



PUSHPAK INFRA STEEL PVT LTD

**Manufacturer of
Continuous Sandwich PUF Panels**





Steel - is one of the few material, enabling it to power the circular economy of the future.

We at Pushpak have an inherent stake and clear responsibility in its transformation.

It is therefore our goal to help build a better world with smarter Roofing.
Pushpak - Building a colourful future.

Pushpak Group established in the year 1985 has one of the best manufacturing process with a continuous line for Sandwich PU/PIR panels. Over the years Pushpak has become one the India's largest manufacturer of high performance insulated sandwich panels suitable for complete building envelope. Pushpak Insulated Panel technology has led the industry in thermal-efficiency, fire safety and lifetime durability.

Today, Pushpak offers immense aesthetic flexibility with a vast range of products spanning from Insulated Panels, Architectural Roofing Solution and clean room solutions. Our insulated panel has always pushed the boundaries of faster construction, excellent quality, and superior aesthetics.

We have encouraged innovation by introducing the latest technology, products and applications, having highest standards of production with the constant aim of meeting customer needs. We are now a leader in the roofing industry.

MISSION

To lead the global market with quality products and services to create enduring value for customers."

VISION

Be a steel producer with outperforming bench mark in safety, human relations, costs and value creation and be responsible to the society



VALUES

A family-owned business often operates with values that reflect the family's principles, long-term vision, and commitment to success. These values typically contribute to the company's culture, decision-making process, and interactions.

- INTEGRITY • QUALITY • CUSTOMER FOCUS • LONG-TERM VISION
- INNOVATION • RESPECT • TRANSPARENCY • TEAMWORK
- ADAPTABILITY • SOCIAL RESPONSIBILITY • EMPOWERMENT

PUSHPAK SANDWICH PUF PANELS

Sandwich panels are a type of construction material that consists of an insulating foam core sandwiched between two outer layers, typically made of metal or composite materials.

These panels offer excellent thermal insulation, high strength, and durability, making them ideal for various applications such as roofing, wall cladding, cold storage, and industrial buildings.

Sandwich PUF panels are lightweight, easy to install, and provide energy-efficient solutions that contribute to reduced heating and cooling costs. They are also fire-resistant, environmentally friendly, and customizable in terms of size, thickness, and design. Overall, sandwich PUF panels are a versatile and efficient choice for modern construction, providing insulation, structural integrity, and aesthetic appeal to buildings.



PUR Panels and PIR Panels

There are two types of polyurethane panels in the market, PUR (polyurethane foam) & PIR (polyisocyanurate foam), both offering excellent thermal insulation, the latter being the one with the best fire performance.

PRODUCT	PUF PANEL
Length of Panel	Up to 12.5 MTR any size
Width- Wall	Supply width 1020mm Cover width 1000mm
Width- Roof	Supply width 1080mm Cover width 1000mm
PPGI / PPGL Thickness (mm)	0.4mm / 0.45mm / 0.50mm / 0.6mm / 0.7mm / 0.8mm
Puf Core Thickness (mm) Wall	30, 40, 50, 60, 80, 100, 120
Puf Core Thickness (mm) Roof	30, 40, 50, 60, 80, 100, 120, 150
U Value (w/m ² K)	0.53, 0.43, 0.33, 0.28, 0.22, 0.18, 0.15
R Value (h-ft ² -*f/btu)	11, 13, 16, 20, 26, 30, 3,8
Facia Options	PPGI, PPGL, ALU, Cement sheet, SS, Laminate sheet

