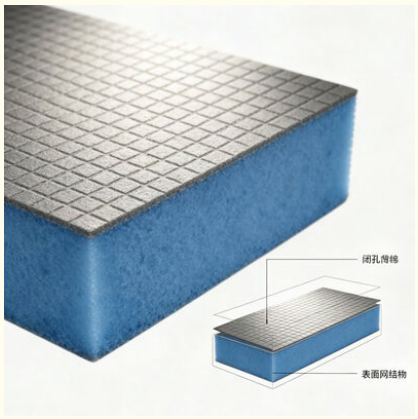
Fire Resistant Rot Proof Wet Room XPS Tile Backer Board and XPS Insulation Board for Bathroom Shower Underfloor Heating

Our Product Introduction

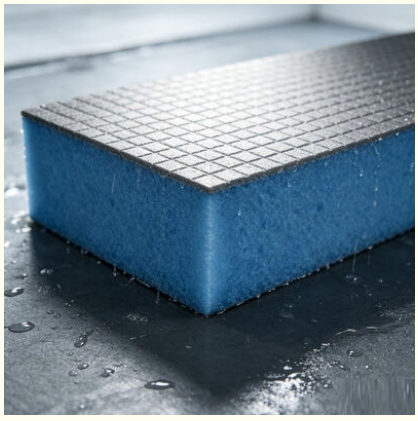
Basic Information

- Minimum Order Quantity: 50
- Price: 99.99

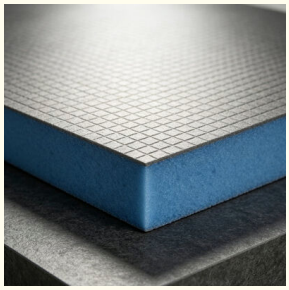
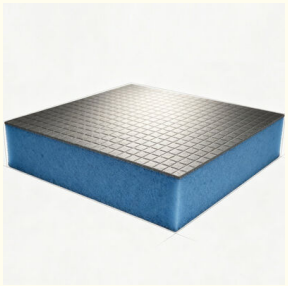
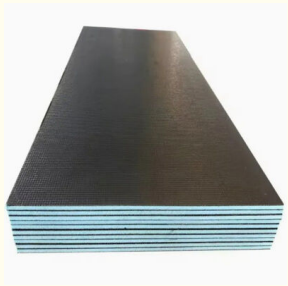


Product Specification

- Customization: Available
- Adiabatic Property: Level 034
- After-sales Service: Available
- Application Scenarios: Balcony Insulation, External Wall Insulation, Interior Wall Insulation, Underfloor Heating And Insulation, Bathroom Shower Backer Board
- Combustion Performance: Lv.B1
- Material: XPS Foam Core + Fiberglass Cement Coating
- Width: 600-1220
- Length: Within 6400mm
- Panel Thickness: 10-150mm
- Application: Bathroom/Shower /Wet Room/ Underfloor Heating
- Surface: Smooth / Grooved / Roughing / Embossing
- Feature: Waterproof/Mildew Proof/Fireproof



More Images

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Product Description

Fire Resistan Rot Proof Wet RoomXPS Tile Backer Board

Products Navigation

XPS TILE BACKER BOARD

XPS (Extruded Polystyrene) Tile Backer Board is a high-performance construction materials, crafted from extruded polystyrene foam with a fiber-reinforced cement coating.
Its lightweight yet rigid, easy to cut and shape properties, mold-resistant makes it ideal for wet environments, preventing structural damage from water penetration.
It also serves as an underlayment for radiant floor heating systems and provides thermal insulation for walls, roofs or floors.

Compared to traditional cement boards, it reduces structural load, simplifies installation, and ensures dimensional stability in humid conditions. Whatever for both residential and commercial projects, it serves as a reliable alternative to traditional cement boards or plywood, ensuring long-lasting even in high-humidity areas.

Product Description

Our high quality XPS foam board can be produced according to the following parameters or customers' special requirements.

Product type	polystyrene foam sheets
Thickness	10mm-150mm
Width	600mm - 1220mm
Length	According to customer's request
Color	Blue/Pink/Yellow/White/Customized
Density	28~50 Kg/M3
Comperssive strength	200~800 Kpa
Application	Floor Heating / Floor Insulation / Roof Insulation / Wall /
Function	Heat insulation / waterproof / fireproof / sound proof
Surface	Withskin / Without skin / Grooved / Smooth Planing / Roughing

Metalplus specializes in XPS Board &Aluminum profiles manufacturing.
Has a production base of more than 100,000 square meters, capacity more than 720 000 M3 XPS boards annually.

