ARLUXE

DESIGNED FOR LIVING
BUILT TO LAST

Manufacturer of Eco- Friendly Wood Plastic Composites Product

ARLUXE

OUTDOOR WPC FLUTED PANEL

Discover the Benefits of WPC products

WPC products, known for their durability, outperform traditional materials in longevity. Unlike traditional materials, WPC exterior wall cladding and interior WPC wall panels are waterproof, moisture-proof, and resistant to insects and decay, preventing decay and deformation in various places. This makes them an ideal choice for exterior applications where exposure to the elements is a concern or where traditional wood might fail.

WPC materials require minimal upkeep. Outdoor wpc wall panel do not need frequent painting, staining, or sealing, making them a cost-effective and time-saving option for both exterior and interior applications. It's free from harmful chemicals like benzene, and the formaldehyde content is significantly low, reducing environmental impact and making it safer for air quality.

The composite cladding consists of 38% HDPE, 50% wood powder and 12% additives, which can stand up to extreme weather conditions and everyday use.

waterproof
moistureproof

termite proof

weather and sun
resistance

wear resistant

color atable

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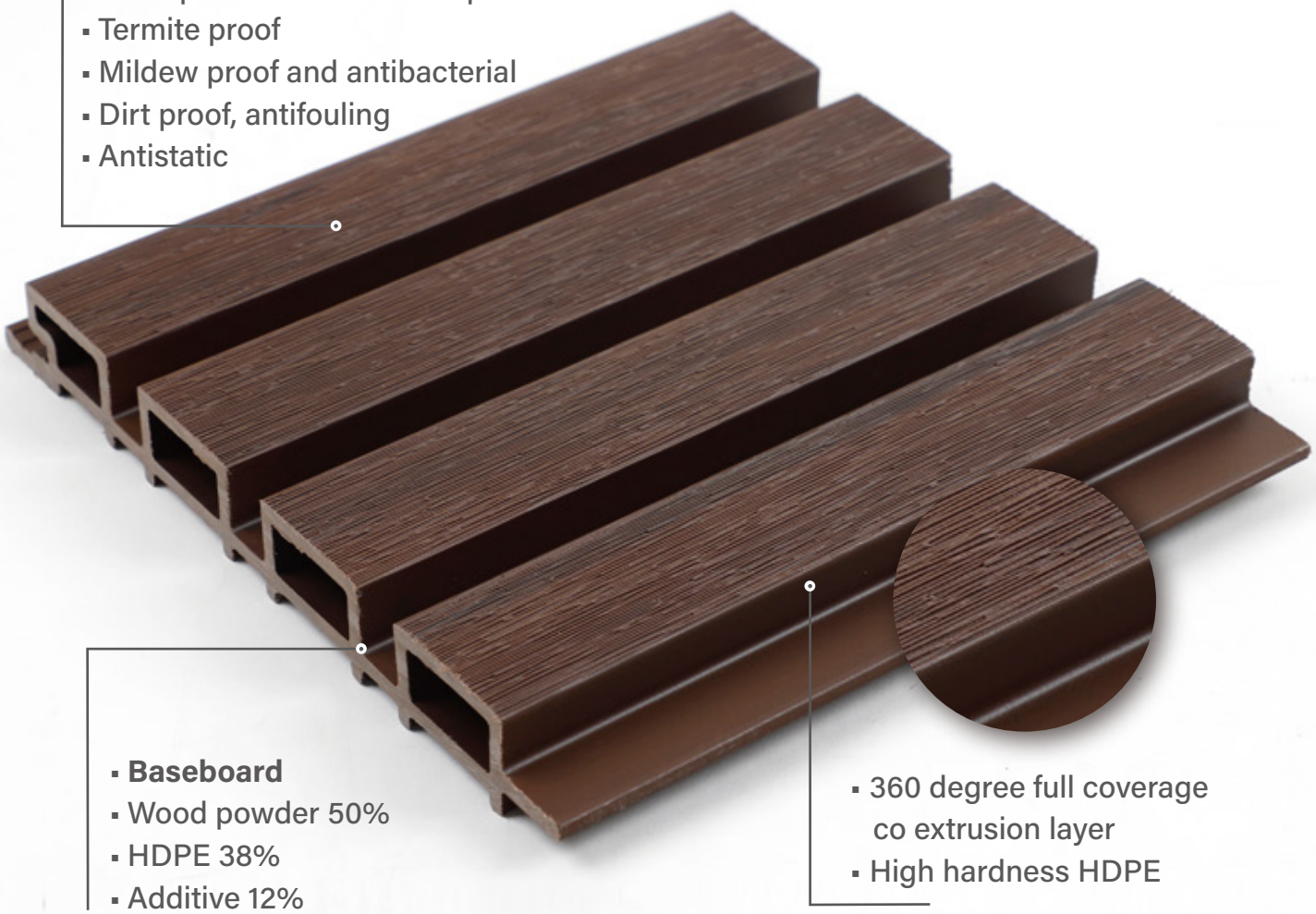
- Waterproof and moisture - proof
- Termite proof
- Mildew proof and antibacterial
- Dirt proof, antifouling
- Antistatic



- **Baseboard**
- Wood powder 50%
- HDPE 38%
- Additive 12%

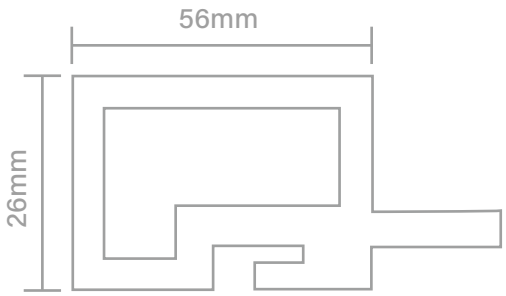
- 360 degree full coverage co extrusion layer
- High hardness HDPE

OUTDOOR WPC FLUTED PANEL

Material	35% HDPE+60% wood fiber + 5% additives
Size/pc	2900*220*26mm
UV layer	With UV layer
Type	Co-extrusion
Eco level	E0 (Formaldehyde-Free)
Features	(1) Durable & long last lifetime (2) Anti-termite & mould proof (3) Scratch-resistant, safe for children (4) Waterproof, easy to clean & maintain (5) Easy to Install (6) Weather resistant