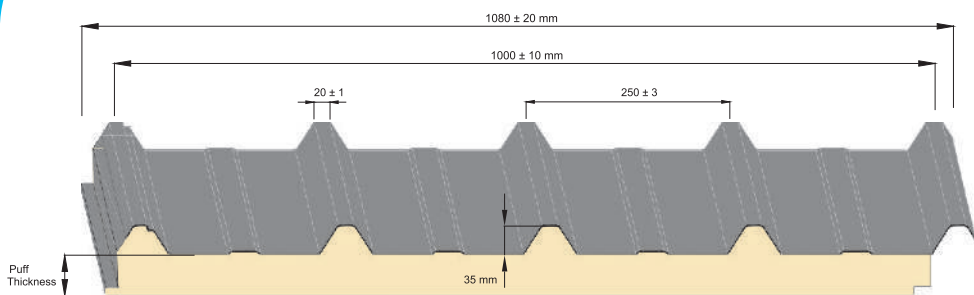
PRODUCT	PUF PANEL
Density (kg/m ³)	40(±2)
Thermal Conductivity at 10c° mean temperature (w/m*k)	0.023
Compressive strength at 10% deformation (kg/cm ²)	2.1
Bending strength (kg/cm ²)	4
Tensile strength (kg/cm ²)	250 to 550 Mpa
Adhesive strength (kg/cm ²)- foam to steel	2.9
Water absorption (volume%)	0.2% at 100% RH
Closed Cell Content (%)	92-95%
Vapour permeability at 90% RH & 38 0c (Gms / Hr.sqm)	0.12
Fire Class	Fire Retardant

PUSHPAK PUF-ROOF PANELS

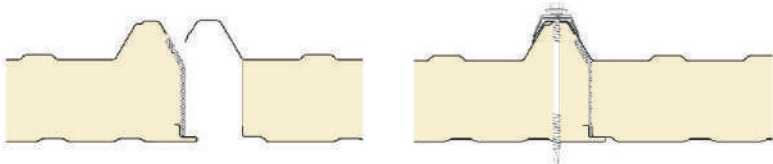
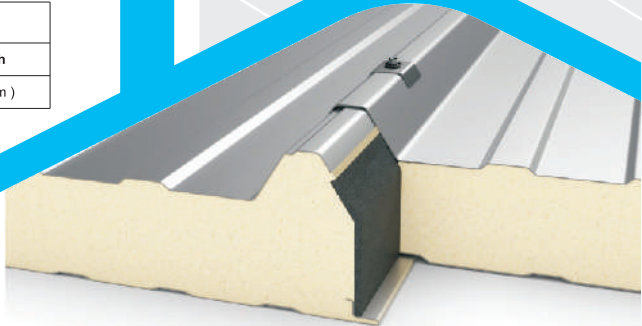
SANDWICH PANELS FOR ROOFING

Sandwich panels for roofing have gained significant popularity in the construction industry, offering a comprehensive solution that combines strength, insulation, and efficiency. These panels, consisting of two outer layers with an insulating core material in between, provide numerous advantages that make them an excellent choice for roofing applications.

Sandwich panels for roofing provide a winning combination of thermal insulation, strength, durability, and cost-effectiveness. Their excellent performance in insulation, lightweight design, quick installation, and versatile aesthetics make them an ideal choice for roofing applications. Experience the benefits of sandwich panels for your roofing needs and enjoy a durable, energy-efficient, and visually appealing roof that enhances the overall functionality and aesthetics of your building.

