



PUF | PIR | ROCKWOOL PANEL SOLUTIONS

Engineered for Performance. Built for Scale.



COOL MORE. SAVE MORE



Fire Resistance. Future Ready.



UMA SIGNATURE PANEL

Established in 2013 as **UMA PUF Panel**, the company has evolved into **UMA Signature PUF Panel LLP**, a professionally managed organization registered under ROC, reflecting our growth, credibility, and long-term vision.

UMA Signature PUF Panel LLP is a trusted manufacturer of advanced PUF, PIR, and Rockwool insulated panel solutions. **Backed by state-of-the-art continuous production lines with European standards, German Technology, and Italy-made machinery**, our products deliver superior strength, durability, fire resistance, and long-term performance.

Driven by innovation and precision engineering, we ensure consistent quality, high structural integrity, excellent thermal insulation, and reliable performance across all applications.

Serving industries such as Cold Storage, Temperature control warehouse, pharmaceuticals, chemicals, food processing, cosmetics, infrastructure, and R&D facilities, we are known nationwide for reliable quality, innovative solutions, and a strong commitment to customer satisfaction.



Infrastructure

Built for scale. Designed for precision.

Our manufacturing ecosystem is powered by **European-standards, German technology, Italy-made machinery, delivering unmatched consistency, speed,** and performance across every panel produced.

With strategically located facilities, **UMA SIGNATURE** ensures seamless production, faster delivery, and the capability to execute large-scale projects with confidence.

Manufacturing Presence (Plant Area)

Unit 1: Vadodara, Gujarat — **200,000 sq. ft.**

Unit 2: Raipur, Chhattisgarh — **100,000 sq. ft.**

Installed Capacity

PUF / PIR Panels — **5.5 Million Sq. Meters / Year**

Rockwool Panels — **1.0 Million Sq. Meters / Year**

Total Capacity — **6.5 Million Sq. Meters Annually**

Engineered for reliability. Scaled for the future.

Why Choose Us?

Built to Perform. Scaled to Deliver. Trusted Nationwide.

At UMA SIGNATURE, we deliver more than insulated panels — we deliver performance, reliability, and consistency at scale. Our manufacturing is powered by European-standards, German technology, Italy-made machinery, ensuring precision and uniform quality across every project.

With strong production capacity, advanced technology, and a customer-first approach, we execute projects efficiently — from small requirements to large industrial developments. Our focus on quality, speed, and long-term value makes us a trusted partner across industries.

Key Reasons to Partner With Us

Powering India's Next-Generation Insulated Infrastructure

- Advanced European Standards — German technology, Italy-made production lines
- Consistent Quality Standards — Strict control at every stage of manufacturing
- Fast & Reliable Delivery — Strong planning and execution capability
- Complete Product Range — PUF, PIR & Rockwool solutions under one roof
- Cost-Efficient Solutions — Optimized for performance and long-term savings
- Experienced Technical Team — Skilled professionals with industry expertise
- Innovation-Driven — Continuous development of new profiles and systems
- Strategic Locations — Better reach with Vadodara & Raipur facilities
- Long-term Partnerships — Built on trust, reliability, and repeat business