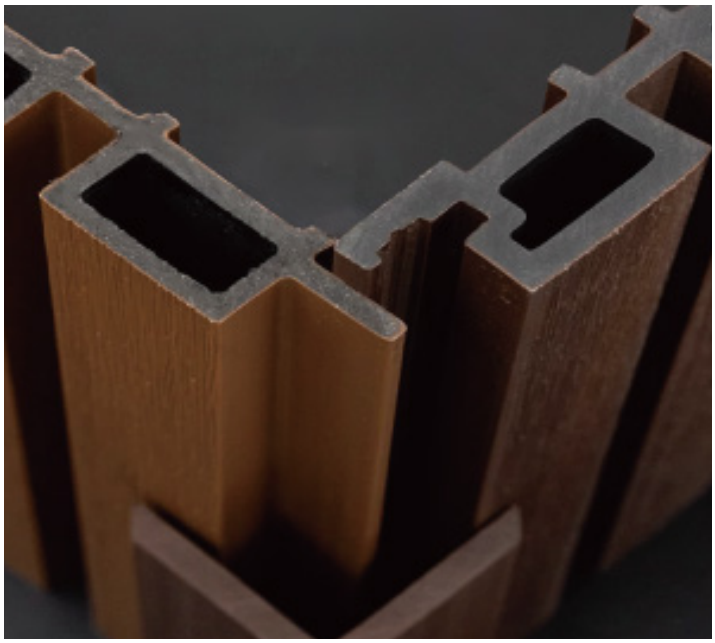
OUTDOOR WPC FLUTED PANEL - ACCESSORY

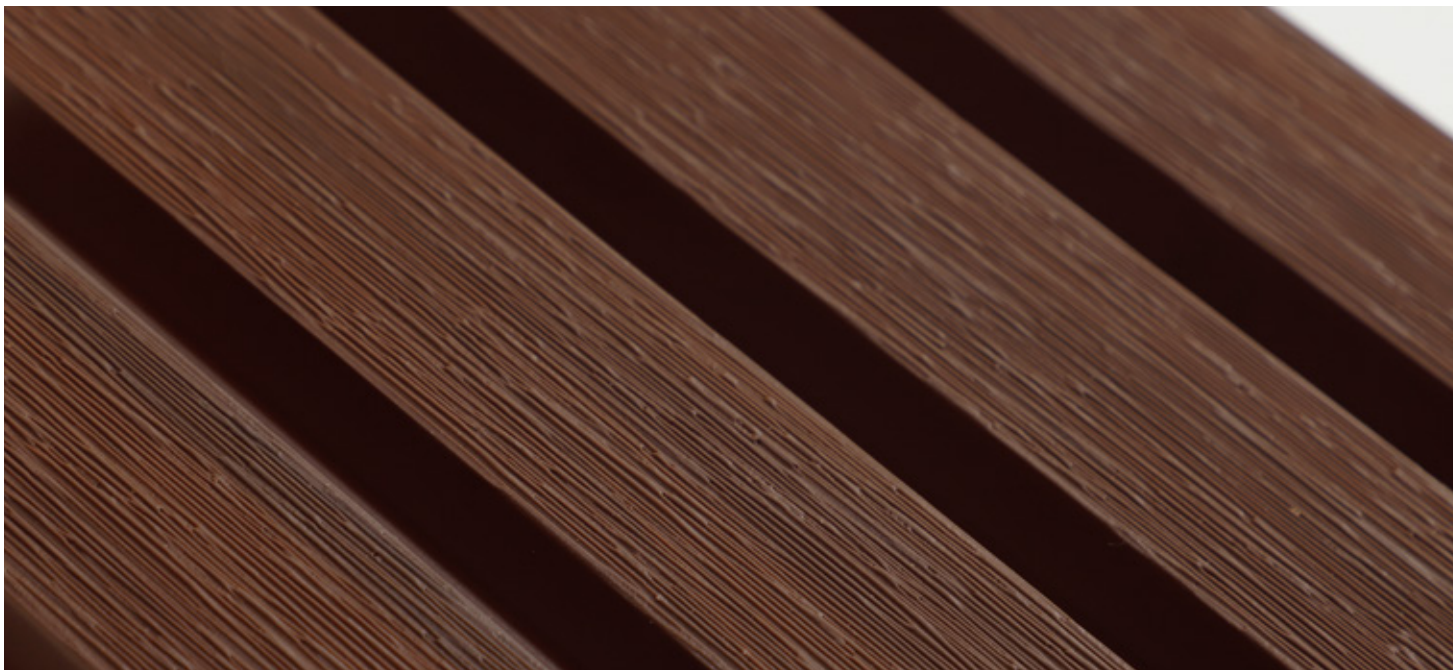
EDGE TRIM: 26*56MM



OUTDOOR WPC FLUTED PANEL - ACCESSORY

LSTRIP: 50*50MM

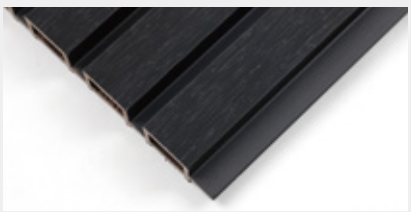




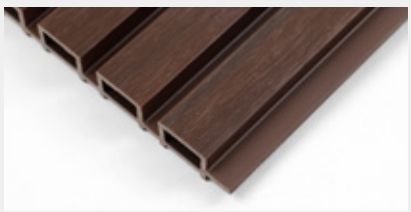
The differences between wpc and wood materials

Characteristics		WPC	Wood
Using Property	Humid Stability	More Stable	will expand after water absorbtion
	Durability	Long	Short
	Termite Resistance	Yes	No
	UV Stability	High	Low
	Acid and alkali resistance	High	LoW
	Anti-aging sun	High	LoW
Maintenance	Painting	No Need	Yes
	Cleaning	Easy	Middle
	Maintenance Cost	No maintenance, Low cost	High cost