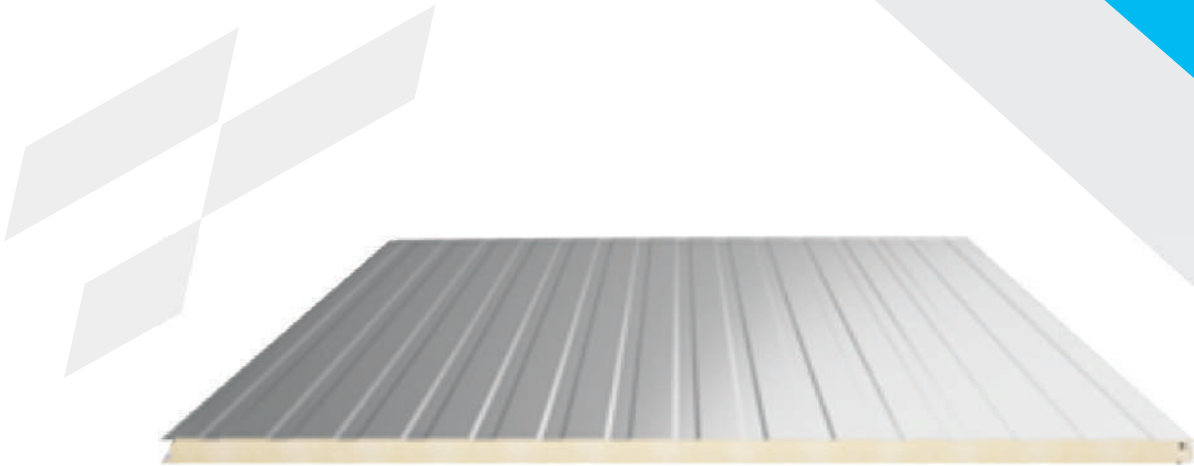


Technical Specification				
Supply Width	Covered Width	Pitch	Crest Height	Crest Width
1080 mm ($\pm 20 \text{ mm}$)	1000 mm ($\pm 10 \text{ mm}$)	250 mm ($\pm 3 \text{ mm}$)	35 mm ($\pm 2 \text{ mm}$)	20 mm ($\pm 1 \text{ mm}$)



PUSHPAK PUF WALL PANELS

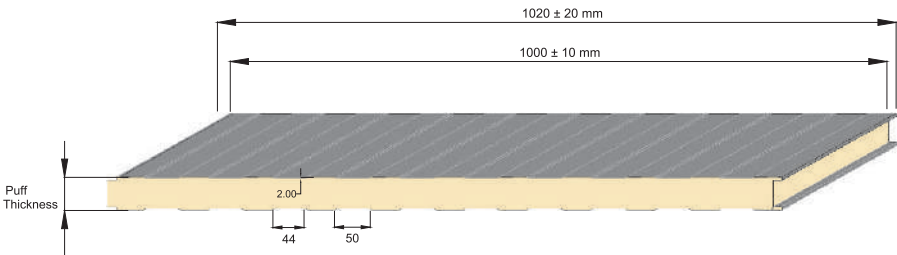
Sandwich Panels for facades / Wall Cladding



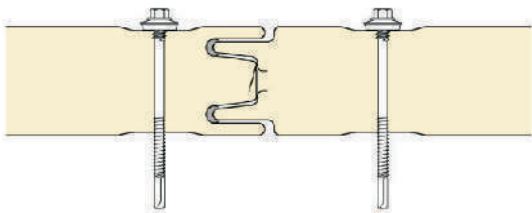
Wall cladding sandwich panels have revolutionized the construction industry, providing a versatile and efficient solution for building facades.

These panels, consisting of two outer layers with an insulating core material in between, offer a range of benefits that enhance the aesthetics, performance, and energy efficiency of buildings with their easy installation, weather resistance, and acoustic performance, these panels enhance the overall building envelope and contribute to a comfortable and visually appealing environment.

Embrace the benefits of wall cladding sandwich panels and elevate the aesthetics and performance of your building facade.



Technical Specification	
Supply Width	Covered Width
1020 mm ($\pm 20 \text{ mm}$)	1000 mm ($\pm 10 \text{ mm}$)



PUSHPAK COLD ROOM PANELS

Refrigerated Panels / Cold Room Panels

Our mission is to be the premier manufacturer of cold room panels, dedicated to providing cutting-edge solutions for temperature-controlled storage and preservation.

Through our relentless commitment to quality, innovation, and customer satisfaction, we strive to deliver superior cold room panels that optimize energy efficiency, maintain precise temperature control, and ensure the integrity and freshness of stored goods.

