

PRODUCT BROCHURE

Prefabricated Wall Panel



Guangdong Tianan Integrated Decoration Technology Co.,Ltd.

Majority-owned subsidiary of Tianan New Material (stock no.: **603725. SH**)



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About Us

Guangdong Tianan Integrated Decoration Technology Co., Ltd. is a majority-owned subsidiary of Tianan New Materials.

With Tianan New Materials' eco-friendly polymer decorative materials as its core product line, the company specializes in cutting-edge market research, product development, integrated design, digital operations, and value chain collaboration. Its product portfolio includes customized door-wall-cabinet color matching solutions, wall systems, floor systems, furniture, and soft furnishings. Through innovation-driven initiatives, the company empowers pan-home furnishing brands, small-to-medium-sized interior decoration enterprises, and real estate developers in high-end interior finishing and commercial space projects, facilitating technological and product upgrades for prefabricated interior spaces.

Prefabricated Wall System Solution	Empowering B2B enterprises to diversify their product portfolios
Support for product color matching	Prefabricated product system solution
One-stop prefabricated interior solution	



OUR MAIN SERVICES



Main Services



Market Research



Product Development



Design Integration



Digital Operation



Value supply chain output

PART 02

Prefabricated Wall Panels



Fire-rating Class B

Fire-rating Class A



Product Introduction

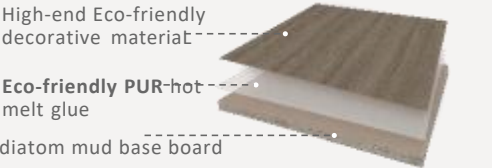


Diatom Mud Wall Panel

Environmental protection technology board (made from bamboo powder, diatom mud, polymer, calcium powder, and other materials)

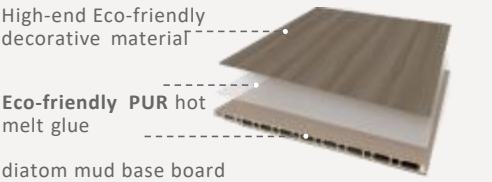
Diatom mud wall panel is an eco-friendly technology panel, which adopts the technology of vapor decoration to cross over high-tech performance. The product reaches the green environmental protection **ENF level**, with superior performance, suitable for various commercial residential space, commercial space, office space, etc., providing residents with safe, comfortable, high-quality and healthy space.

Large-format system-Diatom Mud Solid Panel



size of product :	fire-rating :
Diatomite mud solid panel	Class B1/B2
W1200xH2600xT9(mm)	W1200xH3000xT9(mm)

Standard-format system-Diatom Mud Flat Panel



size of product :	fire-rating :
Diatomite mud flat panel	Class B1/B2
W600xH2600xT9(mm)	W600xH3000xT9(mm)

Decorative Profile system-158 Fluted panel



size of product :	fire-rating :
158 Fluted panel	Class B1/B2
W158xH2600xT9(mm)	W158xH3000xT9(mm)

Product Introduction

Fire-rating Class B Products

Decorative Profile System- 40 half-moon panel



size of product :



W54*H2800*T16(mm)

fire-rating :

Class B1/B2

Decorative Profile System- 60 half-moon panel



size of product :

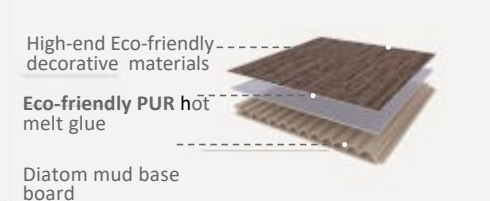


W70*H2800*T15(mm)

fire-rating :

Class B1/B2

Decorative Profile System-130 British style panel



size of product :



W130*H2800*T9(mm)

fire-rating :

Class B1/B2

Decorative Profile System-132 wave panel



size of product :



W136 * H2800 * T9 (mm)

fire-rating :

Class B1/B2

Decorative Profile System-149 fluted panel



size of product :

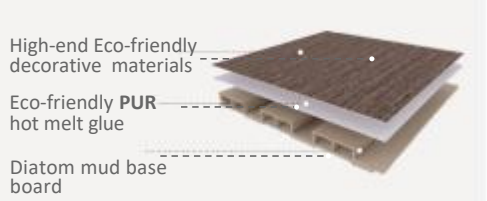


W148 * H2800 * T14 (mm)

fire-rating :

Class B1/B2

Decorative Profile System-204 fluted panel



size of product :



W204 * H2800 * T16 (mm)

fire-rating :

Class B1/B2

Product Introduction

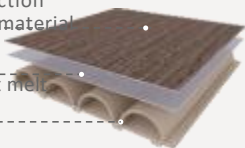
Fire-rating Class B Products

Decorative Profile System-192 Semicircle panel

Environmental protection
highend decorative material

Eco-friendly PUR hot melt glue

Diatom mud base board



size of product :



W192*H2800*T25(mm)

fire-rating :

Class B1/B2

Decorative Profile System-150 Semicircle panel

Environmental protection
highend decorative material

Eco-friendly PUR hot melt glue

Diatom mud base board



size of product :



W150*H2800*T15(mm)

fire-rating :

Class B1/B2

Decorative Profile System-205 concave panel

Environmental protection
highend decorative material

Eco-friendly PUR hot melt glue

Diatom mud base board



size of product :



W205*H2800*T13(mm)

fire-rating :

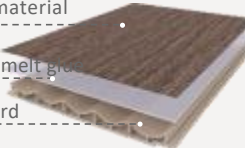
Class B1/B2

Decorative Profile System-150 concave panel

Environmental protection
highend decorative material

Eco-friendly PUR hot melt glue

Diatom mud base board



size of product :



W150*H2800*T12(mm)

fire-rating :

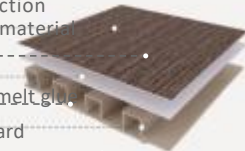
Class B1/B2

Decorative Profile System-160 grid panel

Environmental protection
highend decorative material

Eco-friendly PUR hot melt glue

Diatom mud base board



size of product :



W160*H2800*T20(mm)

fire-rating :

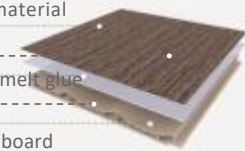
Class B1/B2

Decorative Profile System-180 wave panel

Environmental protection
highend decorative material

Eco-friendly PUR hot melt glue

Diatom mud base board



size of product :



W190*H2800*T15(mm)