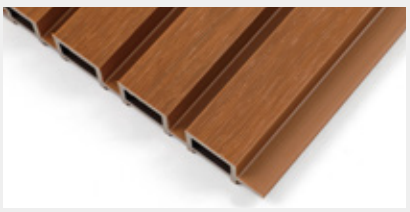
PRODUCT COLOR



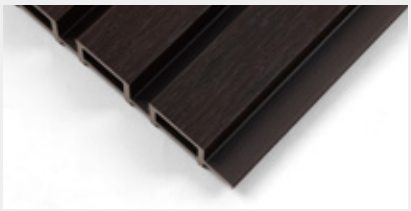
OUTDOOR WPC BLACK



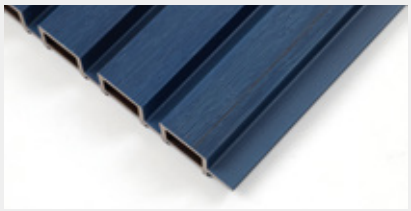
OUTDOOR WPC COFFEE



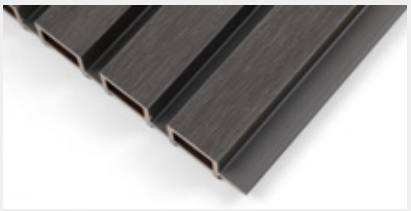
OUTDOOR WPC TEAK



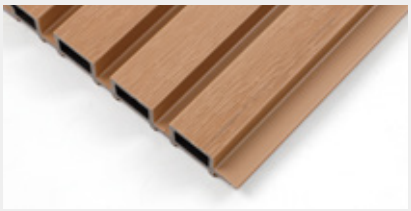
OUTDOOR WPC WALNUT



OUTDOOR WPC BLUE



OUTDOOR WPC GRAY



OUTDOOR WPC OAK

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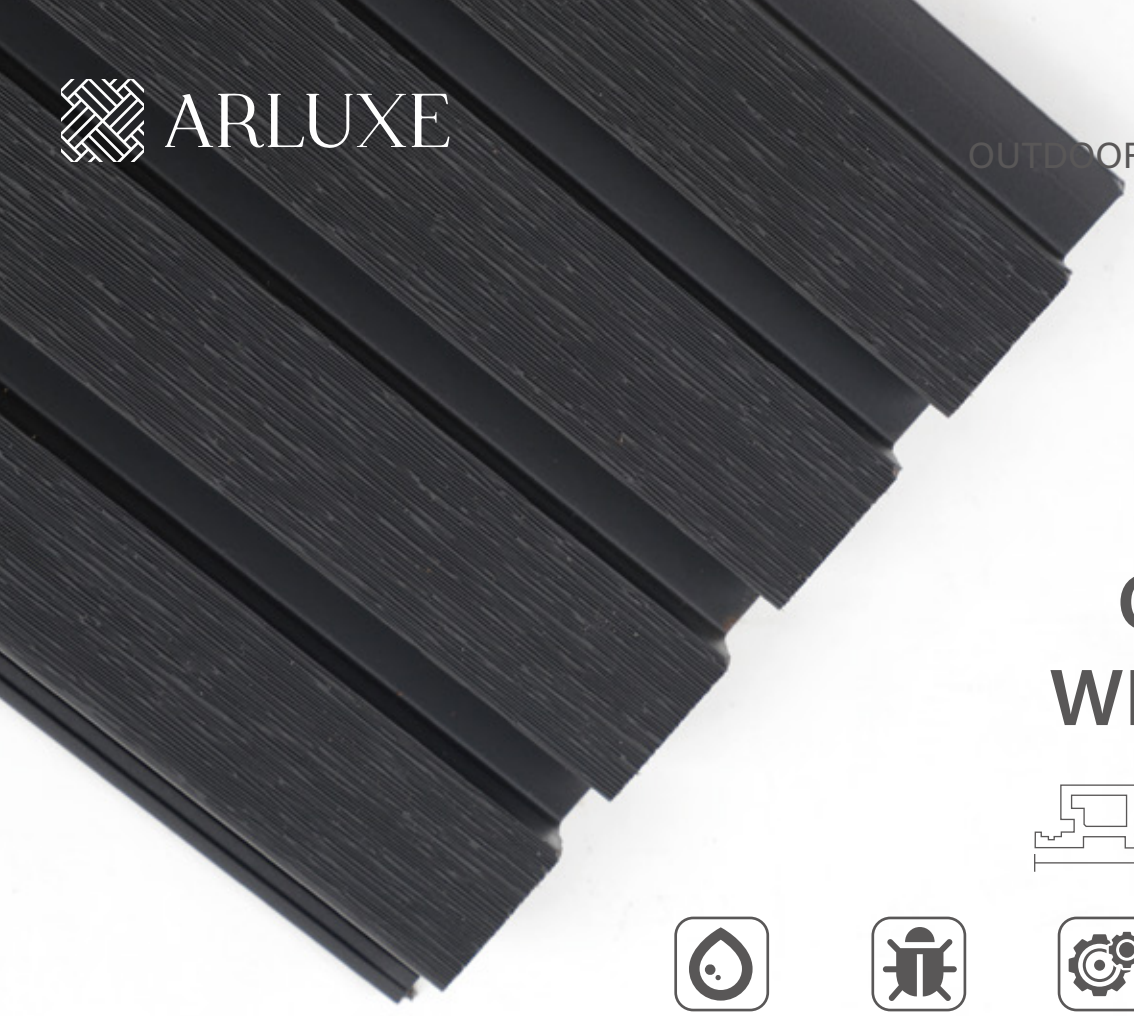
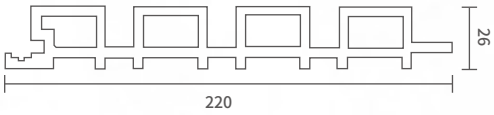
OUTDOOR WPC FLUTED PANEL



OUTDOOR WPC BLACK



waterproof moistureproof

termite proof

wear resistant

color atable

weather and sun resistance

Product advantage

(1) Durable & long last lifetime
(2) Anti-termite & mould proof
(3) Scratch-resistant, safe for children
(4) Waterproof, Fireproof
(5) Easy to Install, easy to clean & maintain
(6) Weather resistant
(7) 20 Years Warranty

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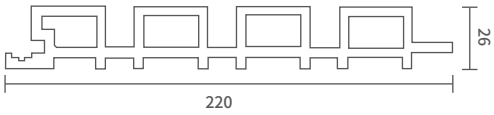
OUTDOOR WPC FLUTED PANEL

OUTDOOR WPC COFFEE



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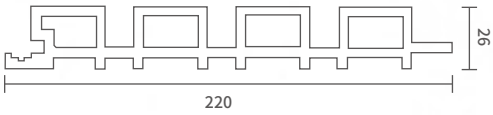
OUTDOOR WPC TEAK



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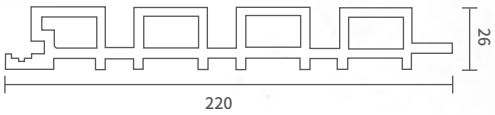
OUTDOOR WPC FLUTED PANEL

OUTDOOR WPC WALNUT



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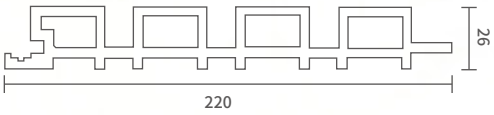
OUTDOOR WPC FLUTED PANEL

OUTDOOR WPC BLUE



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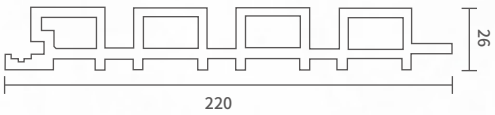
OUTDOOR WPC FLUTED PANEL

OUTDOOR WPC OAK



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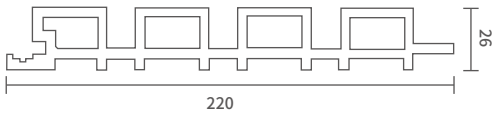
OUTDOOR WPC FLUTED PANEL

OUTDOOR WPC GRAY



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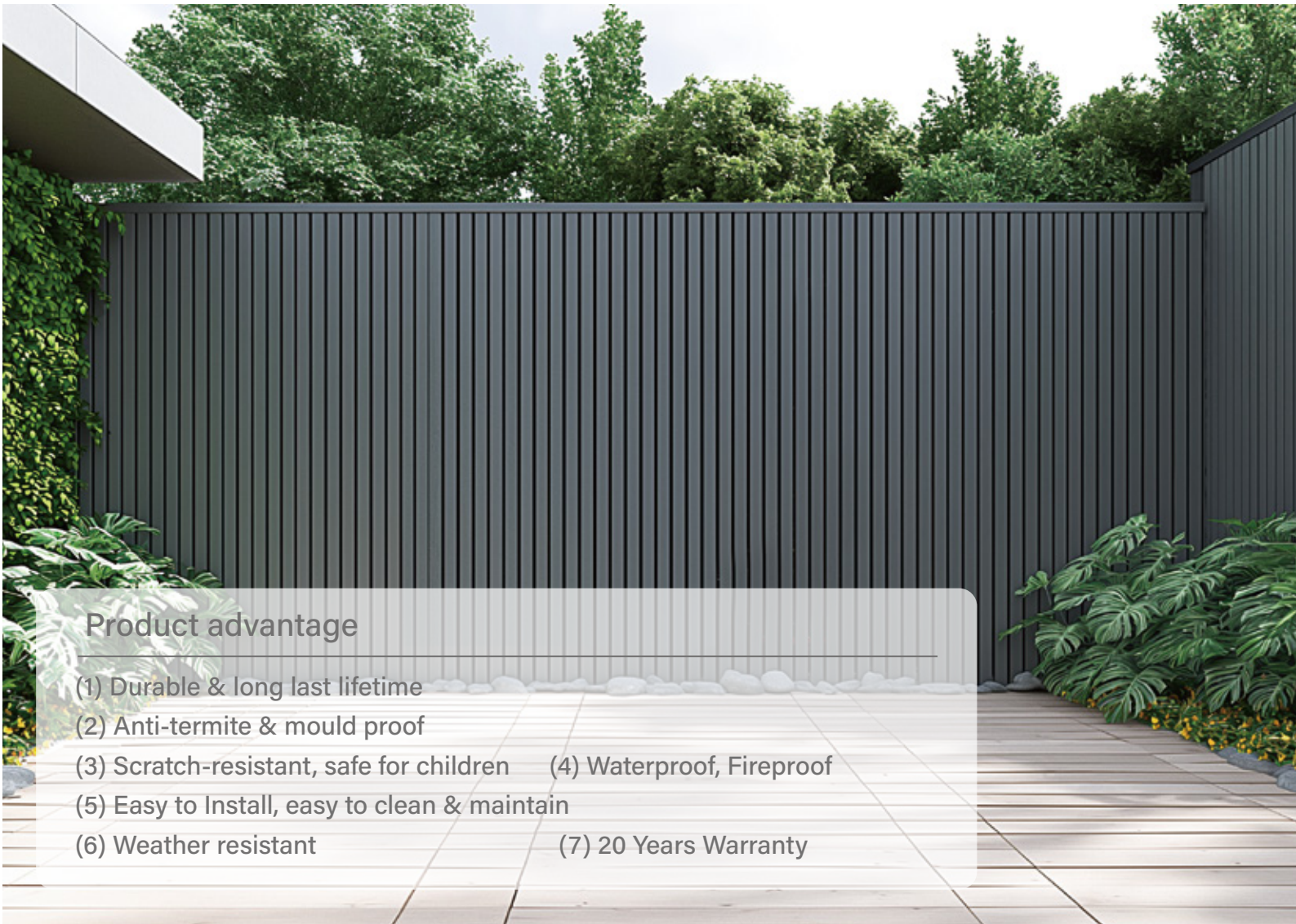
weather and sun resistance