By leveraging our expertise in panel manufacturing and cold chain technologies, we aim to empower industries such as food, pharmaceuticals, and logistics to enhance product safety, minimize wastage, and improve operational efficiency. Together with our customers, we aim to build a future where cold storage solutions drive sustainable growth and make a positive impact on global supply chains



PUF INSULATED DOORS

PUF (Polyurethane Foam) doors are specialized doors that feature a core made of PUF insulation material. These doors are commonly used in various industrial and commercial applications, including cold storage facilities, warehouses, cleanrooms, and other environments that require temperature control, sound insulation, and energy efficiency.

PUF doors offer a reliable and efficient solution for environments that require insulation, soundproofing, and energy efficiency. Their thermal insulation properties, durability, customization options, and compliance with industry standards make them suitable for a wide range of applications where temperature control, hygiene, and security are crucial considerations.



TECHNICAL SPECIFICATIONS

- PUR and PIR insulation alternatives
- Door thickness 60, 70, 80, 90, 100, 120 mm thickness options
- Density 40 (+/-)2 Kg/m³
- Temperature range :-40 °C to +55°C
- Pre painted galvanized steel, Stainless Steel having inner & outer sheet
- Tensile Strength :250 mpa to 550 mpa
- Adhesive Strength : 2.9 Kg/cm²
- Water Absorption : 0.2% Max at 98% RH
- Heater attachment for negative temp. Room

PUSHPAK PROSHIELD 12MM PUF PANEL

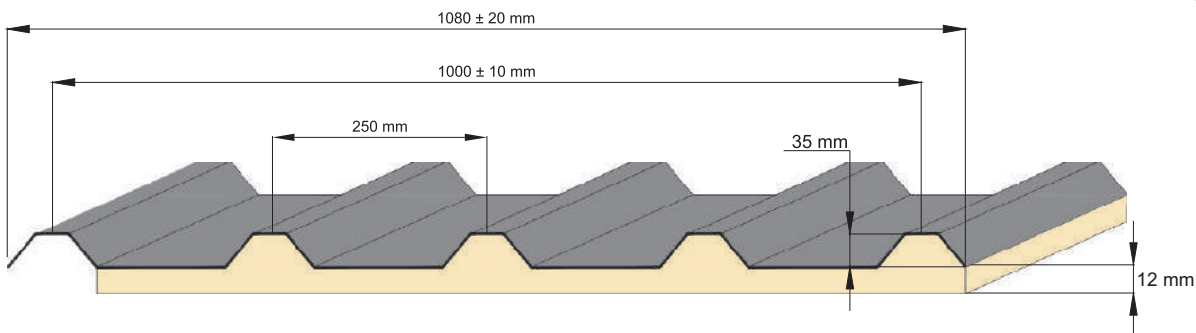
Pushpak ProShield 12mm Sandwich Puf Panel are relatively thin and are often used in applications where moderate insulation is required.

Pushpak ProShield 12 mm Sandwich PUF panels consist of three main layers

Outer Skin : Typically made of materials like steel, aluminum, or other metals, the outer skin provides structural support and protection from environmental factors.

Insulation Core : The core of the panel is filled with polyurethane foam or PUF, which is an excellent insulating material known for its high thermal resistance and low thermal conductivity. PUF helps to maintain a comfortable indoor temperature by minimizing heat transfer.

Inner Skin : Inner skin consists of Aluminium foil or LDPE tape



Technical Specification				
Supply Width	Covered Width	Pitch	Crest Height	Crest Width
1080 mm (± 20 mm)	1000 mm (± 10 mm)	250 mm (± 5 mm)	35 mm (± 2 mm)	20 mm (± 2 mm)