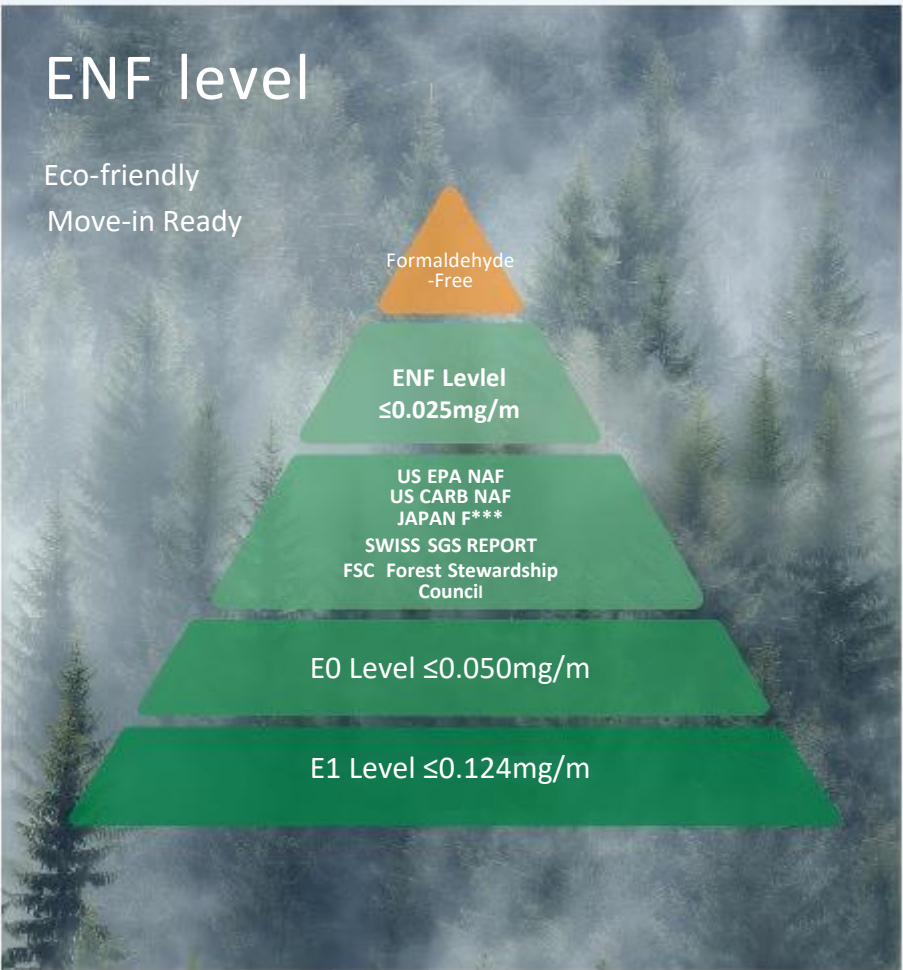
fire-rating :

Class B1/B2

Product advantages

Green and Environmentally Friendly; ENF Level

According to authoritative **SGS** testing reports, our wall panel products meet the formaldehyde emission standards of **ENF level**, with zero release of harmful substances such as formaldehyde and benzene. No heavy metal components were detected, making these materials harmless to human health, recyclable, and environmentally friendly. The products effectively inhibit mold growth, demonstrating outstanding anti-mold performance and antibacterial efficacy. Harmful substances like formaldehyde from renovation stains are the primary "culprits" behind childhood leukemia, with 90 %of leukemia cases linked to home renovations. As specialized materials for children's spaces, our wall panels ensure post-renovation formaldehyde levels below the **0.1 mg/m³** standard set by the Indoor Air Quality Standard, providing children with a safe, comfortable, and conducive independent space for growth and development.



Product advantages

Cross-border Automotive Technology, High-Performance Standards

We develop eco-friendly materials with rigorous environmental technologies for automotive interiors, applying cross-border auto interior material tech to wall panels for superior technical performance.

Efficient Construction, Move-in Ready

TIANAN wall panels offer the advantages of quick installation, simple construction techniques, and short construction periods. The construction period (based on 10-12 square meters) is approximately 2 hours. Spaces that typically require traditional wall panels or wall decoration products for 3 months or more for deodorization and odor removal can be occupied immediately after using our products, significantly saving time costs.

Automotive DNA:
Designing Interior Spaces

Just like building
Automobiles



Quick installation
2 workers, in 2 hours
home change LOOK easily!



PRODUCT ADVANTAGES



**Hypoallergenic and
Antibacterial
Health protection**



**Excellent Weather
Resistance Long-lasting
Fresh Apperance**



**Stain Resistant and
Easy to clean,
Ideal Comfort Choice**

Certification

The company has complete ISO 9001, ISO 14001, ISO 6949 and other quality management system certifications.

Formaldehyde emission:
<0.015 mg/m (achieving EN F level)

Heavy Metal Testing:
soluble lead, soluble cadmium, soluble chromium, and soluble mercury all meet the standards

fire rating:
Class B2 (acheived to Class B1 as customzied)

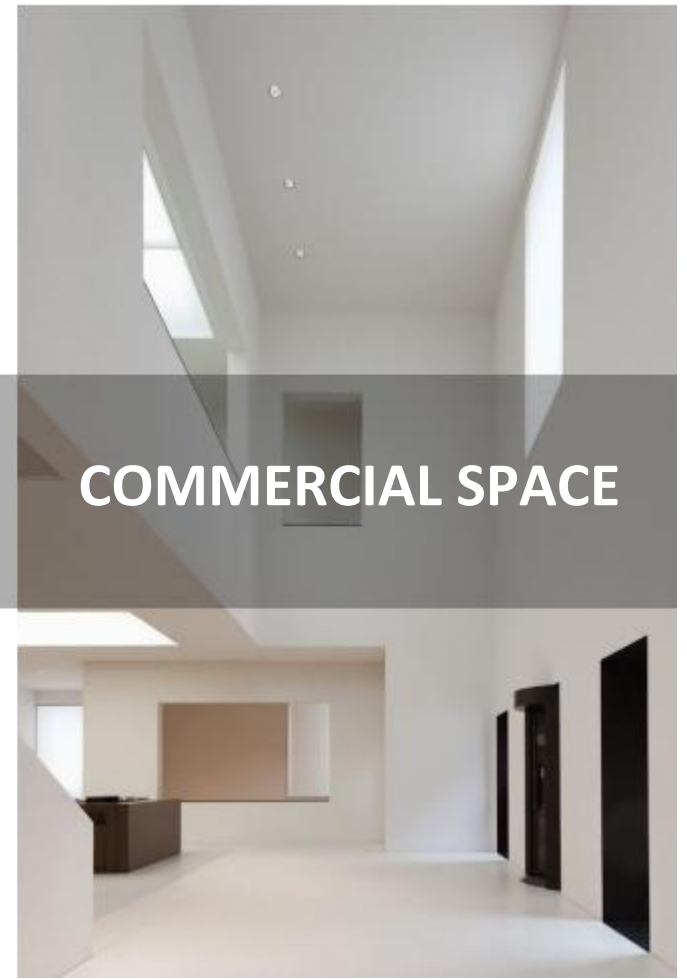
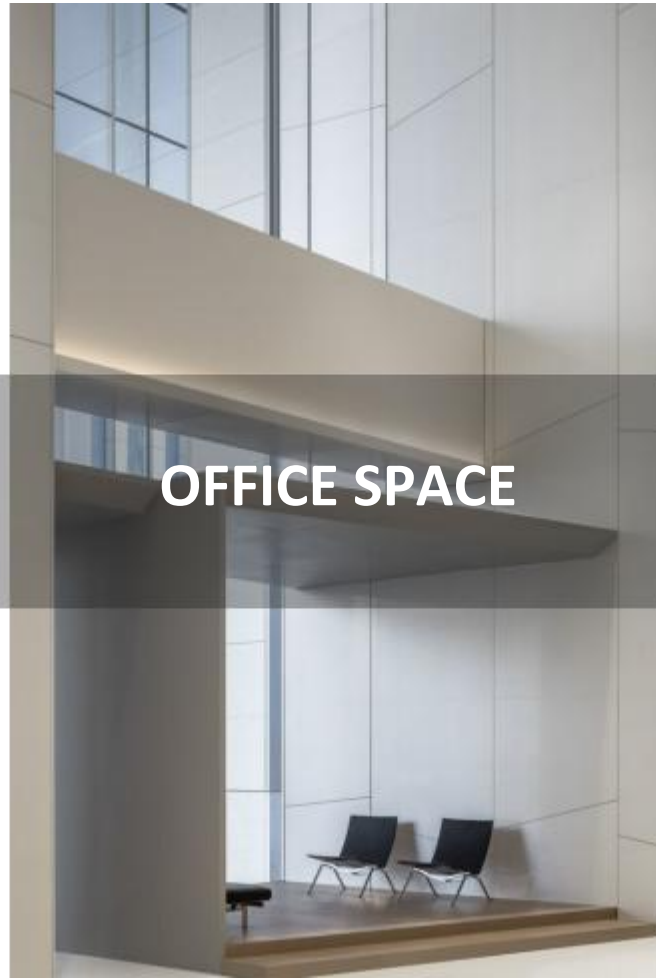
Physical property monitoring:
The moisture content, dimensional stability, water absorption thickness expansion rate, and Shore hardness all meet the standards. The flexural strength is **21 .4 (MPa)**, the flexural elastic modulus is **3 378 (MPa)**, and the peel strength is **5 3N**.