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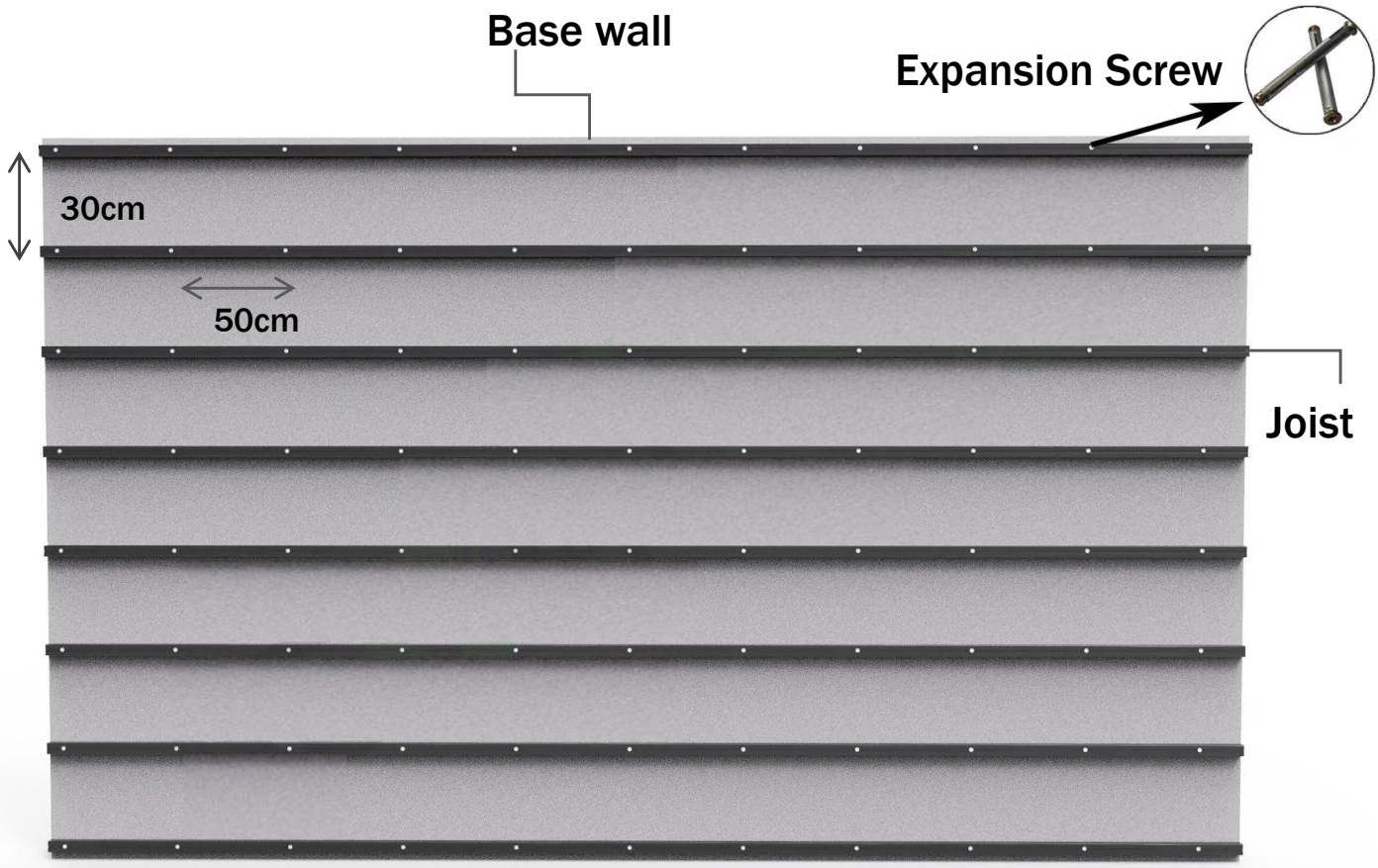
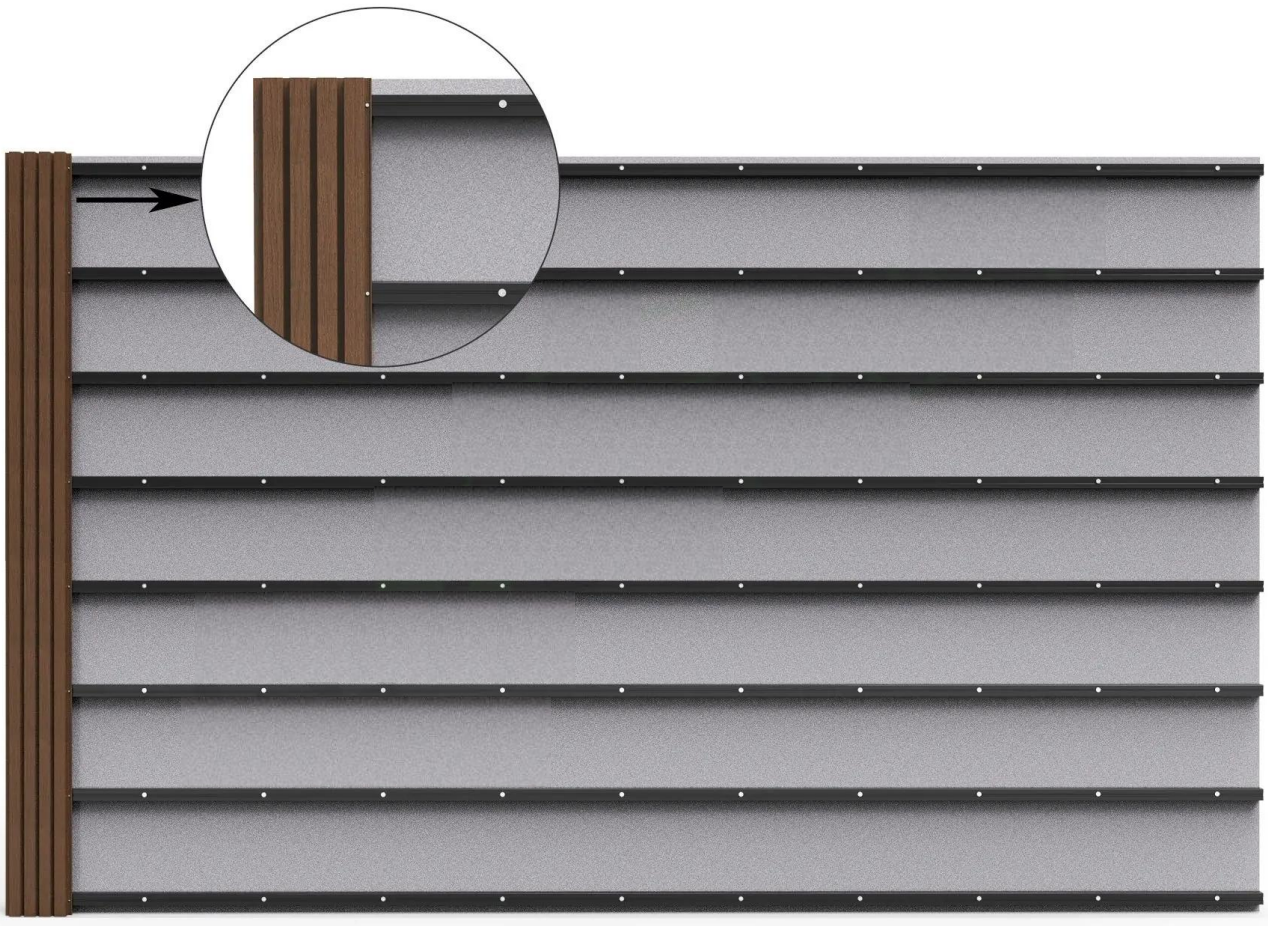
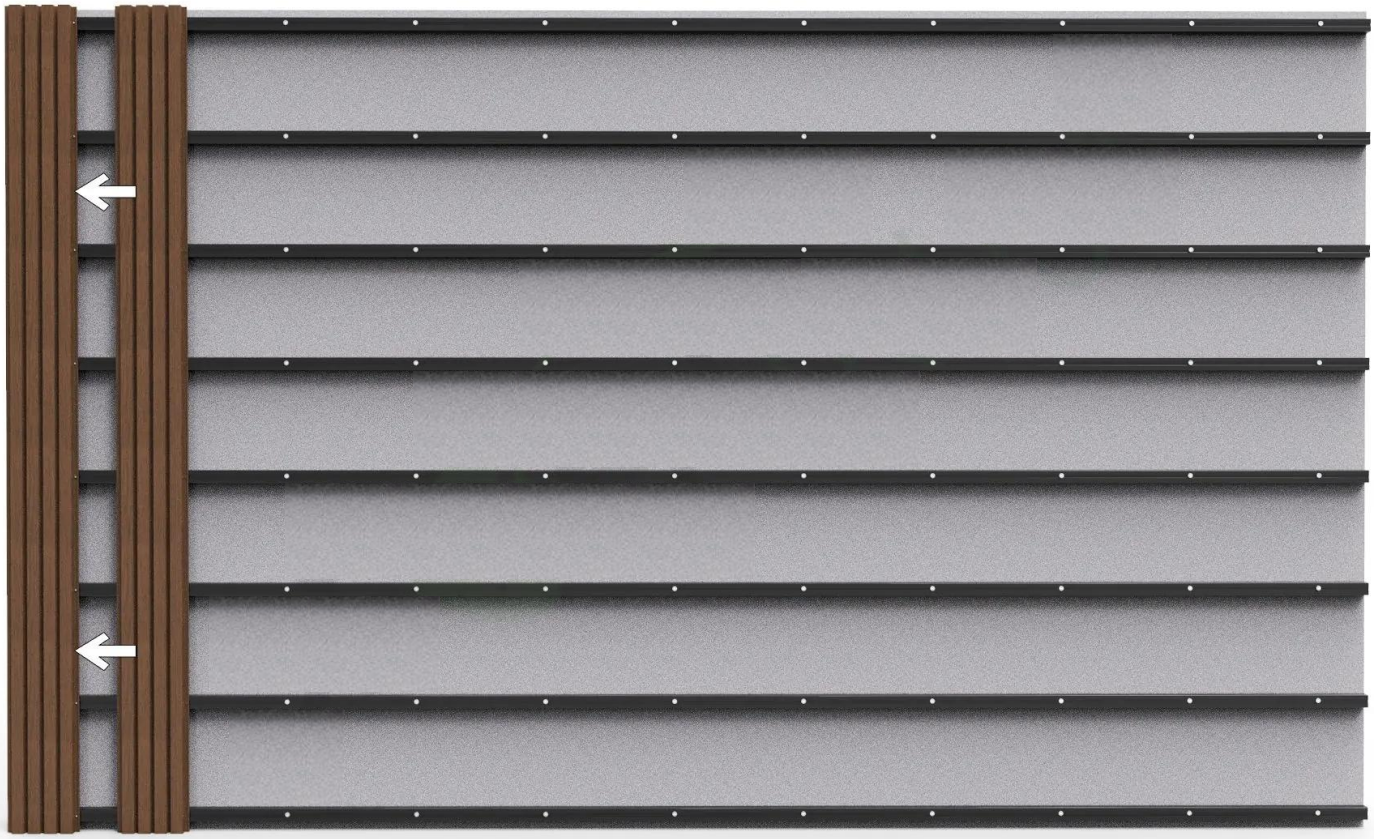