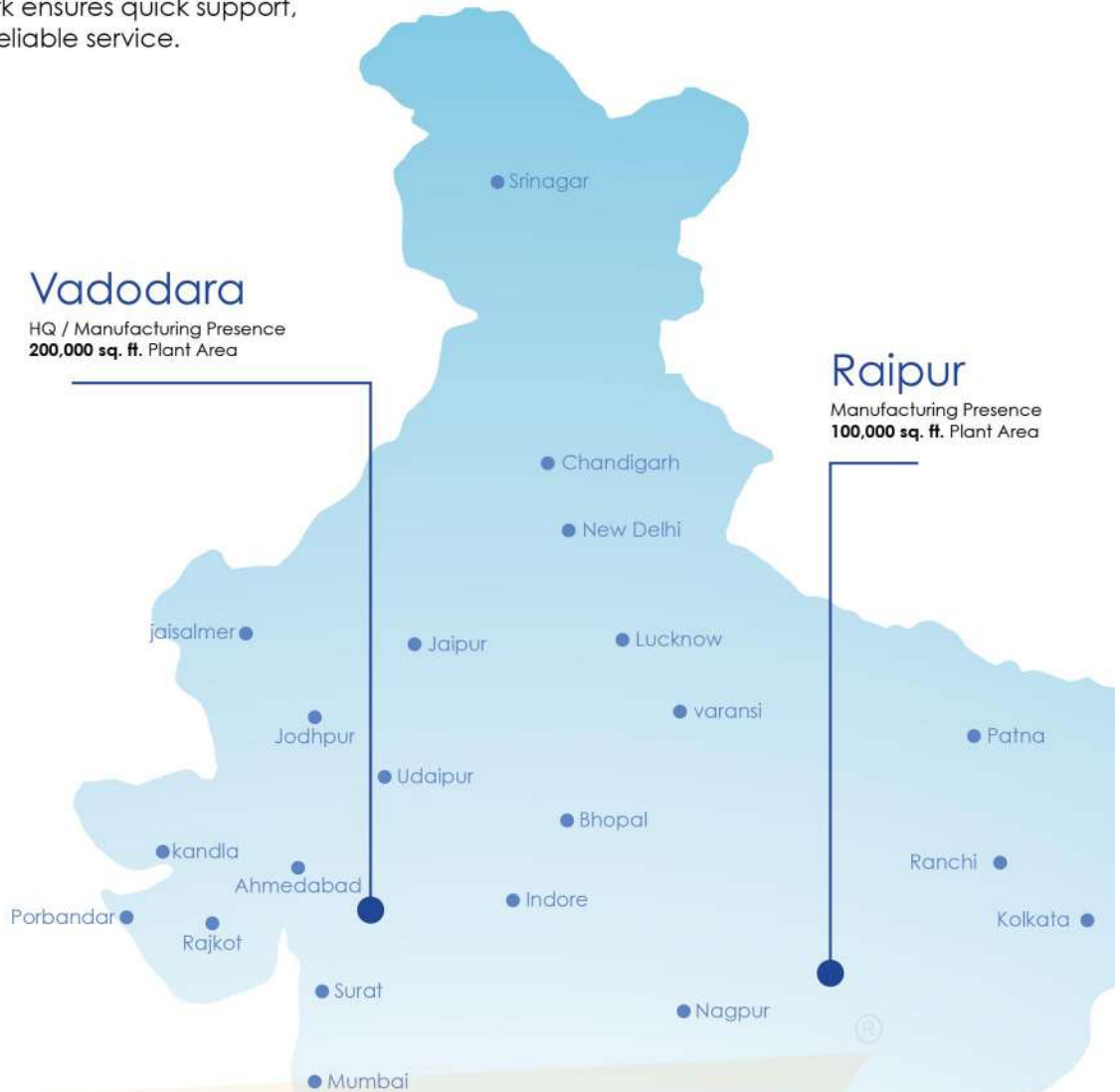
Growing Presence, Trusted Everywhere With a strong footprint across regions, we are always closer to where you need us. Our expanding network ensures quick support, smooth delivery, and reliable service.

Vadodara

HQ / Manufacturing Presence
200,000 sq. ft. Plant Area

Raipur

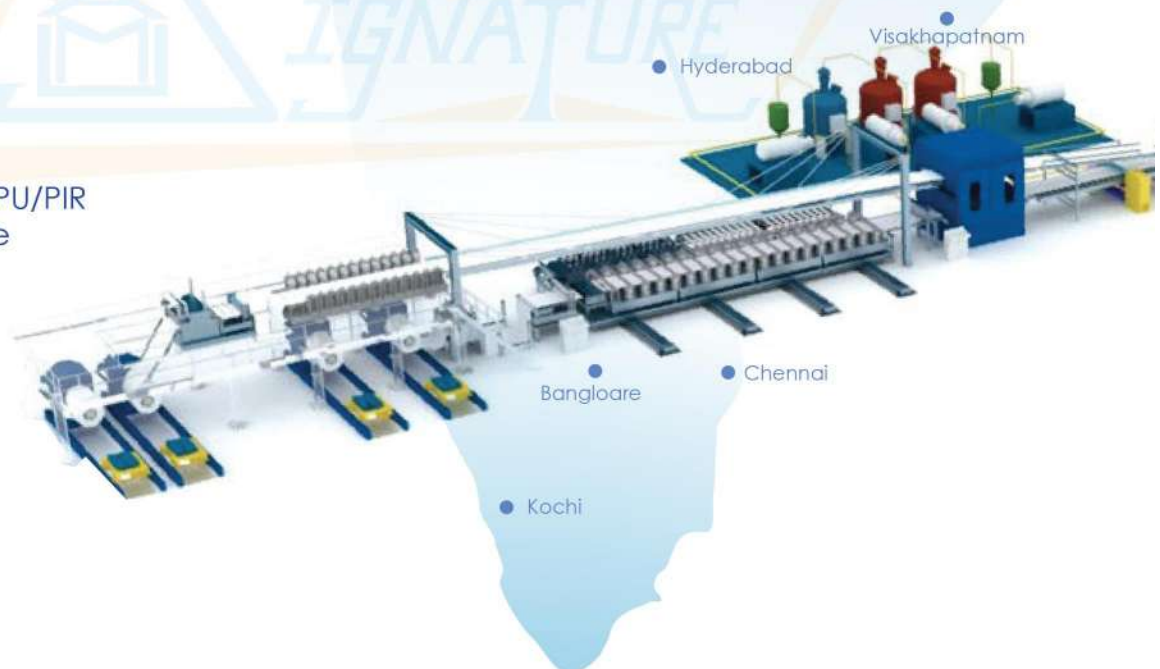
Manufacturing Presence
100,000 sq. ft. Plant Area