CERTIFICATES

Physical Property Testing II Physical Property Testing I fire Resistance Test Report Heavy Metal Test Report Formaldehyde Test Report

Application



Product Introduction

Calcium Silicate Panel

The Calcium Silicate Panel is based on asbestos-free fiber-reinforced calcium silicate board, and its surface can be bonded with fireproof finish or Tianan Eco-friendly high-end finish material by **PUR** hot melt glue. The product has a dense structure and superior fireproof performance. It does not contain formaldehyde, benzene,**VOC** heavy metals and other harmful substances to human body. It is a new type of green building material with excellent performance.

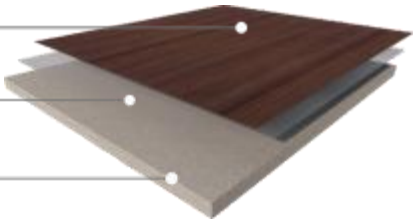
Product Structure

High-end Eco-friendly

finishing material

PUR hot melt technology

calcium silicate base board



Product Size

W1220xH2440xT6/8 mm

W1220xH3000xT6/8 mm

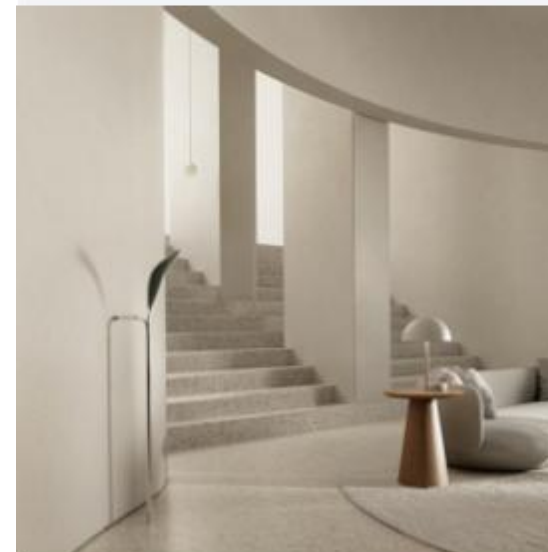


Product advantages

Fireproof and Durable

The product is non-combustible board, which can be added with fireproof finish to achieve fire rating class A.

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PRODUCT ADVANTAGES



Mold resistant and Antibacterial
Non-Toxic and Odorless

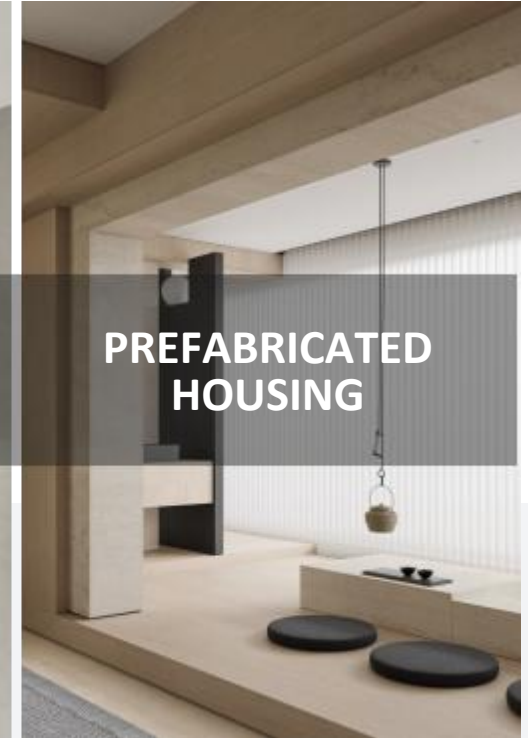


Stain Resistant and Easy to clean
Waterproof and Moisture Resistance



Alcohol/Iodine resistant
Excellent structural integrity

Application



PART 03

Product Catalog



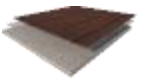
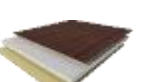
01 Fire-rating products Class A and Class B

02 Fluted panels

03 Matching lines



Product Catalog

Product name	Picture	Product cross-section	Optional base material	Product size	Custom Fomular	fire rating	Package	Package quantity	Warranty	Lifespan
Calcium Silicate Panel			Calcium silicat board	W1220*H2440/3000*T6/8mm	/	Class A	Carton + EPE foam	80/100 pcs/pallet	1 year	More than 10 years
TAIKA			Non combustible high pressure resin board	W1220*H2440/3050*T3mm	/	Class A	Carton + EPE foam	80/100 pcs/pallet	1 year	More than 10 years
MEDI-TOUCH			Inorganic core board	W1220*H2440/3050*T5/8mm	/	Class A	Carton + EPE foam	80/100 pcs/pallet	1 year	More than 10 years
Large-format system			Diatom mud board	W1200*H2600/2800/3000*9mm	Regular/E-co Friendly/ fire resistant	B1/B2	Carton + EPE foam	3 pcs/pack	1 year	More than 10 years
			Carbon Crystal board							
			Anti-collision board							
Standard-format system			Diatom mud board	W600*H2600/3000*T9mm	Regular/E-co Friendly/fire resistant	B1/B2	Carton + EPE foam	7 pcs/pack	1 year	More than 10 years
			WPC board							
4 0 half - moon pane			Diatom mud board	W54*H2800*T16mm	Regular/E-co Friendly/fire resistant	B1/B2	Carton + EPE foam	20 pcs/pack	1 year	More than 10 years
			WPC board							
60 half - moon panel			Diatom mud board	W136*H2800*T9mm	Regular/E-co Friendly/fire resistant	B1/B2	Carton + EPE foam	20 pcs/pack	1 year	More than 10 years
			WPC board							
132 Wave panel			Diatom mud board	W136*H2800*T9mm	Regular/E-co Friendly/fire resistant	B1/B2	Carton + EPE foam	12 pcs/pack	1 year	More than 10 years
			WPC board							
149 fluted panel			Diatom mud board	W148*H2800*T14mm	Regular/E-co Friendly/fire resistant	B1/B2	Carton + EPE foam	10 pcs/pack	1 year	More than 10 years
			WPC board							