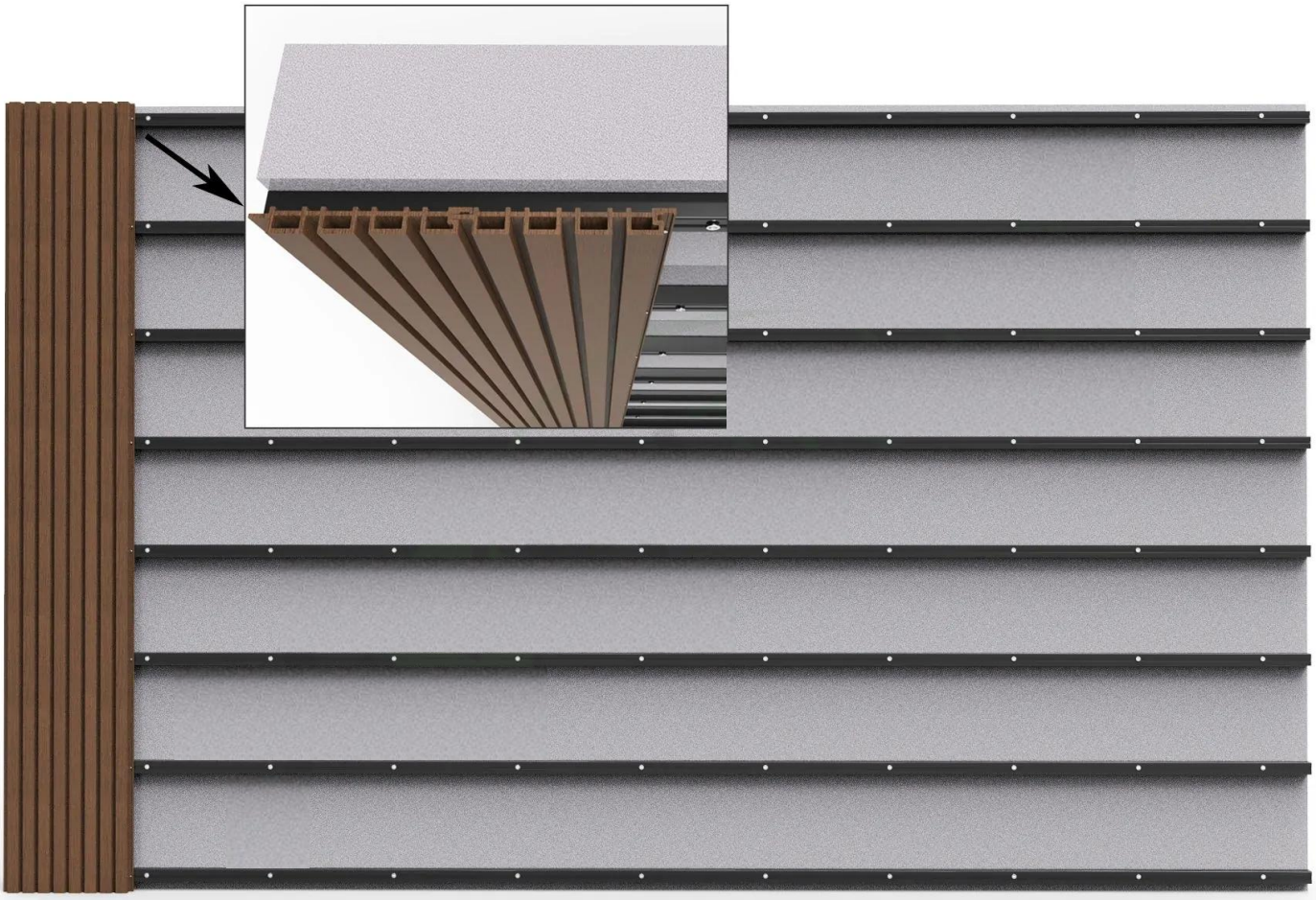
1. FIx the Joist on the base wall, every 30cm a joist, every 50cm anexpansion screw



