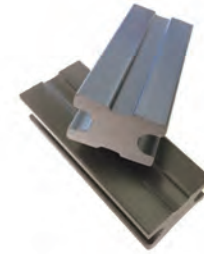
PRECAUTIONS

The joist must be leveled on the wall to install the wall panel, and the distance between the joist should be controlled within 50cm

The wall panels are installed in the order from left to right, first fix the first panel, and then connect in sequence



Accessories



Joist



Corner Cover



Outer Corner Cover



Screw



Start/ End Cover



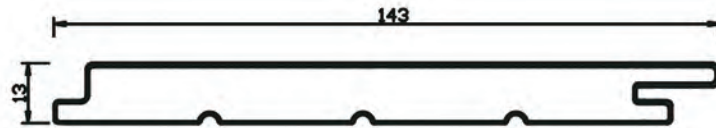
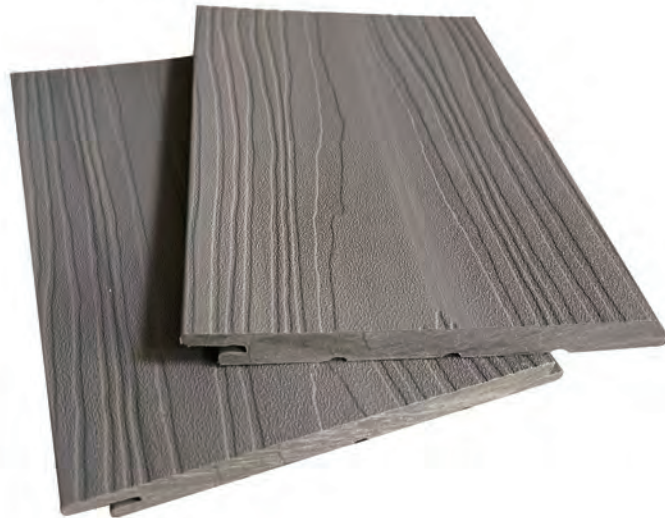
Fixing Clip

WPC Wall Cladding

Co-extrusion



MacroTech WPC wall cladding with solid design more stable.



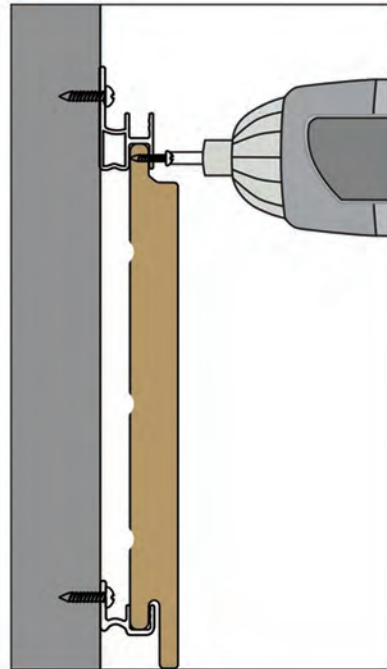
Accessories of Solid Wall Cladding



Rubber Stopper



Cladding Clip



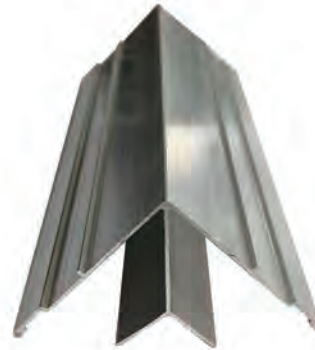
MacroTech wpc wall cladding system has various types Aluminum trims for you to choose, which makes the whole system more stable.