Product Catalog

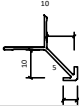
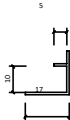
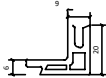
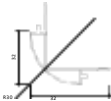
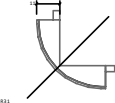
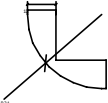
Product name	Picture	Product cross-section	Optional base material	Product size	Custom Fomular	fire rating	Package	Package quantity	Warranty	Lifespan
130 British-style panel			Diatom mud board	W130*H2800*T9mm	Regular/E-co Friendly/fire resistant	B1/B2	Carton + EPE foam	10 pcs/pack	1 year	More than 10 years
			WPC board							
158 fluted panel			Diatom mud board	W158*H2600/3000*T9mm	Regular/E-co Friendly/fire resistant	B1/B2	Carton + EPE foam	10 pcs/pack	1 year	More than 10 years
			WPC board							
192 Semicircle panel			Diatom mud board	W192*H2800*T25mm	Regular/E-co Friendly/fire resistant	B1/B2	Carton + EPE foam	8 pcs/pack	1 year	More than 10 years
			WPC board							
150 Semicircle panel			Diatom mud board	W150*H2800*T15mm	Regular/E-co Friendly/fire resistant	B1/B2	Carton + EPE foam	10 pcs/pack	1 year	More than 10 years
			WPC board							
205 concave panel			Diatom mud board	W205*H2800*T13mm	Regular/E-co Friendly/fire resistant	B1/B2	Carton + EPE foam	10 pcs/pack	1 year	More than 10 years
			WPC board							
150 concave panel			Diatom mud board	W150*H2800*T12mm	Regular/E-co Friendly/fire resistant	B1/B2	Carton + EPE foam	12 pcs/pack	1 year	More than 10 years
			WPC board							
160 grid panel			Diatom mud board	W160*H2800*T20mm	Regular/E-co Friendly/fire resistant	B1/B2	Carton + EPE foam	12 pcs/pack	1 year	More than 10 years
			WPC board							
180 wave panel			Diatom mud board	W190*H2800*T15mm	Regular/E-co Friendly/Fire resistant	B1/B2	Carton + EPE foam	10 pcs/pack	1 year	More than 10 years
			WPC board							
204 fluted panel			Diatom mud board	W204*H2800*T16mm	Regular/E-co Friendly/fire resistant	B1/B2	Carton + EPE foam	10 pcs/pack	1 year	More than 10 years
			WPC board							

The Profiles

NO.	Item Name	Item code	Diagram	Dimentions (meters/pcs)	Color
1	C-shaped trimming line	HXT0000522 (Matte Black)		2.8 m / p c s	
2	1.0 Modular Wire Base	HXT0020522 (Matte Black)		2.8 m / p c s	
3	2.0 Modular Wire Base	HXT0030522 (Matte Black)		2.8 m / p c s	
4	Separated Trim cover	HXT0010522 (Matte Black)		2.8 m / p c s	
5	I-shaped joint trim	HXT0050522 (Matte Black)		2.8 m / p c s	
6	11mm Cross shaped joint trim	HXT0060522 (Matte Black)		2.8 m / p c s	

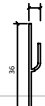
NO.	Item Name	Item code	Diagram	Dimentions (meters/pcs)	Color
7	9mm Cross shaped joint trim	HXT0770522 (Matte Black)		2.8 m / p c s	
8	2.0 Hidden I- joint Trim	HXT0570522 (Matte Black)		2.8 m / p c s	
9	Recessed Ceiling Trim	HXT0450522 (Matte Black)		3.0 m / p c s	
10	Flat External Corner Trim	HXTJM1350001 (Raw blank)		3.0 m/pcs	
11	New Chinese Style Modular Trim Cover	HXT0760001 (Raw blank)		2.8 m / p c s	
12	F-shaped External Corner Trim (for Household)	HXT0070522 (Matte Black)		2.8 m / p c s	

The Profiles

NO.	Item Name	Item code	Diagram	Dimintions (meters/PCS)	Color
13	Arrow-Shaped External Corner Trim	HXT0090522 (Matte Black)		2.8 meters per branch	  
14	F-shaped External Corner Trim (for Commercial)	HXT0080522-B (Matte Black)		2.8 meters per branch	  
15	WPC External Corner Trim	HBA00550001 (Raw blank)		3.0 meters per unit	
16	R30 Curved External Corner Trim	HXT0390001 (Raw Blank)		3.0 meters per unit	  
17	Curved External Corner Trim Accessories for Skirting	HXT0590522 (Matte Black)		3.8*3.8*3 cm	
18	Curved External Corner Trim Accessories for Ceiling	HXT0000522 (Matte Black)		3.8*3.8*3 cm	
 brass  matte black  color-matched  white  stainless steel					

NO.	Item	Item code	Diagram	Dimintions (meters/PCS)	Color
19	60mm WPC External Corner Trim	HBA005230000001 (Raw blank))		3.0 meters per unit	
20	LED Skirting Profile	HXT0920522 (Matte Black)		2.5 meters per branch	
21	Curved Illuminated Trim	HXT1340001 (Raw blank))		3.0 meters per unit	
22	Flat Splicing Illuminated Trim	HXT1330001 (Raw blank)		3.0 meters per unit	
23	Seam Trim for Light Strip	HXT0180522 (Matte Black)		2.8 meters per branch	
24	Stepped LED Profile	HXT11N 130522 (Matte Black)		2.8 meters per branch	
brass color matte black color-matched white stainless steel					

The Profiles

Item No.	Item Name	Item code	Diagram	Dimentions (meters/PCS)	Color
25	Semi-Circular Stepped LED Profile	HXTFSXP1130001 (blank)		3.0 meters per unit	  
26	Curved Internal Corner Trim	HXT0920522 (Matte Black)		2.8 meters per branch	  
27	J-shaped Skirting line	HXT1140001 (embryo)		3.0 meters per unit	  
28	Recessed Decorative Trim	HXT0540522 (Matte Black)		2.8 meters per branch	  
29	Flat Cover Decorative Trim Clip-style	Hk001		46*50* 10MM	
30	Clips	Hk000		36*5MM	
 brass  black  color-matched  white  stainless steel					



PART 04

Color Display



**Solid Color series / Metallicseries /
Wood grain seriees / Fabric series /
Leather series / Marble series /
3D digital customization / Embroidery series /
PET continuous Marble series**