Core Product Advantages

Excellent Waterproof & Moisture Resistance: Adopts fully closed-cell XPS foam core structure with nearly zero water absorption. The double cement-coated fiberglass surface completely resists water penetration and moisture erosion, effectively preventing wall dampness, mildew, peeling, and tile falling off in bathroom and shower areas.
Superior Thermal Insulation Performance: XPS core features outstanding heat insulation and low thermal conductivity. It effectively reduces indoor and outdoor heat exchange, keeps indoor temperature stable, saves heating and cooling energy consumption, and is perfectly compatible with underfloor heating systems to improve heating efficiency.
Lightweight & High Strength: Compared with traditional cement backer boards, our XPS tile backer board is lighter in weight, easy to transport and handle, while maintaining high compression resistance and structural stability. It will not hollow, deform or crack after long-term use.
Easy & Fast Construction: The board can be easily cut into any size and shape with a common utility knife, supporting custom processing for shower niches, shower benches, and pipe boxing. It can be directly bonded or mechanically fixed on walls, floors and stud frames, realizing one-step wall forming.
Direct Tiling Surface: The rough cement-coated surface provides strong adhesion for tile adhesive. Ceramic tiles, porcelain tiles, natural stone and mosaic can be tiled directly on the board surface without additional plastering or leveling treatment.
Durable & Eco-friendly: Made of high-quality environmentally friendly materials, non-toxic and odorless. It features strong aging resistance, corrosion resistance and long service life, adapting to various harsh humid indoor environments.

Installation Guidelines

XPS Tile Backer Board supports two standard installation methods (bonding fixing and mechanical fixing), suitable for different base wall conditions. Strict joint sealing treatment is required to ensure overall waterproof performance.

Base Requirement

The installation base (concrete wall, brick wall, wooden or steel stud frame, cement floor) must be clean, dry, flat, firm and free of dust and loose layers.

Two Installation Methods

Method 1: Adhesive Bonding (Most Popular)
Apply uniform flexible C2 grade cement-based tile adhesive on the base or board surface with a notched trowel, then press and paste the backer board firmly on the wall or floor. This method is widely used for new decoration and old house renovation projects.
Method 2: Mechanical Fixing
For hollow stud frame walls, use special waterproof screws with gaskets to fix the board. Screw heads need to be sunk slightly below the board surface without damaging the board core structure.

Key Waterproof Sealing Steps
The board itself is 100% waterproof, but gaps are the main leakage risks. All board joints, internal and external corners, screw holes, and pipe cut-outs must be fully sealed with professional waterproof joint tape and waterproof sealant. After the sealing layer is completely cured, tile construction can be carried out.
Tiling Instruction
Use flexible tile adhesive for thin-layer tiling. Do not use ordinary cement mortar to avoid insufficient adhesion and tile falling off.

Wide Applications

1, Residential Applications

Shower walls, shower floors and full wet rooms
Bathroom wall and floor tiling substrate
Kitchen splashback and floor wet areas
Balcony and terrace waterproof tiling projects
Underfloor heating insulation and tiling base
Custom shower niche, shower bench and pipe boxing fabrication
Laundry room moisture-proof wall renovation

2,Commercial Applications

Hotel, apartment and villa bathroom renovation
SPA club, sauna room and leisure wet areas
Shopping mall, office and public restrooms
Swimming pool surrounding walls and floors
Basement moisture-proof and tiling engineering
School, hospital and public building wet area projects

About our Aluminum Extrusion Profile

Aluminum Profile	Aluminum Fan Blade Profiles Aluminum Profile System Aluminum Extrusion Enclosure LED Aluminum Extrusion Profiles Aluminum Frame Customized Aluminum Profie Aluminum Heat Sink Electric Motor Housing Aluminum profile Construction Aluminum Profile Aluminum Extrustion Tube
Die Casting	Die Casting Led Housing Stainless Steel Casting Aluminum Casting
ACP	Aluminum Composite Panel
Aluminum honeycomb panel	Aluminum honeycomb panel

Technical Support

1. Based on the customer's requirements, we help design the appearance of the extruded profiles, provide CAD drawings and

3D models for customer confirmation, customize the molds, and extrude the aluminum profiles that meet the customer's requirements.

2. For customers with design capabilities, our professional R&D team will analyze and optimize the design based on the customer's drawings and our experience in extrusion processing, using the most reasonable design to reduce production costs and improve product performance.

3. Our company adopts a "one-stop" service and production model, including product design, customized molds, aluminum bar melting and casting, extrusion profiling, precision machining, and surface treatment. We can effectively control the alloy composition of raw materials and maintain product accuracy throughout the production process, providing you with high-quality products.

Factory

Equipment

Extrusion

Equipped with 44 aluminum extrusion lines, MetalPlus is capable of producing various standards of commercial aluminum profiles and industrial aluminum profiles with maximum outer diameter of 350mm.

MetalPlus has 44 aluminum profile extrusion lines equipped with PLC control systems and precise molds. The largest extruder used in the MetalPlus factory is a 6800 ton unit. The machine is used for the production of industrial profiles in various shapes with a maximum diameter of 600mm. This allows us to satisfy the different requirements of our various customers. Some of the aluminum products produced by MetalPlus include radiators, industrial fan blades, motor enclosures, solar cell frames, doors, and windows.