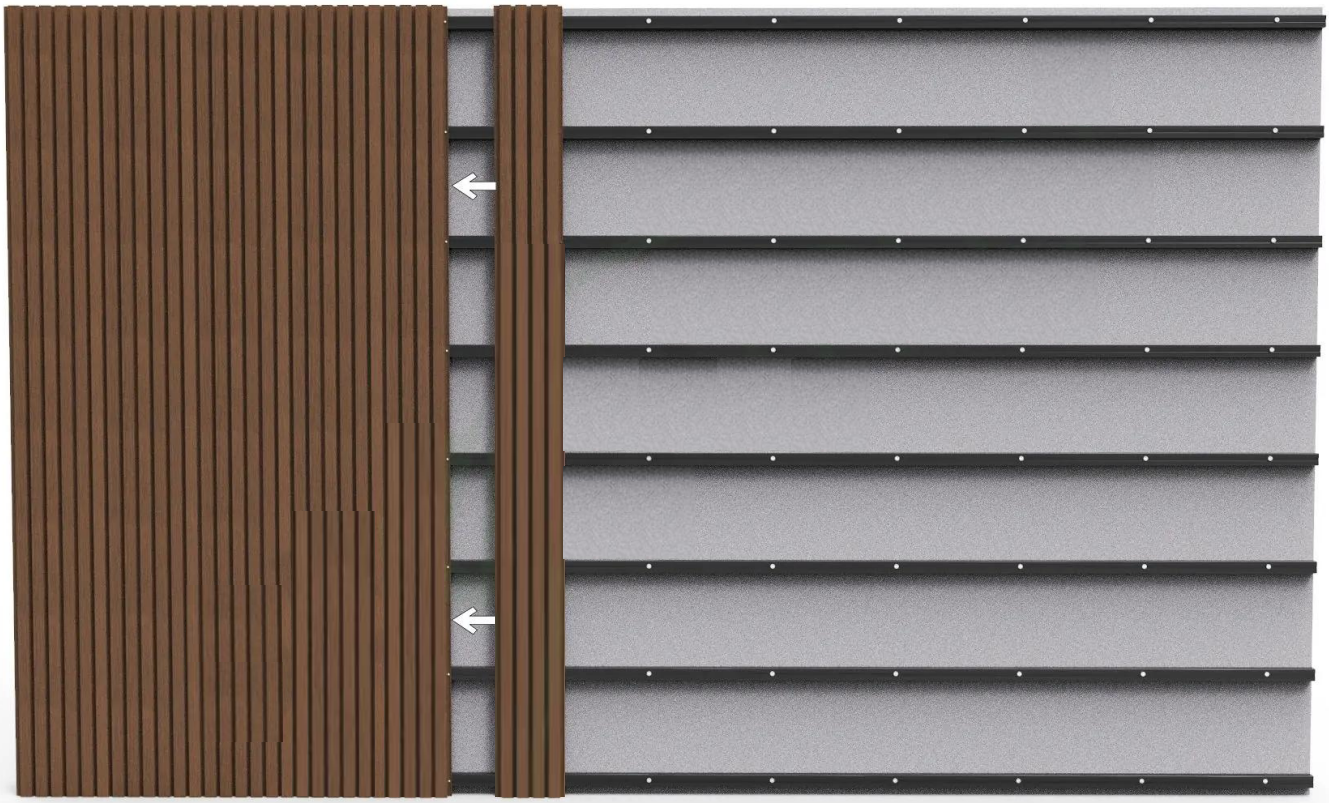
2. Use screws to fix the first wall panel to the joist.



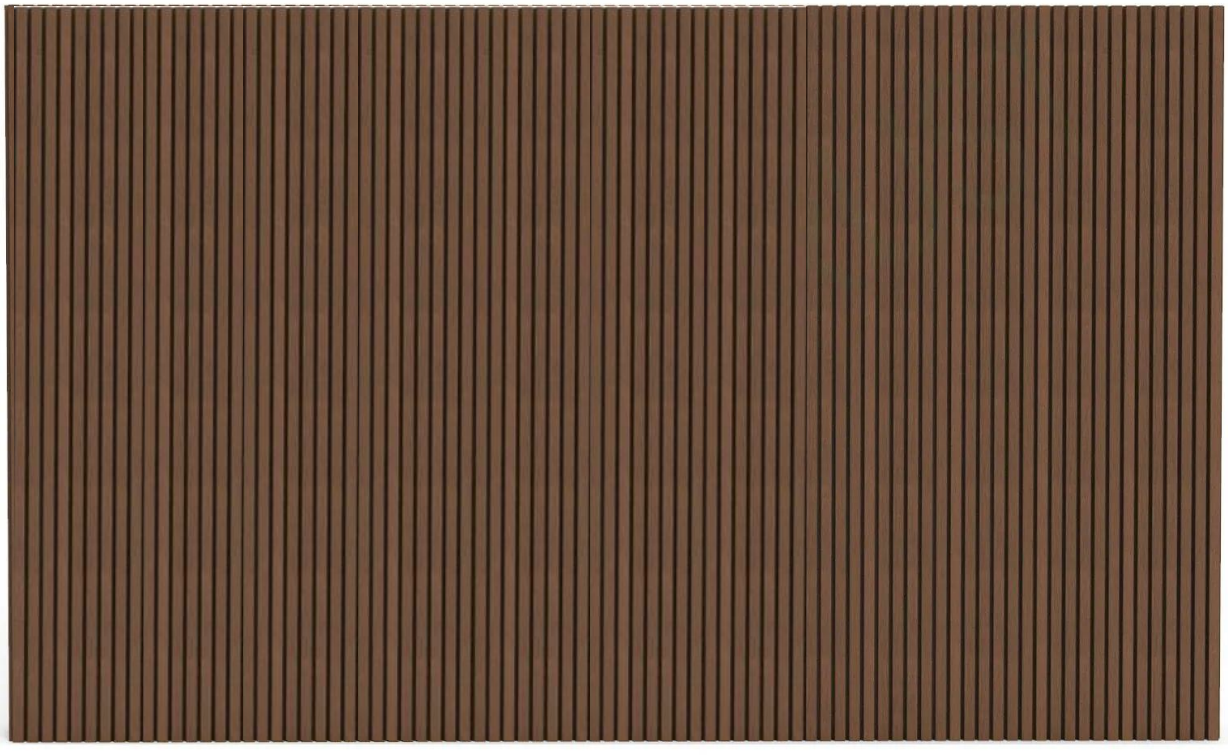
3. Insert the next wall panel into the click of the first wall panel.