Color Display



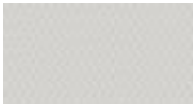
Scan for more color display



Scan for more background wall collections

Solid Color series

DA4904EN-B10



DA91088UN-RF43

DA41811UN-RF42



DA9855EN-M153



DAE2004US-RF23



DGA9795P-RF7

Fabric Series

DA70300-947



DA50906-920

DA70302-947



DA79100US-948

DA74000US-RF11



DA79101US-948

3D digital customization

ZS004



ET053

ZS079



Et013

ZS069



ET042

Metal Series

QT0191



QT0284



QT0189



QT0285



QT0190



QT0283



Leather series

D02003-QYB6



D06607-QTAJ



D02781-QTAJ



D06606-0TAJ



DA6305EN-ED01



D02780-QTAJ



Wood Grain Series

DDM15600-MK35



DDM59004-M5



DDM77001-MK35



DA84026-MK45



DDM27802-M100



DDM59001-M5



Marble series

QT0294



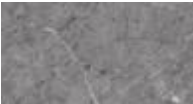
DRA43905-911



DRA72800-955



QT0295



DRA55900-934



QT0175



PET continuous Marble series

UM002



UM005



UM009



UM054



UM018



UM088



Embroidery Series

YX001



QX00 1



YX002



Qx002



YX003



QX003



PART 05

Process Structure

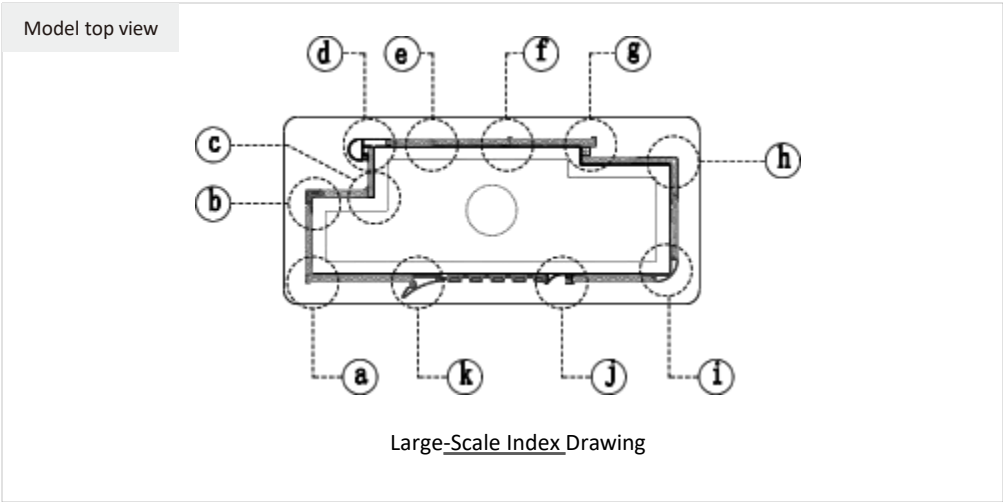


01 、 600mm panel process structure

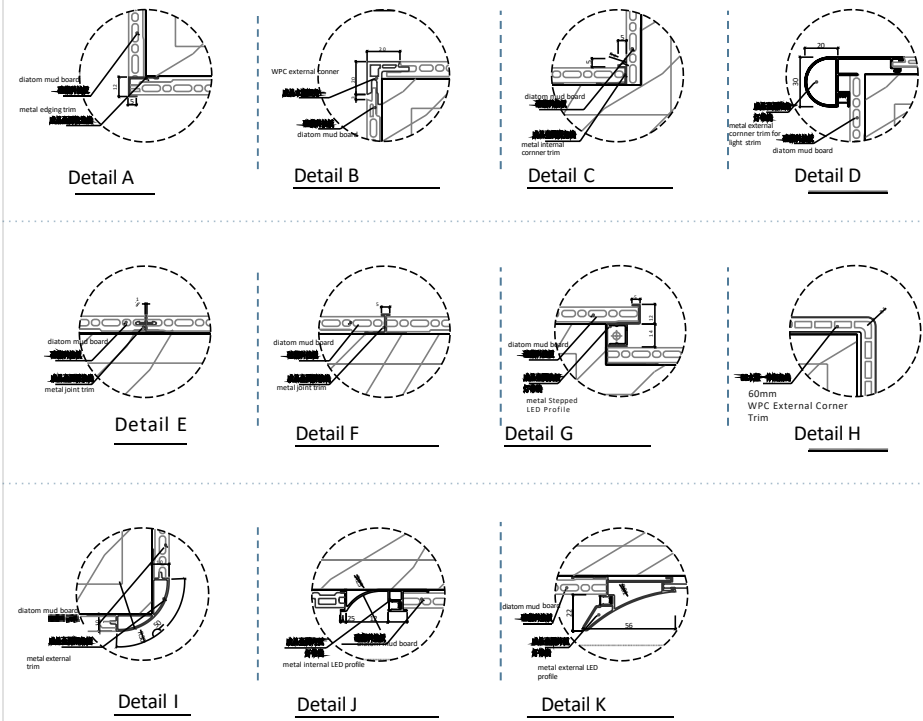
02 、 1200mm panel process structure



Standard Model

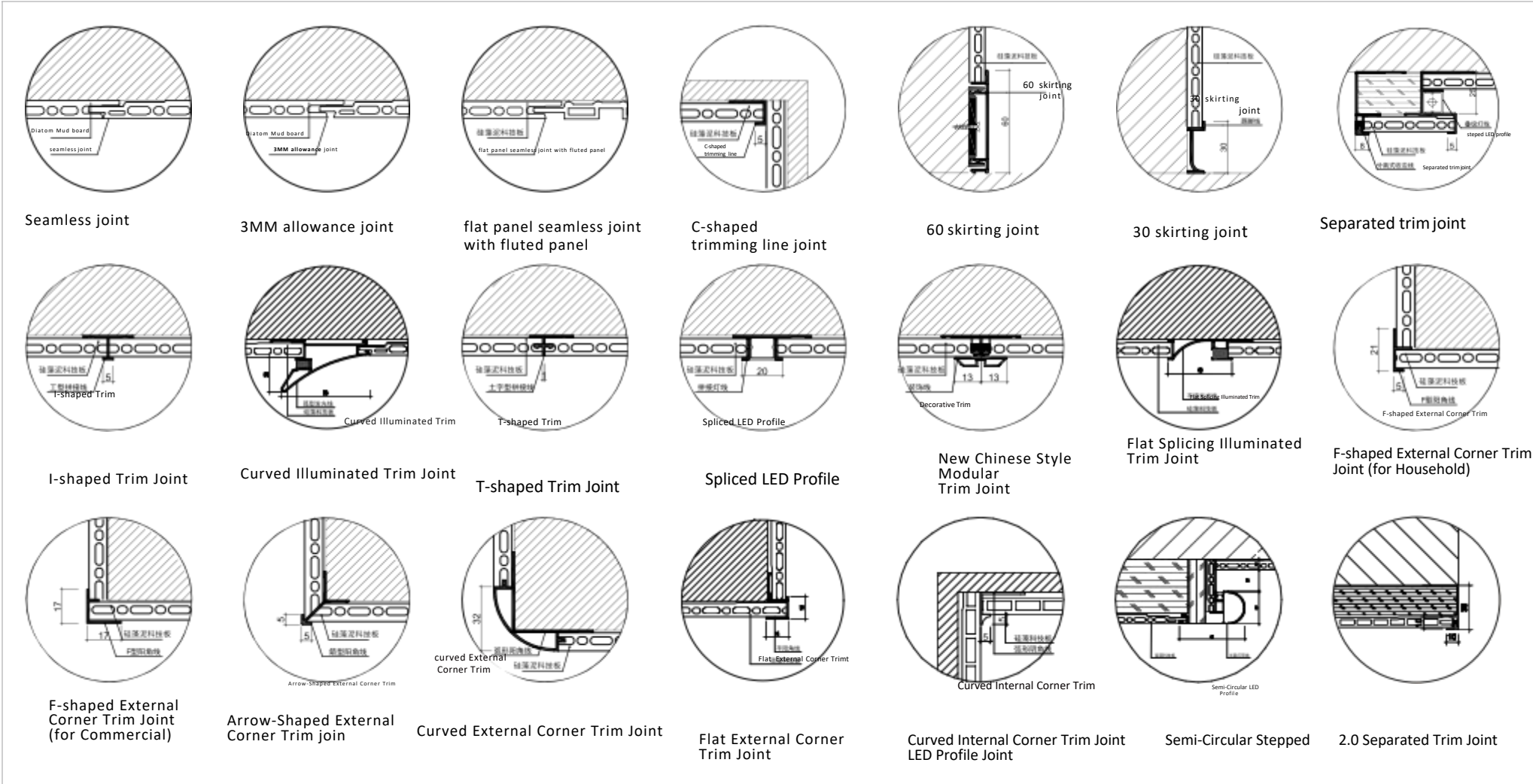


Model joint detail

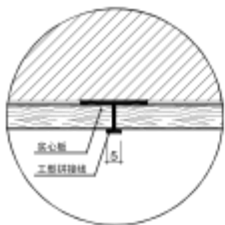


Process Structure

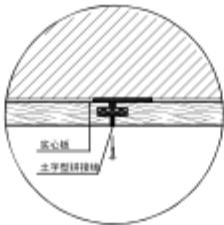
600mm panel process structure



Process Structure



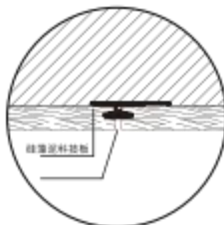
I-shaped Trim Joint



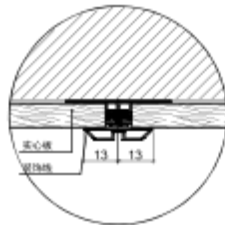
double female groove joint



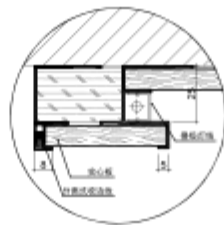
double female groove joint with allowance joint