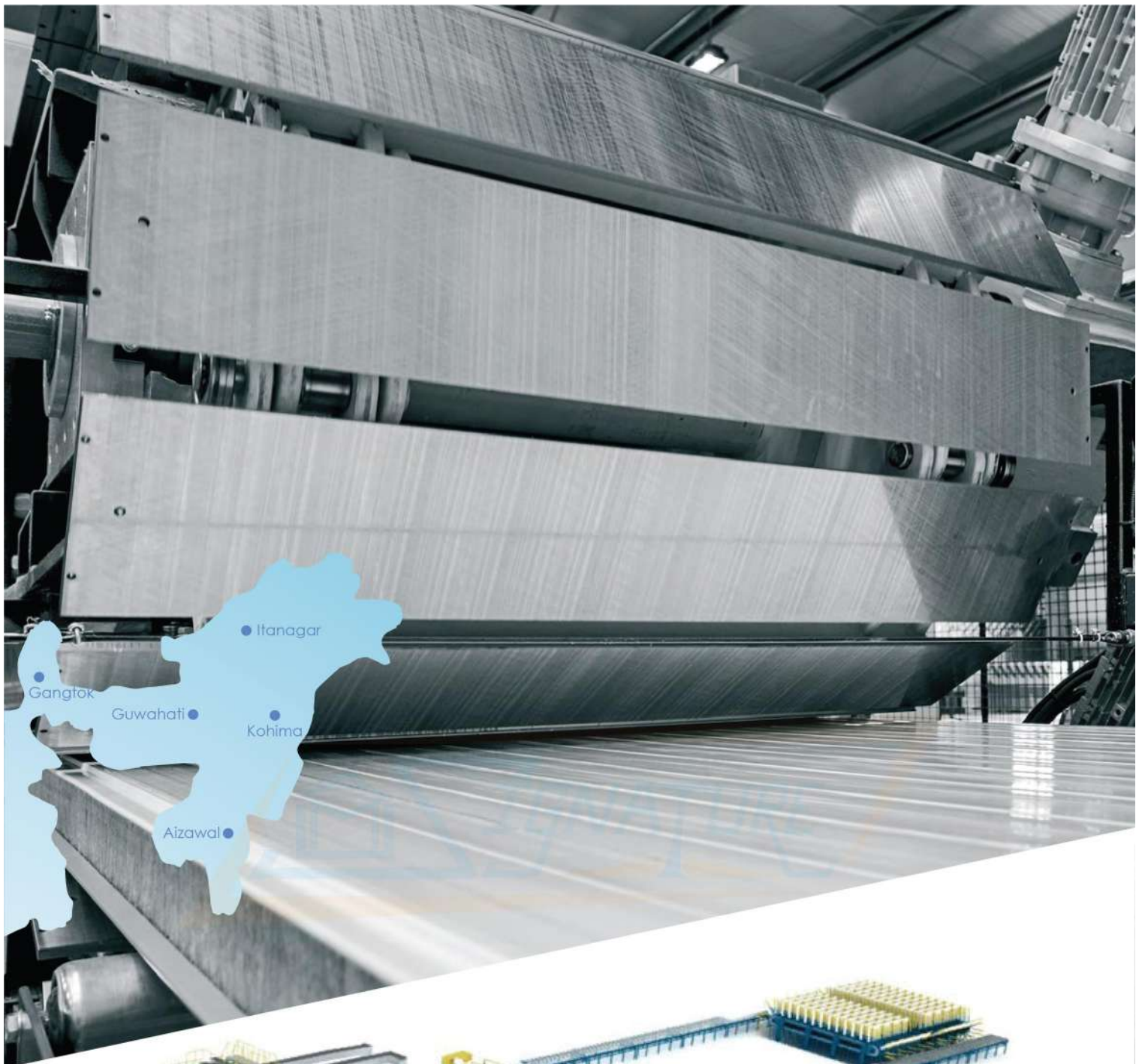


- HQ/ Manufacturing Unit
- Our Presences



Two Continuous PU/PIR Panel Line

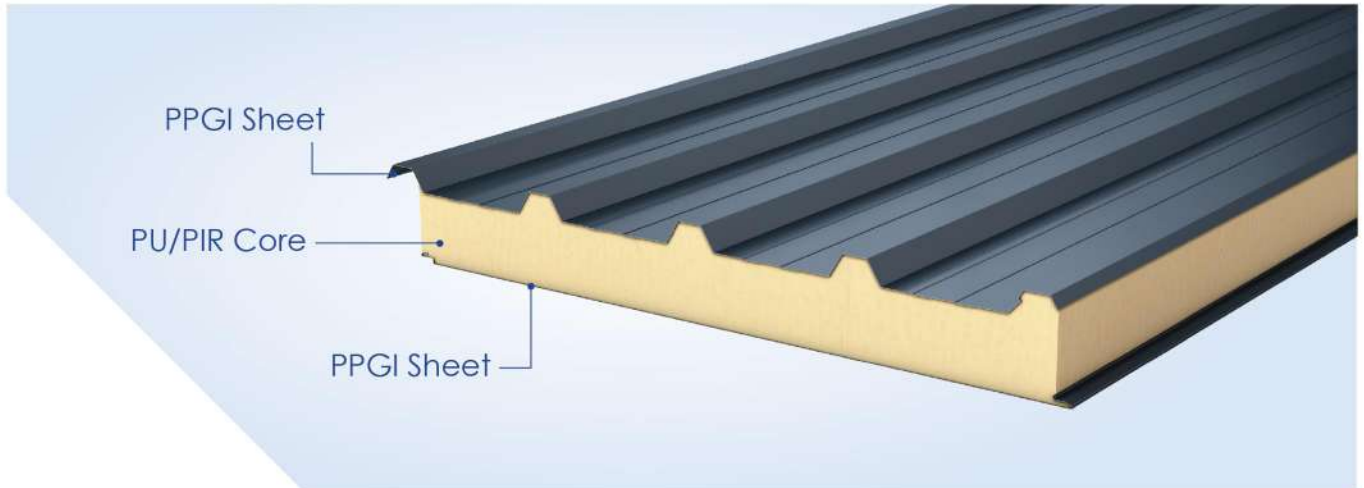




One Continuous Rockwool Panel Line

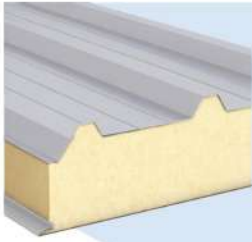
Insulated sandwich panel

Insulated sandwich panels are advanced, factory-engineered building components designed as single-piece, prefabricated modular units. They consist of a high-performance PU/PIR (CFC & HCFC Free) insulation core or high-density Rockwool, sandwiched between two metal facings. The insulation core delivers superior thermal efficiency, strong adhesion, and long-term structural stability, enabling higher load-bearing capacity and wider spans. Engineered for modern construction, these panels ensure energy efficiency, faster installation, and optimized project costs, making them an ideal solution for industrial, commercial, and cold storage applications.



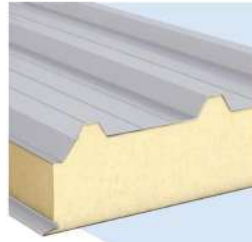
Properties	PUF (PUR)	PIR	Rockwool
Insulation	Rigid Polyurethane Foam as per IS 12436	Rigid Polyisocyanurate Foam as per IS 12436	Mineral Rockwool Fiber (Non-combustible)
Density	38-40 (± 2)kg/m ³	40-45 (± 2)kg/m ³	96-100 (± 10)kg/m ³
Thermal Conductivity	0.022-0.024 W/m-K	0.020-0.023 W/m-K	0.035-0.040 W/m-K
Compressive Strength	2.0-2.5 kg/cm ²	2.2-2.8 kg/cm ²	0.5-1.0 kg/cm ²
Tensile Strength	2.0-2.5 kg/cm ²	2.2-2.8 kg/cm ²	Normal (fiber-based)
Flexural Strength	2.5-3.5 kg/cm ²	3.0-4.0 kg/cm ²	Normal
