

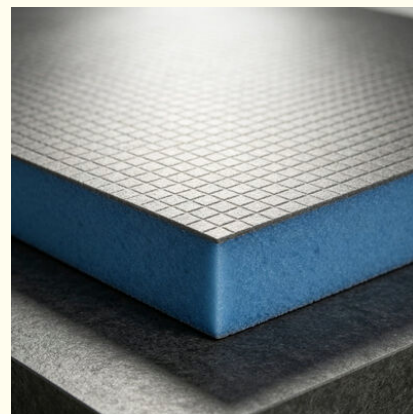
Fire Resistant XPS Tile Backer Board and XPS Insulation Board for Roof Insulation and Wall Underlay

Our Product Introduction

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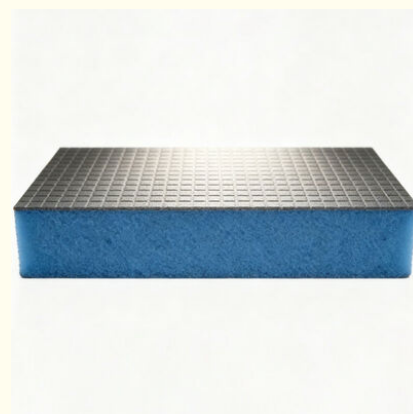
Basic Information

- Minimum Order Quantity: 50
- Price: 99.99

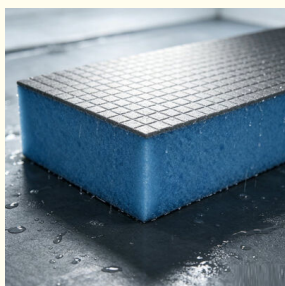
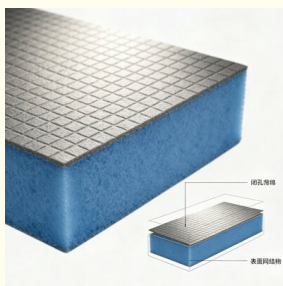
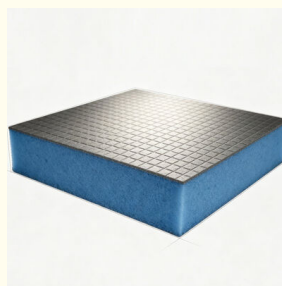


Product Specification

- 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
- Thermal Performance: Good Heat Insulation
- Compressive Strength: High Load-Bearing For Wall & Floor Use
- Compatibility: Fits Multiple Tile Adhesives & Substrates



More Images



Product Description

Fire Resistant XPS Tile Backer Board For Roof Insulation Wall Underlay

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

Metallplus 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.

External Wall Insulation

Most heat transfer and dissipation between indoor and outdoor spaces takes place through building walls. XPS extruded polystyrene boards efficiently stabilize indoor temperatures to achieve real winter warmth and summer coolness. Their unique structure greatly enhances wall durability. XPS boards can act as a substrate for cementitious coatings to create a smooth, uniform base for wall finishes.

The inverted construction method places the XPS extruded polystyrene board above the waterproof membrane. This protects the waterproof membrane from temperature fluctuations and mechanical damage, providing effective long-term protection. Inverted roof assemblies feature a simple structure, extended service life and remarkable advantages. In addition, during roof renovation, the system can be directly installed over the existing old roof.

Details of Inverted Construction Method :

After roof capping, level the substrate surface appropriately. (For small roof areas, no grouting is required between boards. For large roof areas, apply packing tape along board joints. This effectively prevents cracks along the board joints in the protective layer after the cement mortar hardens.)

Carry out roof waterproofing work. XPS extruded polystyrene boards are compatible with all construction methods and waterproofing materials. Verify that the waterproof membrane has fully cured before board installation.

Once the waterproof membrane passes inspection, start laying XPS extruded polystyrene boards. XPS boards have no expansion property, so expansion joints are generally not required. Cut XPS boards to fit around roof penetrations before installation. Normally, no adhesive bonding is needed for XPS boards. Asphalt can be used for bonding if required. Note that asphalt contains toluene. Allow the toluene to evaporate completely before placing XPS boards after asphalt application.

Pour the protective layer. Protective layers fall into two categories: accessible roofs and non-accessible roofs. Accessible roofs usually adopt cement mortar reinforced with steel bars. Non-accessible roofs mostly use dry-laid pebbles or artificial turf.

Diagram of Inverted Construction Method :

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

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 SURVEILLANCE 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 proud 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.

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