Aluminum H Trim



Aluminum Start/End Trim



Aluminum Inner Corner Trim

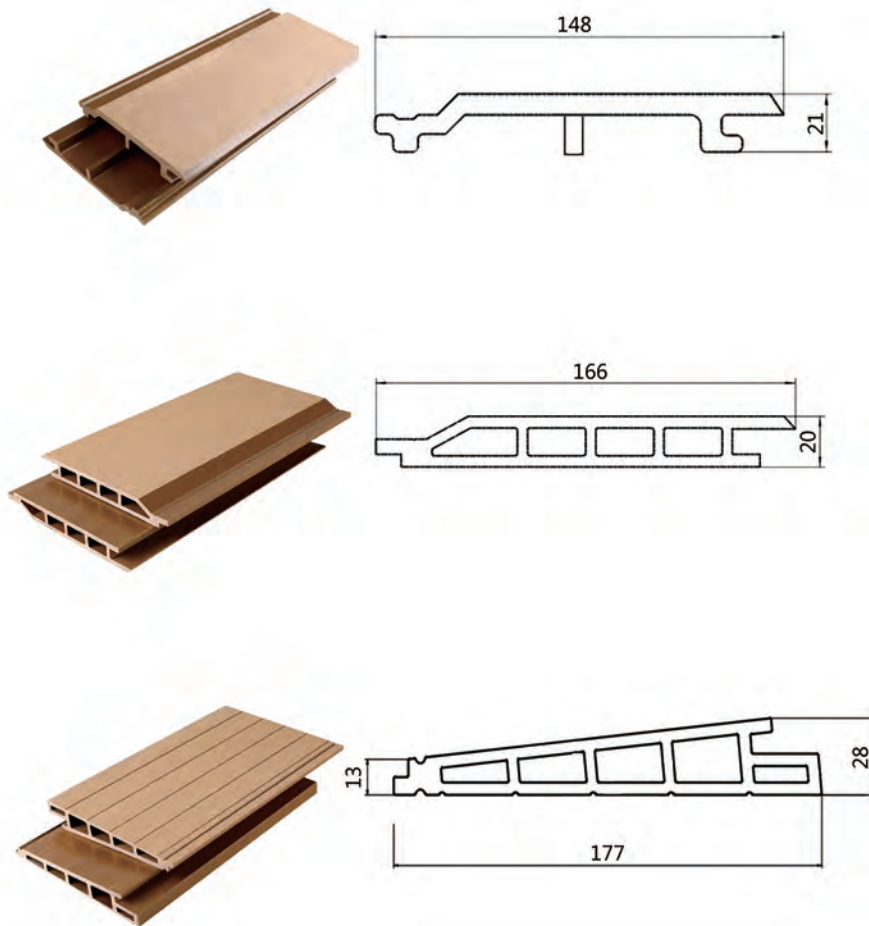


Aluminum Outer Corner Trim

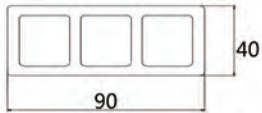
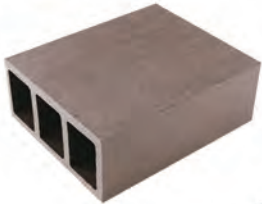
WPC Wall Cladding

Traditional

MacroTech WPC wall cladding can protect your wall from weathering and sunlight, giving you a peace of mind.

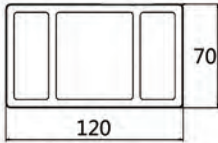


WPC Beams



Traditional

Size: 90*40mm,100*50mm,160*80mm,200*80mm



Co-extrusion

Size: 120*70mm



Accessory

Test Report

Report No. 180528009SHF-BP-4

Test Items, Method and Results :

Test Item: Resistance to artificial weathering - Xenon-arc Lamps
 Test Sample: Co-Ex Decking REDWOOD
 Test Method: ISO 4892-2:2013 Cycle 1
 Exposure cycle:
 1) 102 min light at (65±3)°C, Black-standard-temperature, Relative humidity (50±10)%, Irradiance: 0.51 ± 0.02 W/(m²·nm) at 340 nm.
 2) 18 min light and water spray, Irradiance: 0.51 ± 0.02 W/(m²·nm) at 340 nm.
 Test Duration: 2000 hours

Test Result:

Exposure time	ΔL*	Δa*	Δb*	ΔE*	Grey scale	Observation
720H	-0.83	0.70	-0.59	1.24	4	Part showed slight color change
1440H	-1.01	0.93	-0.85	1.62	4	Part showed slight color change
1800H	-0.91	0.87	-1.14	1.70	4	Part showed slight color change
2000H	-1.07	0.69	-1.34	1.85	4	Part showed slight color change

Test Report

Report No. 170807011SHF-BP-1

The classification has been carried out in accordance with EN 13501-1.

Fire behaviour	Smoke production	Flaming Droplets
B	s2	d0

Reaction to fire classification B-s2, d0

Test Report

Report No. XMIN2205004612CM-01

Sample Name : WOOD PLASTIC COMPOSITE DECKING BOARD
 Product Specification : 145*22.5mm
 Summary of Results:

No.	Test Item	Test Method	Result
1	Anti-Slip Property	DIN EN 16165:2021-12 Annex B	Ramp test value α_{shod} : 13° Slip resistance class: R10
2	Flexural properties	EN 15534-1:2014+A1:2017 Section 7.3.2 & Appendix A	Modulus of Rupture: 28.8MPa Modulus of Elasticity: 3420MPa
3	Abrasion Resistance*	ASTM D4060-19	See results
4	Linear Thermal Expansion Coefficient*	EN 15534-1:2014+A1:2017 Section 9.2 & ISO 11359-2:2021 Method A	52×10 ⁻⁶ K ⁻¹

Results of 3: Test Item: Abrasion Resistance*

Test Method: ASTM D4060-19

Test Condition:

Wheel: CS-10

Load: 250g/wheel (total 500g)

Cycles: 1000

Test Result:

Test Item	Weight loss(mg)	Wear index (mg/1000 cycles)
Abrasion Resistance	11	11