Shear Strength	2.0-2.5 kg/cm ²	2.2-3.0 kg/cm ²	Normal
Closed Cell Content	$\geq 90-95\%$	$\geq 90-95\%$	Open fiber structure
Fire Performance	Self-extinguishing (B2-B3 CLASS)	Fire resistant (B1/B2 CLASS)	Non-combustible (Class A1)
Water Absorption	$\leq 0.2\%$	$\leq 0.2\%$	1-2%
Vapour Permeability	Normal	Normal	High
Dimensional Stability (-25°C)	$\pm 2\%$	$\pm 2\%$	Stable
Dimensional Stability (+70°C)	$\pm 2\%$	$\pm 2\%$	Stable

Basic Properties of Insulation Cores



PUF Rigid Polyurethane foam

A high-efficiency insulation core with excellent strength-to-weight ratio. As a thermosetting material, PUF forms a protective char layer under fire exposure, helping to restrict flame spread. Enhanced with fire-retardant (FR) additives, it ensures reliable thermal performance and structural stability.



PIR Polyisocyanurate Foam

An advanced insulation solution offering superior fire performance compared to PUF. Manufactured through a trimerisation process, PIR features a more stable and dense closed-cell structure, delivering enhanced thermal efficiency, improved fire resistance, and reduced smoke generation.

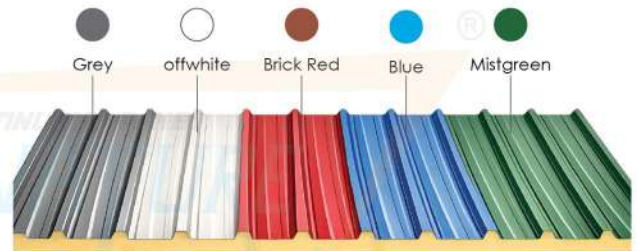


Rockwool Mineral Stone Wool

A high-density, non-combustible material made from natural basalt rock. It provides exceptional fire resistance, withstanding temperatures over 1000°C without melting. Its unique fibrous structure also offers superior acoustic insulation and excellent thermal stability for heavy-duty industrial use.