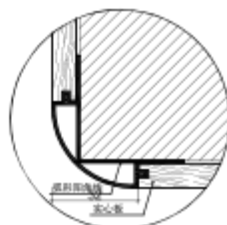
Hidden I-joint Trim Joint



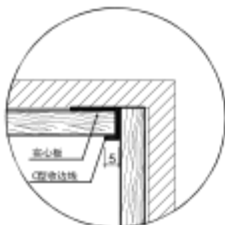
New Chinese Style Modular Trim Joint



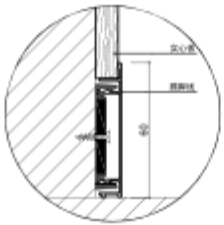
Separated Trim Joint



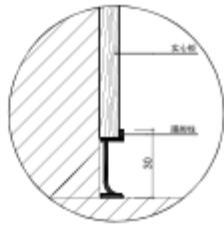
Curved External Corner Trim Joint



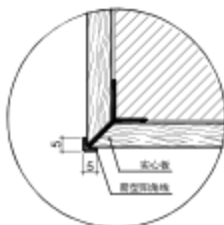
C-shaped trimming line joint



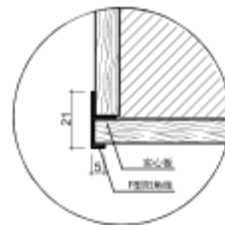
60 skirting joint



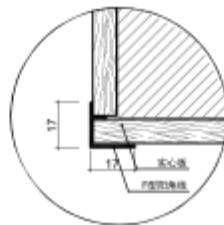
30 skirting joint



Arrow-Shaped External Corner Trim joint



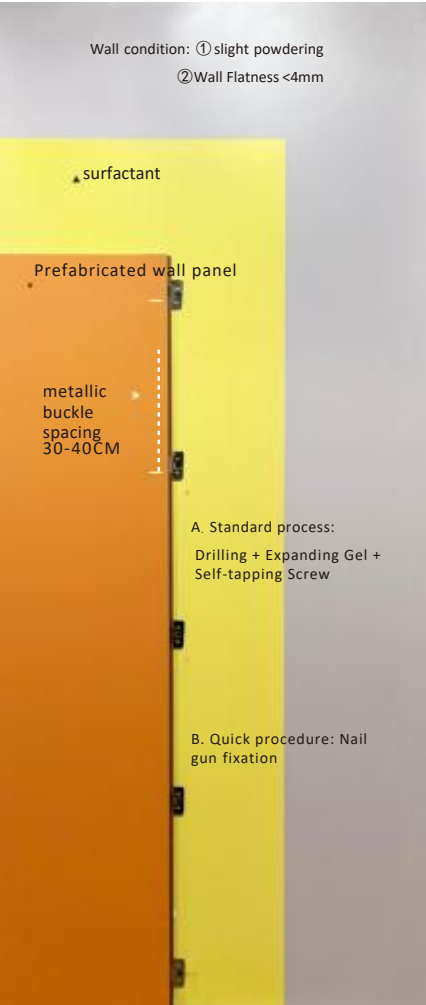
F-shaped External Corner Trim Joint (for Household)



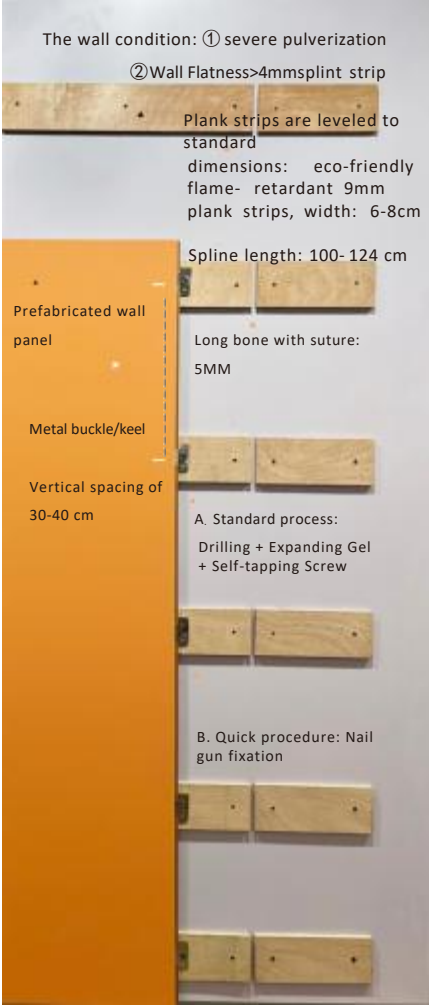
F-shaped External Corner Trim Joint (for Commercial)

Installation Process

Panel installation



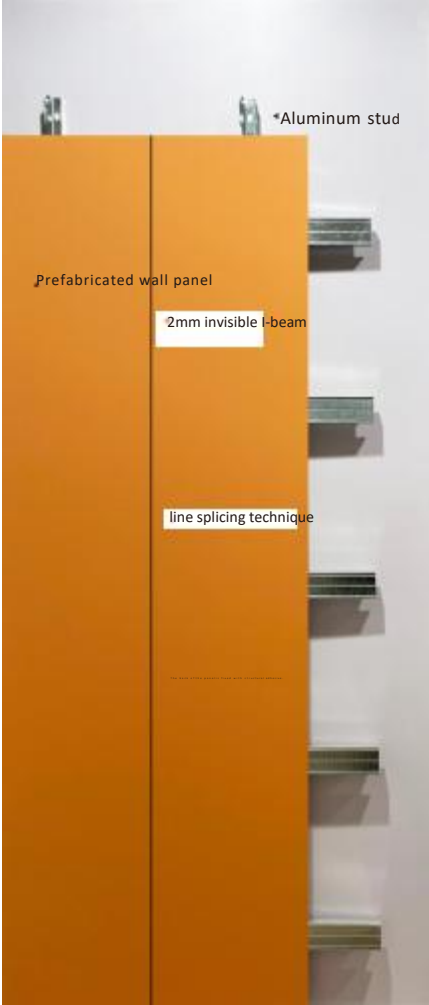
Situation Direct installation of the original base panel