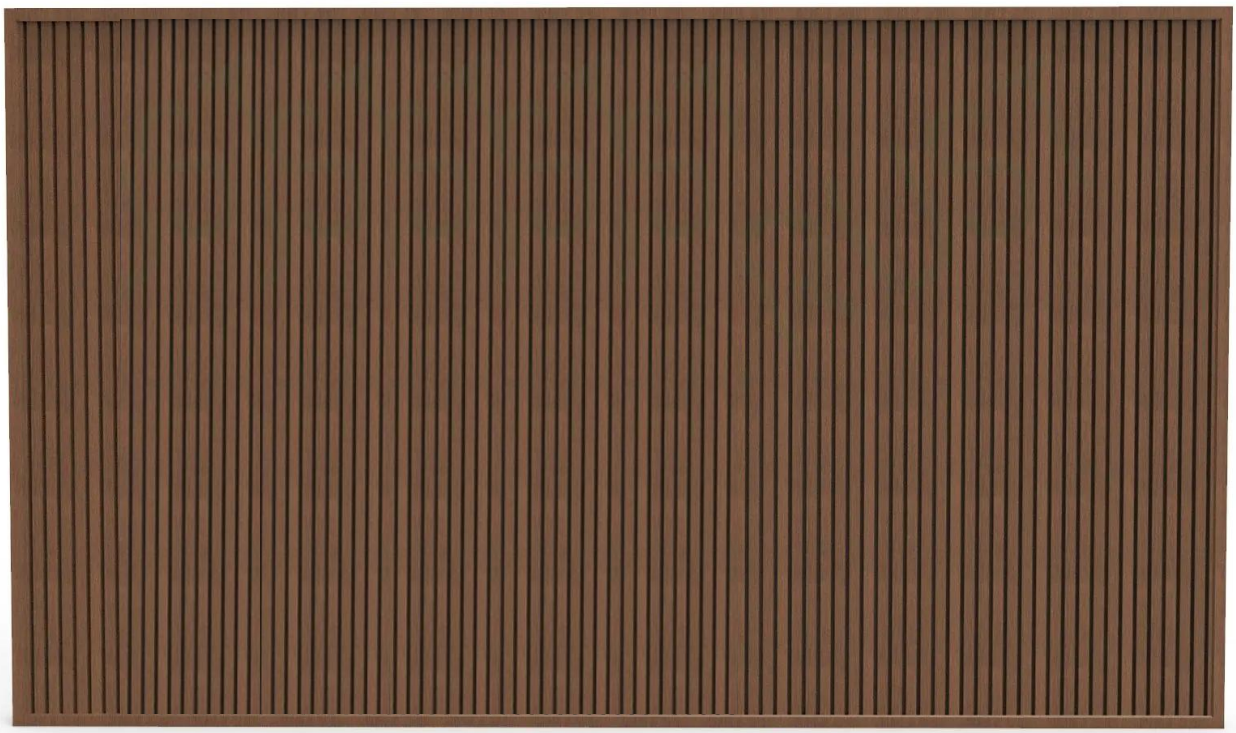
4. Screw the second wall panel to the joist.



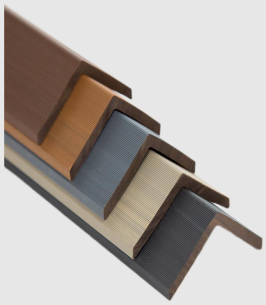
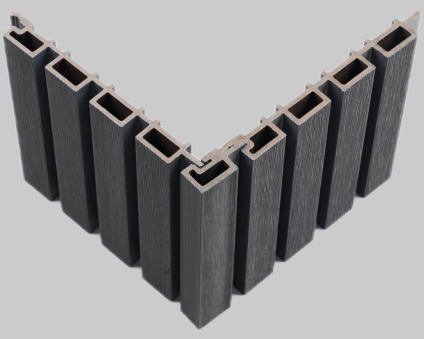
5. Repeat steps 3 and 4.



6. Complete the installation of the entire wall



6. Use accessories at the corners or at the top and bottom to make the overall effect more beautiful and unified.

OUTDOOR WPC ACCESSORY		
NO.	MODEL	PICTURE
1	L-STRIP	 
2	EDGE-STRIP	 

Technical sheet

OUTDOOR WPC WALL PANEL

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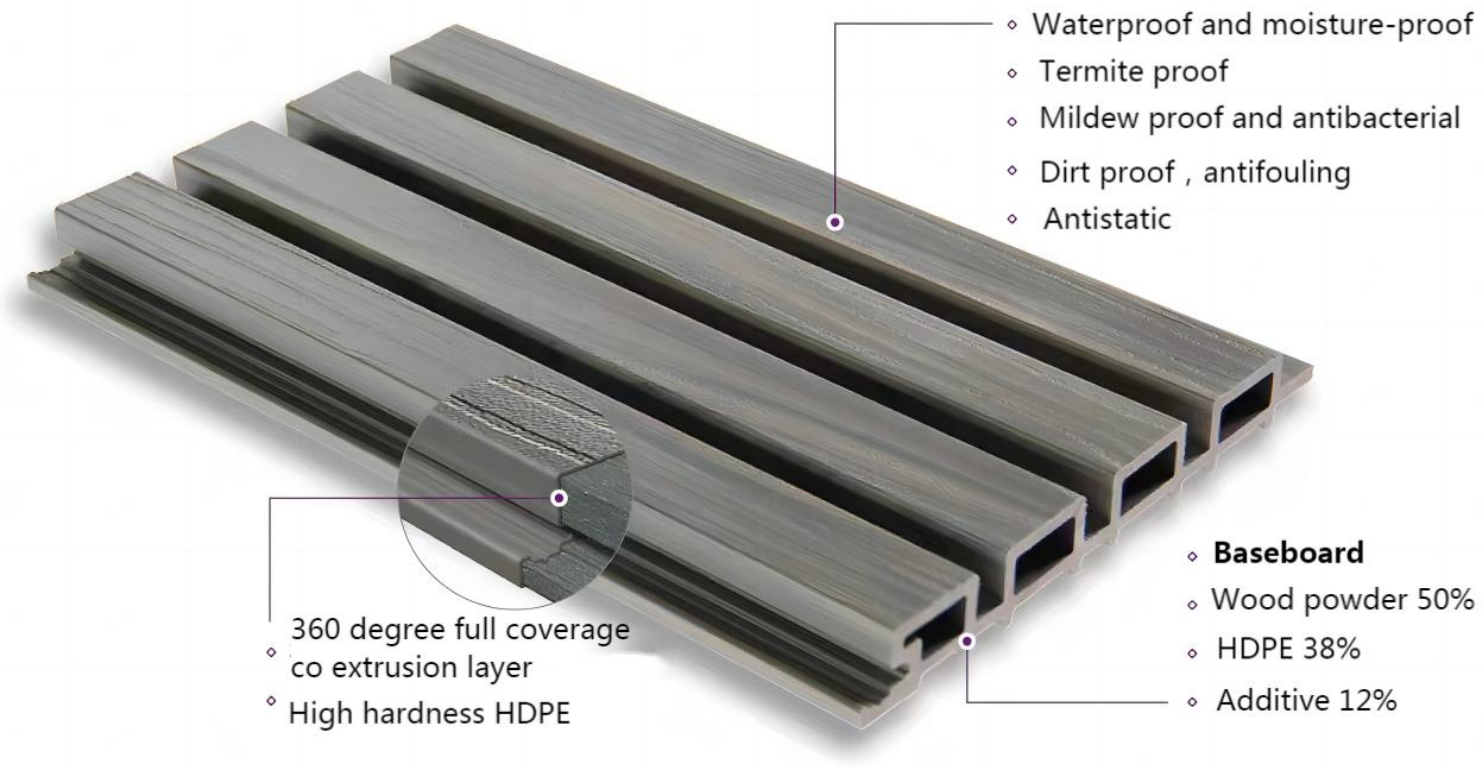