Available colours

Other RAL Code Colour available as per request



Surface Profiles

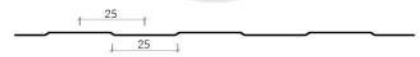
• Standard Rib



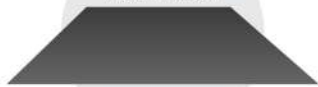
• Micro Rib



• Signature Rib



• Plain Finish



• Trapezoidal



EXCLUSIVE
PRODUCT

Signature ColdLock™

A Continuous Cam-Lock Wall Panel

Signature ColdLock™ is a high-performance insulated sandwich panel specially designed for cold storage and temperature-controlled environments. It ensures maximum air tightness, thermal efficiency, and structural strength.

- Advanced cam-lock mechanism
- 100% airtight and vapour-tight sealing



Technical Specifications



Effective Width
1100mm



Density (PU)
38–40(± 2) kg/m³



Thickness
100/120/150mm



Density (PIR)
40–42(± 2) kg/m³



Panel Length
2.5m to upto 15m



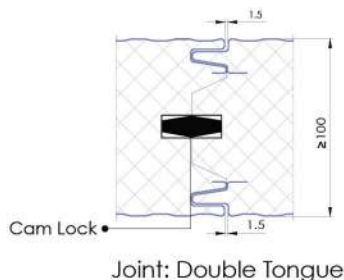
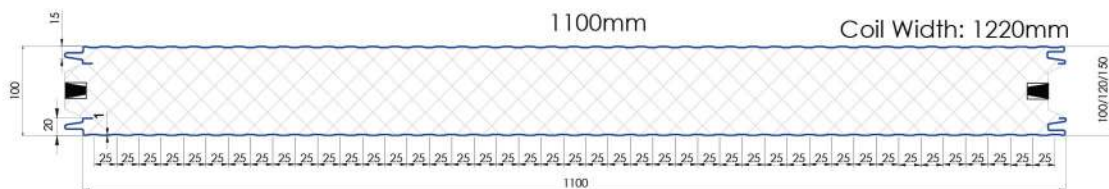
Thermal Conductivity
PU: 0.022–0.024, PIR: 0.020–0.022



Core Material
PU/PIR



Sheet Thickness
0.30, 0.35, 0.40, 0.45, 0.50, 0.60, 0.70, 0.80mm



Thermal Performance

	Thickness	Density(kg/m ³)	λ (w/mK)	U-Value(W/m ² K)	R-Value(m ² K/W)
PU Panel	100mm	38-40(± 2)	0.022-0.024	0.24-0.26	4.10-4.50
	120mm	38-40(± 2)	0.022-0.024	0.20-0.22	5.00-5.50
	150mm	38-40(± 2)	0.022-0.024	0.15-0.17	6.25-6.80

	Thickness	Density(kg/m ³)	λ (w/mK)	U-Value(W/m ² K)	R-Value(m ² K/W)
PIR Panel	100mm	40-42(± 2)	0.020-0.022	0.21-0.23	4.80-5.20
	120mm	40-42(± 2)	0.020-0.022	0.17-0.19	6.00-6.50
	150mm	40-42(± 2)	0.020-0.022	0.12-0.14	7.50-8.10



Load Span

Thickness	0.40mm	0.50mm	0.60mm
100mm	4.0m	5.0m	5.5m
120mm	4.8m	6.0m	6.5m
150mm	5.5m	7.0m	7.5m

Note: Final Span Depends On projects and Conditions And Structural Design.

Additional Properties



Closed Cell Content
PU(≥ 90%) / PIR(≥ 95%)



Water Absorption
PU(≤ 2%) / PIR(≤ 1.5%)



Vapour Resistance
PU(50-100) / PIR(100-150)



Operating temp
PU(-40°C to+80°C) / PIR(-50°C to+120°C)



Fire Class
PU(B2/B3) / PIR(B1/FR)

Key Features

- Advanced Cam-Lock System
- 100% Airtight & Vapour Tight Joint
- Clean External Finish
- Zero Thermal Bridging
- Strong Mechanical Locking
- High Structural Stability
- Gap-Free Panel Alignment
- Fast Installation & Easy Dismantling

Applications



Cold Storage



Temperature Controlled Warehouses



Industrial Facilities



Logistics Buildings



Power Plants



Commercial Infrastructure

Thermal Performance

	Thickness	Density(kg/m ³)	λ (W/mK)	U-Value(W/m ² K)	R-Value(m ² K/W)
PU Panel	30mm	38-40(± 2)	0.022-0.024	0.60-0.65	1.50-1.65
	40mm	38-40(± 2)	0.022-0.024	0.50-0.55	1.80-2.00
	50mm	38-40(± 2)	0.022-0.024	0.40-0.45	2.20-2.50
	60mm	38-40(± 2)	0.022-0.024	0.35-0.38	2.70-3.00

	Thickness	Density(kg/m ³)	λ (W/mK)	U-Value(W/m ² K)	R-Value(m ² K/W)
PIR Panel	30mm	40-42(± 2)	0.020-0.022	0.58-0.62	1.60-1.70
	40mm	40-42(± 2)	0.020-0.022	0.45-0.50	2.00-2.20
	50mm	40-42(± 2)	0.020-0.022	0.36-0.40	2.50-2.80
	60mm	40-42(± 2)	0.020-0.022	0.30-0.33	3.00-3.30



Load Span

Thickness	0.40mm	0.50mm	0.60mm
30mm	2.5m	2.8m	3.0m
40mm	2.8m	3.1m	3.3m
50mm	3.0m	3.4m	3.6m
60mm	3.2m	3.6m	3.9m

Note: Final Span Depends On projects and Conditions And Structural Design.