Situation 2 Wood clamp strip bottom installation



Situation 3 Wood clamping board installation



Situation 4 Real. Board hit bottom installation

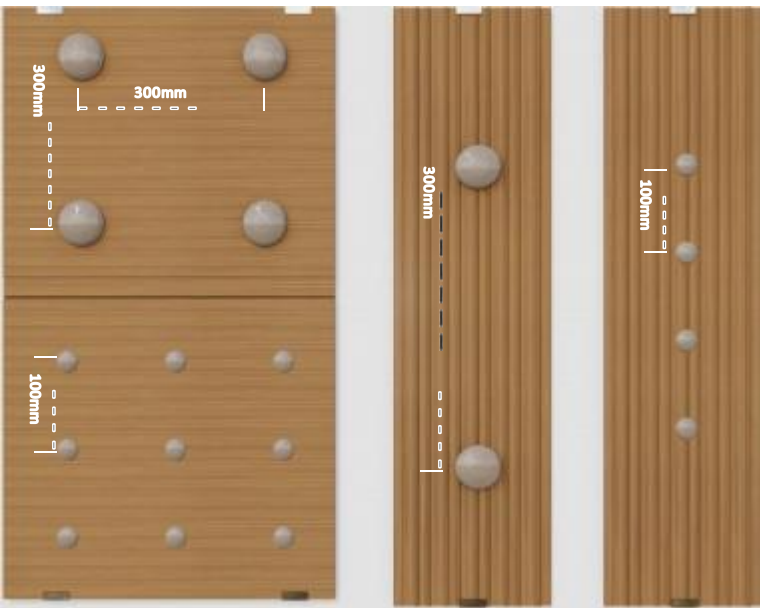
Installation process

Mark Standard for Wall Panels / Strips



- 1 Base category:load bearing wall
Applicable screws:6mm plastic expansion pipe screw installation
interval:300mm
- 2 Base category:brick wall
Applicable screws: ST18 steel nail installation
interval:300mm
- 3 Base category:Plasterboard wall
Applicable screws:Ordinary carpenter's nail installation
interval:300mm

Board COATING STANDARDS



Display the adhesive application process at standard scale
Method 1:

Mark a point every 300mm, with a 20mm×20mm area.

Method 2:

The spacing is 100mm, with a size of 10mm×10mm and a thickness of 10mm.

(Note: Our company has strict requirements for the environmental parameters of structural sealants, and we recommend using silane-modified sealants as the standard material.)

Product Installation Notes

1. The wall dimensions do not match the design drawings. We should promptly contact the client to discuss a feasible solution.
 2. When multiple trades are involved on-site, it is essential to ensure proper sequencing and process coordination among each trade. Strictly follow the sequence of natural flowers/ground → wall panels → interior doors → custom cabinets to avoid structural process conflicts. Prior to arranging wall panels, thoroughly clean the site environment to prevent contamination of wall finishes.
 3. For aluminum alloy cutting, use professional tools with precise angle alignment to ensure a sharp blade and clean cuts.
 4. Professional cutting and finishing tools must be used for sheet metal cutting to ensure vertical cuts without burrs.
 5. Due to the complexity of wall installation, avoid cutting all panels at once after repeated measurements. Each wall panel must undergo wall measurement before installation to determine the final precise cutting dimensions. Obstacle holes require accurate dimensional positioning prior to cutting.
- For 6.60cm assembled wall panels, the minimum required number of continuous tightly joined panels is ≤6. If more than 6 panels are used, expansion joints must be left or metal decorative lines should be applied for separation. For solid color B10 products, special usage instructions are provided in the appendix due to their unique characteristics.
7. For wall panel fixation, use steel panelclips. When installing screws or nails, ensure precise alignment to prevent misalignment or over-tightening, which could cause the clips to warp and deform, resulting in uneven positioning of the joints.
 8. The wall surface for panel installation must be properly leveled; otherwise, color variations may occur due to changes in light refraction angles.
 9. The optimal installation temperature for wall panels is 15° C-34° C indoors. Installation should be avoided during extreme cold or heat conditions, as environmental factors may compromise product stability and cause excessive expansion or contraction in joint gaps.
 10. Wall panels should not be directly exposed to ceilings. Using edge trim lines can conceal installation irregularities caused by manual cutting. If ceiling lines must be omitted, transparent or matching-colored glass strips should be installed to join the panels to the ceiling.
 11. When glass strip lines are required due to wall imperfections, transparent or matching-colored glass strips should be selected. These should be thin, uniform, and finely crafted to ensure overall aesthetic appeal.

Product Usage Precautions

1. Dust removal: Use a clean soft cotton cloth, dampen and wring it to wipe. The damp cloth reduces friction, prevents scratches on the wall panel surface, and helps minimize static electricity that attracts dust, making it easier to remove dust from the wall panel.
2. Promptly wipe stains: When the surface of the wall panel is stained or marked with writing, it should be wiped promptly to maintain the aesthetic appearance of the wall. For oil stains, a clean soft cotton cloth dipped in a small amount of dishwashing liquid can be used for wiping, or approximately 50% alcohol can be sprayed on the stain area before wiping with a nano sponge.
3. Avoid strong acids, strong alkalis, and solvents: The use of strong acids, strong alkalis, or solvent-based products for wiping the decorative surface of wall panels is strictly prohibited.
4. Prevent sharp objects from scratching or damaging the decorative wall panels.
5. Heavy load attachment: If heavy loads need to be attached to the partition wall in later stages, drilling holes and using expansion bolts to fix them to the original weighing wall is required. The partition wall cannot be used as a weighing wall.
6. No waxing required: The wall panel does not need surface waxing treatment.
7. Caution with high temperatures and open flames: Keep high temperatures or open flames away from wall panels to prevent surface deformation or ignition.
8. Avoid prolonged direct sunlight exposure and high-temperature environments: Ensure wall panels are not exposed to direct sunlight for extended periods, implement proper sun protection measures, and ventilate by opening windows as needed. Prevent overheating in enclosed spaces, as this may lead to fading and thermal expansion- induced blistering of materials.

Instructions for Use of Pure Color Skin Care Products

Precautions for the use of solid color B10 skin sensation products:

The installation and delivery quality of solid-color wall panel products, which require extremely high standards for panel flatness and joint

density, is closely related to spatial design applications, wall surface finish, installation techniques, ambient lighting angles, and indoor lighting conditions. To ensure controllable installation outcomes and enhance customer satisfaction, the following application conditions are established for this product. Enterprises and designers are advised to consider these factors when designing and applying this type of product:

(1) For solid-color B10 skin-texture products, continuous dense stitching or natural seam stitching should be limited to <3 pieces. For lengths exceeding 1.8 meters (3 pieces), additional components like metal wires and shaped panels should be incorporated to enhance the design, creating a more three-dimensional and diverse product solution that breaks the monotony of solid-color effects.

(2) For indoor flooring solutions requiring uniform coverage, please select solid color products instead of plain (B10 plain weave) options. We will supplement our best-selling solid color products with additional textured variants.

(3) For the installation of solid-color B10 skin-textured products, the wall surface must maintain a flatness of ≤2mm (as verified by a 2-meter height difference test). If the flatness requirement is not met, the wall panel must first be leveled before installation. These specifications are designed to ensure superior final product quality and minimize after-sales complaints. Should any quality issues arise during delivery—such as gap size, shadowing, panel flatness, light-arc curvature, or color variation—our company will neither accept complaints nor assume liability. All enterprises and designers are hereby notified to cooperate with our response plan to guarantee high-quality product delivery.