IDEAL FOR



OFFICE PARTITION /
MODULAR OFFICES



SCHOOL /
COLLEGE BUILDINGS



STADIUM /
AUDITORIUM



HOSPITALS



RESTAURANTS



WAREHOUSES
COLD STORAGE



RESORTS /
BEACH SHACKS



HALLS / CABINS



BUILDING TERRACES

MAJOR BENEFITS



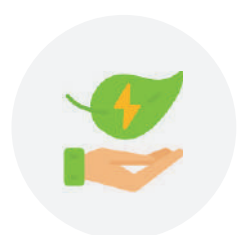
**GREAT
ENERGY SAVER**



**EXCELLENT AND DURABLE
THERMAL & GOOD SOUND
INSULATION**



**SPACE &
COST SAVING**



**ENVIRONMENT
FRIENDLY**



**LONG LIFE & VERY LOW
MAINTENANCE COST**



**QUICK & EASIER
INSTALLATION IN
ANY WEATHER CANDITIONS**



**WIDE RANGE OF
COLOURS**



**HIGH LOAD BEARING
CAPACITY**

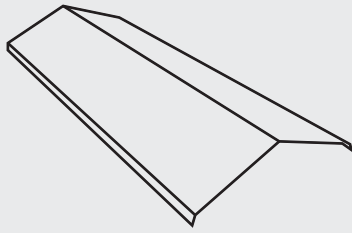


**HIGHLY FIRE
RESISTANT**



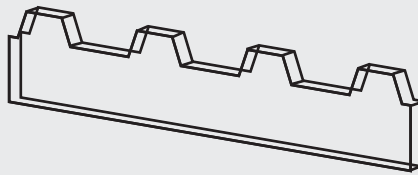
ACCESSORIES

FOR ROOF PANEL



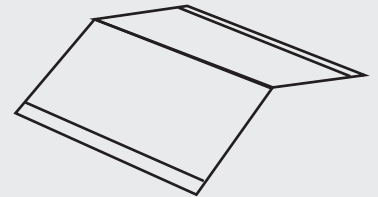
EXTERNAL PROFILE RIDGE
For Roof TOP

FOR ROOF PANEL



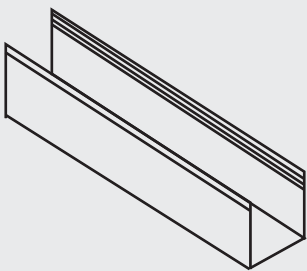
**ROOF TRAPEZOIDAL
END CAP**

FOR ROOF PANEL



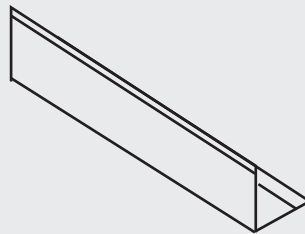
INTERNAL RIDGE
For Roof Bottom

FOR WALL PANEL



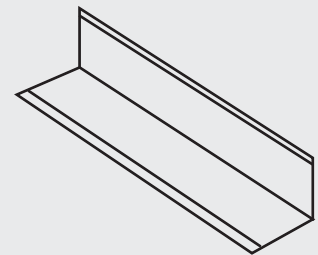
C-CHANNEL -
For Wall Bottom and for door and
window cutout.
Customize as per wall size.

ACCESSORIES



INTERNAL L- Angle
For Internal Wall to wall corner,
internal roof to wall corner and
external roof to wall corner.

ACCESSORIES



EXTERNAL L- Angle
For External wall to wall corner.
Customize as per wall size .

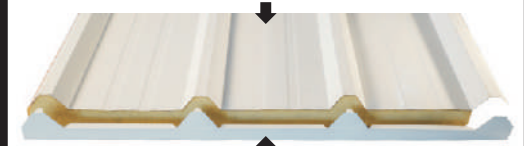
PUSHPAK PUF PANEL ENCLOSING ACCESSORIES

General flashing components made to supplement the complete roof & wall Systems.

Roof End Cap



Roof PUF Panel



Roof End Cap



Gable Flashing



U Flashing



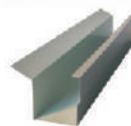
Barge Board



Ridge Flashing



Corner Flashing



Gutter Flashing



Inner Corner Flashing



Drip Flashing

OUR CLIENTS

We are trusted by the best!



OUR PROJECTS







CORPORATE OFFICE

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