Additional Properties



Closed Cell Content
PU(≥ 90%) / PIR(≥ 95%)



Water Absorption
PU(≤ 2%) / PIR(≤ 1.5%)



Vapour Resistance
PU(50-100) / PIR(100-150)



Operating temp
PU(-40° to +80°C) / PIR(-50° to +120°C)



Fire Class
PU(B2/B3) / PIR(B1/FR)

Key Features

- Strong Tongue & Groove Joint
- Good thermal Insulation
- Durable Structure
- Weather Resistant
- Easy Installation

Applications



Industrial Factories



Warehouses & Logistics Buildings



Power Plants



Commercial & Infrastructure Projects

Signature ColdCore™ Wall

Standard Cold Room Wall Panel

Signature ColdCore™ Wall is a high-performance insulated sandwich panel designed for enhanced joint strength and thermal efficiency. It is ideal for applications requiring strong sealing, durability, and consistent insulation performance.

- Advanced W-shaped interlocking
- Improved airtightness and sealing



Technical Specifications



Effective Width
1000/1150mm



Density (PU)
38–40(± 2) kg/m³



Thickness
80/100/120/150mm



Density (PIR)
40–42(± 2) kg/m³



Panel Length
2.5m to upto 15m



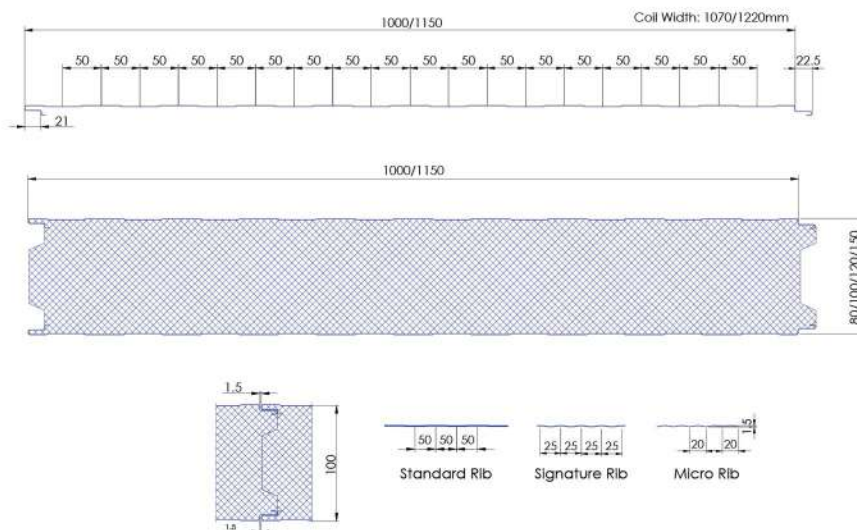
Thermal Conductivity
PU: 0.022–0.024, PIR: 0.020–0.022



Core Material
PU/PIR



Sheet Thickness
0.30, 0.35, 0.40, 0.45, 0.50, 0.60, 0.70, 0.80mm



Joint: Double Tongue
& Groove (W Joint)

Thermal Performance

Thickness	Density(kg/m ³)	λ (W/mK)	U-Value(W/m ² K)	R-Value(m ² K/W)	
PU Panel	80mm	38-40(± 2)	0.022-0.024	0.28-0.30	3.30-3.60
	100mm	38-40(± 2)	0.022-0.024	0.24-0.26	4.10-4.50
	120mm	38-40(± 2)	0.022-0.024	0.20-0.22	5.00-5.50
	150mm	38-40(± 2)	0.022-0.024	0.15-0.17	6.25-6.80

Thickness	Density(kg/m ³)	λ (W/mK)	U-Value(W/m ² K)	R-Value(m ² K/W)	
PIR Panel	80mm	40-42(± 2)	0.020-0.022	0.26-0.28	3.80-4.20
	100mm	40-42(± 2)	0.020-0.022	0.21-0.23	4.80-5.20
	120mm	40-42(± 2)	0.020-0.024	0.17-0.19	6.00-6.50
	150mm	40-42(± 2)	0.020-0.022	0.12-0.14	7.50-8.10



Load Span

Thickness	0.40mm	0.50mm	0.60mm
80mm	3.2m	4.0m	4.5m
100mm	4.0m	5.0m	5.5m
120mm	4.8m	6.0m	6.5m
150mm	5.5m	7.2m	8.0m

Note: Final Span Depends On projects and Conditions And Structural Design.