Standard of fire rating Class B Product

Test item			Types of base material			Test method	Remarks
		WPC board	Anxin board	Diatomaceous mud board			
Surface	Bubble (dust point, particle point, etc., convex point)	Allow 2 per square meter with a diameter not exceeding 1mm	Allow 2 per square meter with a diameter not exceeding 1mm	No obvious bubbles or protrusions should be present.	Visual inspection of 0.8- 1mm particles	Corporate Standards	
	Bubbling, wrinkling	panelsurface is not allowed to appear	panelsurface is not allowed to appear	panelsurface is not allowed to appear			
	Flaw	Not obvious, with no more than 5 lesions per square meter of panelsurface	Not obvious, with no more than 5 lesions per square meter of panelsurface	Not obvious, with no more than 3 lesions per square meter of panelsurface			
	Impress	Slight indentations within 3mm are permissible on the head and tail of the panel.	Slight indentations within 3mm are permissible on the head and tail of the panel.	Slight indentations within 3mm are permissible on the head and tail of the panel.			
	Scratch	Mild, with a length not exceeding 10 mm, and no more than 3 lesions per square meter of the panelsurface.	Minor, with a length of no more than 10mm and no more than 2 spots per square meter of the board surface.	Mild, with a length not exceeding 10 mm, and no more than 2 lesions per square meter of the panelsurface.			
	Edge defect	No more than 5mm, and does not affect the male-female groove joint	No more than 5mm, and does not affect the male-female groove joint	No more than 5mm, and does not affect the male-female groove joint			
	Groove film cover distance	The distance between the membrane and the groove edge should not exceed 3 mm.	The distance between the membrane and the groove edge should not exceed 3 mm.	The distance between the membrane and the groove edge should not exceed 2 mm.			
	Cracking of EBPP paper (renewed PP)	No more than 5mm, and does not affect the male-female slot joint	No more than 5mm, and does not affect the male-female slot joint	No more than 5mm, and does not affect the male-female slot joint			
Dimensions	Length	The absolute difference between the average length and the nominal length does not exceed 10 mm.	The absolute difference between the average length and the nominal length does not exceed 10 mm.	The absolute difference between the average length and the nominal length does not exceed 10 mm.			
	Width	The average width is ±1mm from the nominal width.	The average width is ±1mm from the nominal width.	The average width is ±1mm from the nominal width.			
	Thickness	The average thickness is ±0.2mm from the nominal thickness of the finished product.	The average thickness is ±0.2mm from the nominal thickness of the finished product.	The average thickness is ±0.2mm from the nominal thickness of the finished product.			
	Planeness	The gap must not exceed 0.8mm	The gap must not exceed 0.8mm	The gap must not exceed 0.8mm			
	Splicing height difference	≤0.6mm	≤0.6mm	≤0.4mm			
	Cross-reference	≤0.6mm	≤0.6mm	≤0.4mm			
	Crop size (length)	No request	No request	The absolute difference between the nominal length and each measurement value does not exceed 2 mm.			
	Crop size (width)	No request	No request	The absolute difference between the nominal length and each measurement value does not exceed 2 mm.			
Print pattern offset	No request	≤0.5mm	≤0.5mm				
Physical property	Dimensional stability	≤1.5%	≤1.5%	≤1.5%	GB/T 17657-2013	Guo Biao	
	Rate of water content	≤2.0%	≤2.0%	≤2.0%	GB/T 17657-2013		
	Absorbent thickness expansion rate	≤0.5%	≤0.5%	≤0.5%	GB/T 17657-2013		
	Shore hardness	≥55HD	≥55HD	≥55HD	GB/T 2411		
	Flexural modulus of elasticity	≥1800MPa	≥1800MPa	≥1800MPa	GB/T 17657-2013	Corporate Standards	
	Flexural strength	Average value: ≥10.7MPa	Average value: ≥13MPa	Average value: ≥15 MPa	GB/T 17657-2013		
	Shear force	≥15N	≥15N	≥20N	LY/T 1279-2008		
Limit of harmful substance	Formaldehyde emission	E0 level: ≤0.050 mg/m ³	ENF grade: ≤0.025 mg/m ³	ENF grade: ≤0.025 mg/m ³	GB/T 39600-2021	Guo Biao	
	Heavy metal content	Soluble lead	No request	≤90 mg/kg (meeting the standard)	≤90 mg/kg (meeting the standard)		GB 18584
		Soluble cadmium	No request	≤75 mg/kg (meeting the standard)	≤75 mg/kg (meeting the standard)		
		Soluble chromium	No request	≤60 mg/kg (meeting the standard)	≤60 mg/kg (meeting the standard)		
		Soluble mercury	No request	≤60 mg/kg (meeting the standard)	≤60 mg/kg (meeting the standard)		
Remarks :	1. The panel surface may develop subtle translucency and slight protrusions due to natural ambient light exposure, which is a normal occurrence. These surface imperfections will improve once the curtain, cabinet downlight, and other home decor elements are installed. 2. Visual color variations in non-monochromatic finished products (e.g., printed PP, EBPP paper, printed PVC, fabrics) are normal due to differences in the left-right grain patterns (or weaving) of the printing rollers, with only single-side color variations within the same batch being controlled. 3.600 Bamboo-wood fiberboard should not be covered with finishes that highlight substrate imperfections, such as textured or light-grain finishes. 4. When installing the light source, avoid close-side lighting as it may exaggerate product flaws and cause unnecessary customer concerns. 5. Mild refers to normal visual acuity within 0.5 meters horizontally from the board surface, inconspicuous refers to visibility within 1 meter from the board surface, and conspicuous refers to visibility beyond 1 meter.						

A class fire protection product standard

Test Item			Quality requirement	Test method	Remarks
Appearance quality (bothsides)			Non constat	Visual inspection of 0.8-1mm particles	Corporate Standards
	Bubble/bulge		Not allow		
	Scratch		Not allow		
	Impurities, stains		Not allow		
	Cockle		Not allow		
	Edge damage/breaking		≤5mm in length and width, with no more than 1 per board		
	Stratification or fracture		Not allow		
	Non-technical irregularities		Not allow		
	The decorative surface has fallen off.		Not allow		
Shape deviation	Thickness nonuniformity		≤ 6%	GB/T 7019-2014 - 4.1.2	Guo Biao
	Edge straightness		≤2 mm/ m		
	Diagonal difference		≤5 mm		
Dimensional discrepancy	Length		± 3 mm	GB/T 7019-2014 - 4.2.2	
	Width		± 3 mm		
	Thickness		± 0.4 mm		
Physical property	Density		≥1.35g/cm³	GB/T 7019-2014	
	Thermal conductivity		≤ 0.35[W/(m* K)	GB/T 10294-2008	
	Water absorption		≤45%	GB/T 7019-2014	
	Wet expansion rate		≤0.25%	GB/T 7019-2014	
	Water impermeability		24h After inspection, the bottom surface of the panel may show signs of moisture, but no water droplets should be present.	GB/T 7019-2014	
	Surface stripping force		≥25N	LY/T 1279-2008	
	Freeze resistance test	Antifreeze property	No rupture or delamination shall occur after 25 freeze-thaw cycles.	GB/T 7019-2014	
		Strength to flexural ratio	≥70	GB/T 7019-2014	
	Rupture strength		R1	GB/T 7019-2014	
	Resistance to impact		C1	GB/T 7019-2014	
Limit of harmful substance	Asbestos content		Must not contain	GB/T 23263-2009	Guo Biao
	Radioisotope limit	Internal radiation index	Ira≤1.0	GB 6566-2010	
		External radiation index	Irs≤1.3		
Formaldehyde emission		≤0.124mg/m³	GB/T 39600-2021	Guo Biao	
fire protecting performance	fire-protection rating		A2/B1 (Supply and Demand Negotiation)		GB 8624-2012
Note 1: Mild refers to normal visual acuity within 0.5 m from the board surface, inconspicuous refers to visibility at 1m from the board surface, and conspicuous refers to visibility beyond 1 m.					



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