MetalPlus can produce custom molds according to customer requirements. We have the abilities and experience to produce aluminum profiles with complex structures. We have our own R&D team so we can provide reasonable suggestions for our customers in order to create superior products at affordable prices.

Anodizing

Anodizing is a process in which a layer of aluminum oxide is formed on the surface of aluminum alloy products when they are placed in an electrolyte solution and then an electrical current is applied. Oxidized aluminum profiles feature improved corrosion resistance so that the surface can withstand various weather conditions. Meanwhile, the aluminum oxide also increases the product's hardness and wear resistance. MetalPlushas 6 anodizing production lines. The profiles processed in our anodizing lines feature uniform oxidation film thickness and color giving them a beautiful appearance. The oxidized profiles come in various color options including silver, black, gold, champagne, and imitation steel. Other colors can be customized upon request.

The anodized products will all be inspected by highly trained professional inspectors. Defective products which cannot be re-processed will be directly scrapped. Products with uneven color will be de-coated and re-anodized until they can meet the requirements. This ensures that there is no color difference among each batch of products.

Painting

Our factory is equipped with 4 powder spraying lines and all of them are using high-quality spray nozzles from Gema Switzerland. In the meantime, MetalPlus only uses safe and environmental friendly paint with strong adhesive force as well as durable color retention.

CNC Machining
MetalPlus is equipped with highly advanced machining equipment sets. All fine machining processes are accomplished by technicians with rich industry experience. Strict industrial standards are adopted during production to ensure fine machining precision and product quality.

1. MetalPlus has 12 PRATIC machining centers which can be used for the milling, drilling or tapping of profiles from different angles. They are especially suitable for the production of long profiles up to 6 meters. The equipment sets can realize machining of complex profiles with the simplest methods

2. MetalPlus has fully automatic cutting machines from Wegoma which can accomplish precise cutting with automatic and continuous material feeding, which means that the machines feature low labor cost and high production efficiency. Therefore, the cutting price of MetalPlus is significantlylower than that of the other enterprises in the industry.

3. We have 30 punching machines of which the punching pressure ranges from 50 to 100 tons. They can be used for the punching of relatively thick profiles of which the thickness can be over 5MM. There are also 10 stretch bending machines/bending machines which can realize bending of profiles to arc or different angles. The machining angle is highly precise. The factory is also equipped with 10 milling machines, realizing machining of different planes, bevels or grooves so that we can satisfy different machining requirements of our customers.

Packing & Shipping

Finished products are packaged manually and ready for delivery. MetalPlusadopts strict warehouse management procedures; the finished product warehouse is divided into sections to store specific products, any in & out transactions have to be recorded and each product has to be examined before delivering.

Our Advantages

Light--Lighter than aluminum solid panel
Slim--Much cheaper than aluminum honeycomb panels
Strong--More durable than aluminum corrugated panels
Ultra Flat--Flatter than normal composite panels

Certifications

Company History

IN 2004 "THE RECOGNIZED BRAND OF THE BUILDING INDUSTRY MATERIAL MARKET"

IN 2006 "CERTIFICATE FOR PRODUCT EXEMPTION FROM QUALITY SURVEILIANCE INSPECTION " AND "ISO9001"

IN 2009 "ADVANCED COMPANY "

IN 2009 "JIANGSU FAMOUS BRAND CERTIFICAT "

IN 2009 "CERTIFICATE FOR CREDIBLE PRODUCT OF QUALITY IN JIANGSU PROVINCE"

IN 2012, ESTABLISHED THE BUSINESS RELATION SHIP WITH PANASONIC, LG.

IN 2015, BE AND INOVATIVE PRODUCER AN SUPPLYING PARTNER FOR EUROPE CLIENT.

IN 2017, DEVELOPED THE NEW PRODUCTS OF BASEBOARD HEATERS .

IN 2019, COOPERATE WITH THE WORLD'S LARGEST HEATER MANUFACTURERS , AND SUPPLY THE ALUMINUM SHELLS FOR THEM .WON A GOOD REPUTATION !

IN 2023, WE WILL CONFIDENCE TO DEVELOP OVERSEA DISTRIBUTOR , TO EXPAND MARKET FOR WIN-WIN BENEFITS .

Project

The Soccer City Stadium, in Johannesburg is one of the major project of south African, the 94 000 seat stadium is the largest capacity stadium in Africa.
We are very honored to participate in the construction of the project as the main supplier of aluminum!

The Soccer City Stadium won unanimous praise after it was built!

Lobster Trailers is a Nordic trailer giant ,we are very pound to cooperate with them.
Our professional R&D team analyze and improve upon Lobster's designs and then process them with our excellent processing equipment, exquisite technology.
We minimize production costs and improve product performance thanks our optimization proficiencies.

We are very glad that our local customer Dadn won the bid of the school project, and we supplied the Aluminum Legs of the school desks for them.
With our strong design and mature technics, we will help more customers to get the tender.

Hentec Industry Co.,Ltd

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