Additional Properties

- Closed Cell Content**
PU(≥ 90%) / PIR(≥ 95%)
- Water Absorption**
PU(≤ 2%) / PIR(≤ 1.5%)
- Vapour Resistance**
PU(50-100) / PIR(100-150)
- Operating temp**
PU(-40°C to +80°C) / PIR(-50°C to +120°C)
- Fire Class**
PU(B2/B3) / PIR(B1/FR)

Key Features

- Double W Shaped Joint Design
- Enhanced Airtight Sealing
- Prevents Moisture Ingress
- Reduce Thermal Loss
- Strong panel Alignment
- Long-term Joint Durability
- Clean Seamless Finish
- Improved Structural Rigidity

Applications



Industrial Factories



Warehouses & Logistics Buildings



Power Plants



Commercial & Infrastructure Projects

Thermal Performance

	Thickness	Density(kg/m ³)	λ (W/mK)	U-Value(W/m ² K)	R-Value(m ² K/W)
PU Panel	50mm	38-40(± 2)	0.022-0.024	0.40-0.45	2.20-2.50
	80mm	38-40(± 2)	0.022-0.024	0.28-0.30	3.30-3.60
	100mm	38-40(± 2)	0.022-0.024	0.24-0.26	4.10-4.50
	Thickness	Density(kg/m ³)	λ (W/mK)	U-Value(W/m ² K)	R-Value(m ² K/W)
PIR Panel	50mm	40-42(± 2)	0.020-0.022	0.36-0.40	2.50-2.80
	80mm	40-42(± 2)	0.020-0.022	0.26-0.28	3.80-4.20
	100mm	40-42(± 2)	0.020-0.022	0.21-0.23	4.80-5.20








Load Span

Thickness	0.40mm	0.50mm	0.60mm
50mm	3.2m	3.7m	4.1m
80mm	4.0m	4.6m	5.0m
100mm	4.5m	5.1m	5.6m

Note: Final Span Depends On projects and Conditions And Structural Design.

Additional Properties

-  **Closed Cell Content**
PU(≥ 90%) / PIR(≥ 95%)
-  **Water Absorption**
PU(≤ 2%) / PIR(≤ 1.5%)
-  **Vapour Resistance**
PU(50-100) / PIR(100-150)
-  **Operating temp**
PU(-40°C to +80°C) / PIR(-50°C to +120°C)
-  **Fire Class**
PU(B2/B3) / PIR(B1/FR)

Key Features

- True Hidden Fastener System
- Joint Secret Fix Hidden Screw Joint
- Fire-Resistant Option (PIR)
- Long Life & Low Maintenance
- Zero Thermal Bridging
- Weather Resistant
- Hygienic Smooth Finish
- High Structural Strength
- Superior Insulation Performance
- Fast Installation

Applications



Industrial Buildings



Cold Storage & Refrigeration



Commercial Buildings



Clean Rooms & Pharma Units



Prefabricated Structures



Agricultural Buildings



Data Centers & IT Facilities



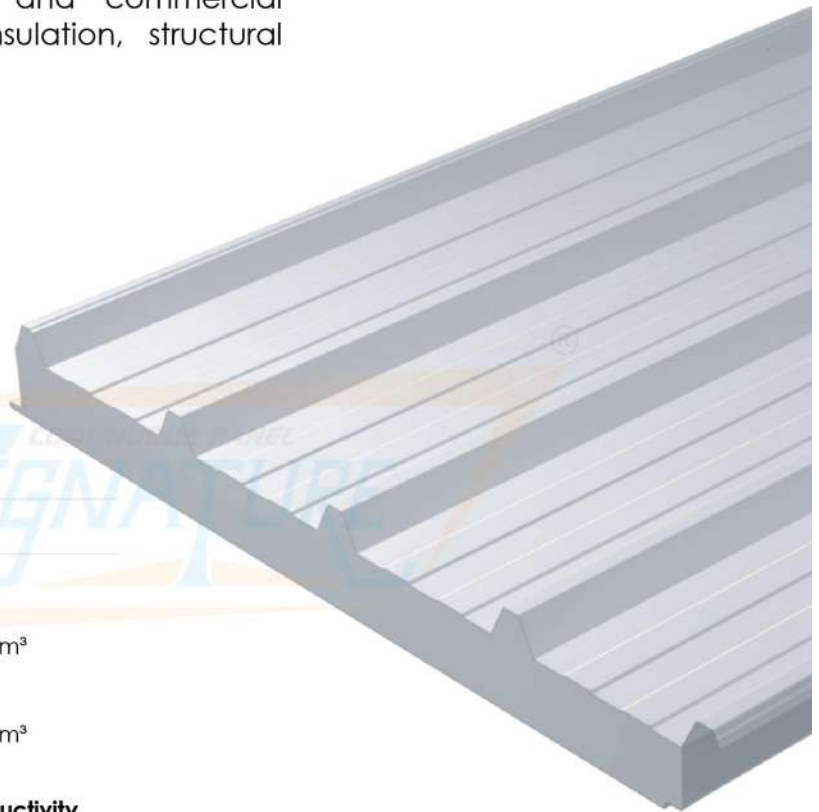
Residential & Hospitality Projects

Signature TopRoof™

Insulated Roof Sandwich Panel

Signature TopRoof™ is a high-performance PU/PIR Insulated roofing panel designed for industrial and commercial buildings. It offers excellent thermal insulation, structural strength, and weather protection.