Material	38% HDPE+50% wood fiber + 12% additives
Size/pc	3600*219*26mm
UV layer	With UV layer
Type	Co-extrusion
Eco level	E0 (Formaldehyde-Free）
Fireproof rate	B1
Features	(1) Durable & long last lifetime (2) Anti-termite & mould proof (3) Scratch-resistant, safe for children (4) Waterproof, Fireproof (5) Easy to Install, easy to clean & maintain (6) Weather resistant (7) 20 Years Warranty

Technical sheet

OUTDOOR WPC WALL PANEL

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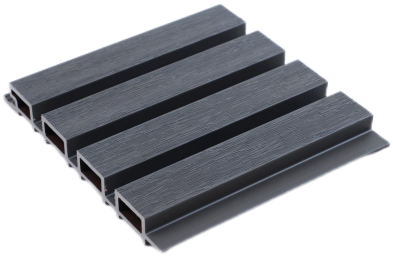
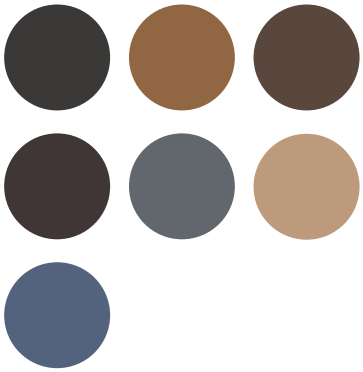
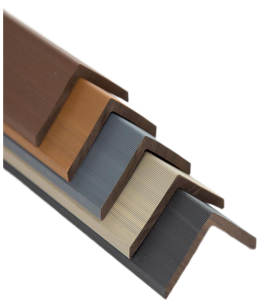
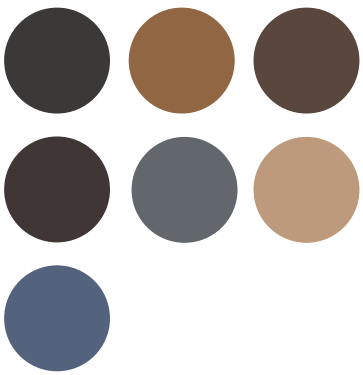
Model	Photo	Dimension
CO-EXTRUSION WPC - BLACK		141.73 x 8.62 x 1.02 in (3600*219*26 mm)
CO-EXTRUSION WPC - TEAK		141.73 x 8.62 x 1.02 in (3600*219*26 mm)
CO-EXTRUSION WPC - COFFEE		141.73 x 8.62 x 1.02 in (3600*219*26 mm)
CO-EXTRUSION WPC - WALNUT		141.73 x 8.62 x 1.02 in (3600*219*26 mm)
CO-EXTRUSION WPC - GREY		141.73 x 8.62 x 1.02 in (3600*219*26 mm)

Technical sheet

OUTDOOR WPC WALL PANEL

ARLUXE

Model	Photo	Dimension
CO-EXTRUSION WPC - OAK		141.73 x 8.62 x 1.02 in (3600*219*26 mm)
CO-EXTRUSION WPC - BLUE		141.73 x 8.62 x 1.02 in (3600*219*26 mm)
CO-EXTRUSION WPC - EDGE TRIM	 	141.73 x 2.20 x 1.02 in (3600*56*26 mm)
CO-EXTRUSION WPC - L TRIM	 	141.73 x 1.96 x 1.96 in (3600*50*50 mm)

Technical sheet

OUTDOOR WPC WALL PANEL

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No.	Property	Test Method	Test Result			Concusion
1	Abrasion Resistance	ASTM D7031-11(2019) Section 5.17&ASTM D4060-19	Weight loss: 24.7mg/1000r			Pass
2	Antimicrobial Activity Test	ASTM G 21-15 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi	Test organism(s)	Concentration of spores (spores/mL)	Rating observed growth onspecimens (after 28 days)	Pass
			*Test organism	1.0x 10^6	0 Grade	
3	Boiling Test	EN 15534-1:2014+ A1:2017 Section 8.3.3	Mass change rate:0.18%			Pass
4	Coefficient of Linear Thermal Expansion	EN 15534-1:2014+A1:2017 Section 9.28 IS011359-1-2014 & ISO 11359-2-1999 Method A	43×10^-6×K^-1			Pass
5	Creep Behaviour - Unknown Span in Use	With reference to EN 15534-1:2014+A1:2017 Section 7.4.2 and dient's requirement	Creep factor (C+) 1.12 Creep recovery (E): 46%			Pass
6	Modulus of Elasticity in Bending and Bending Strength	EN 15534-1:2014+A1:2017 Annex A	Bending strength	36MPa		Pass
			Modulus of elasticity	3730MPa		
7	Resistance to Indentation	EN 15534-1:2014+A1:2017 Section 7.5	Brinell hardness	64MPa		Pass
			Rate of elastic recovery	53%		
8	Rockwell Hardness	ASTM D785-08(2015) Procedure A	72 R			Pass

No.	Property	Test Method	Test Result							Conclusion
9	Single Flame Source Test	EN 15534-1:2014 Section 9.6.1&EN ISO 11925-2:2020	Exposure conditions	Edge exposure			Surface exposure			Pass
			Specimen No.	1	2	3	1	2	3	
			Whether ignition occurs	Yes	Yes	Yes	Yes	Yes	Yes	
			Whether the flame tip reaches 150 mm above the flame application point	No	No	No	No	No	No	
			The time when flame tip reaches 150 mm,s	/	/	/	/	/	/	
			Whether ignition of the filter paper ocours	No	No	No	No	No	No	
10	Striker Impacted by a Falling Weight	With reference to ASTM D4226-19ε1 Procedure A and cient's requirement	Mean failure energy:13.9J							Pass
11	Swelling and Water Absorption	EN 15534-1:2014 Section 8.3.1&EN 317:1993	Test item	Test item Thickness		Width		Length		Pass
			Mean swelling	0.17%		0.01%		0.02%		
			Max individua swelling	0.21%		0.02%		0.03%		
			Mean water absorption	0.05%						
			Max individua water absorption	0.06%						