- Strong water drainage design
- Leak-resistant performance
- Easy installation



Technical Specifications:



Effective Width
1000mm



Density (PU)
38–40(± 2) kg/m³



Thickness
30/40/50/60/80/
100/120mm



Density (PIR)
40–42(± 2) kg/m³



Panel Length
2.5m to upto 12m



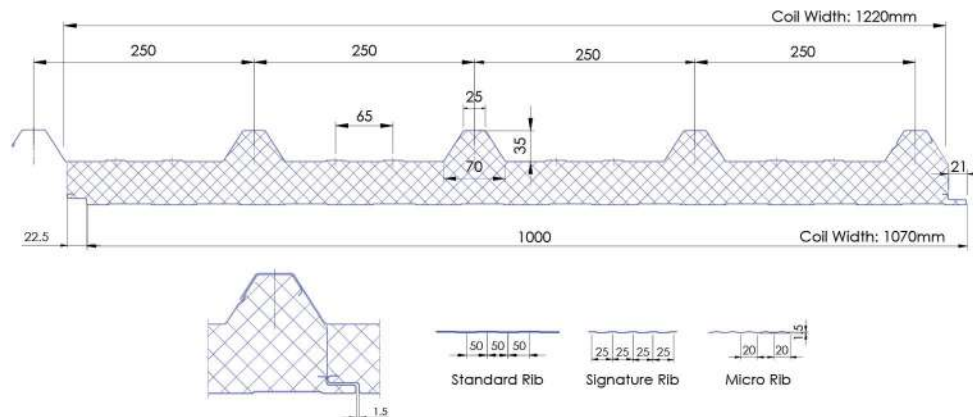
Thermal Conductivity
PU: 0.022–0.024, PIR: 0.020–0.022



Core Material
PU/PIR



Sheet Thickness
0.30, 0.35, 0.40, 0.45, 0.50, 0.60, 0.70, 0.80mm



Joint: Overlap type

Thermal Performance

	Thickness	Density(kg/m ³)	λ (w/mK)	U-Value(W/m ² K)	R-Value(m ² K/W)
PU Panel	30mm	38-40(± 2)	0.022-0.024	0.60-0.65	1.50-1.65
	40mm	38-40(± 2)	0.022-0.024	0.50-0.55	1.80-2.00
	50mm	38-40(± 2)	0.022-0.024	0.40-0.45	2.20-2.50
	60mm	38-40(± 2)	0.022-0.024	0.35-0.38	2.70-3.00
	80mm	38-40(± 2)	0.022-0.024	0.28-0.30	3.30-3.60
	100mm	38-40(± 2)	0.022-0.024	0.24-0.26	4.10-4.50
	120mm	38-40(± 2)	0.022-0.024	0.20-0.22	5.00-5.50

	Thickness	Density(kg/m ³)	λ (w/mK)	U-Value(W/m ² K)	R-Value(m ² K/W)
PIR Panel	30mm	40-42(± 2)	0.020-0.022	0.58-0.62	1.60-1.70
	40mm	40-42(± 2)	0.020-0.022	0.45-0.50	2.00-2.20
	50mm	40-42(± 2)	0.020-0.022	0.36-0.40	2.50-2.80
	60mm	40-42(± 2)	0.020-0.022	0.30-0.33	3.00-3.30
	80mm	40-42(± 2)	0.020-0.022	0.26-0.28	3.80-4.20
	100mm	40-42(± 2)	0.020-0.022	0.21-0.23	4.80-5.20
	120mm	40-42(± 2)	0.020-0.022	0.17-0.19	6.00-6.50



Load Span

Thickness	0.40mm	0.50mm	0.60mm
30mm	2.2 m	2.5 m	2.8 m
40mm	2.5 m	2.9 m	3.2 m
50mm	2.8 m	3.3 m	3.6 m
60mm	3.2 m	3.7 m	4.0 m
80mm	3.8 m	4.4 m	4.8 m
100mm	4.2 m	4.8 m	5.2 m
120mm	4.6 m	5.3 m	5.8 m

Note: Final Span Depends On projects and Conditions And Structural Design.

Additional Properties



Closed Cell Content
PU(≥ 90%) / PIR(≥ 95%)



Water Absorption
PU(≤ 2%) / PIR(≤ 1.5%)



Vapour Resistance
PU(50-100) / PIR(100-150)



Operating temp
PU(-40°C to +80°C) / PIR(-50°C to +120°C)



Fire Class
PU(B2/B3) / PIR(B1/FR)

Key Features

- High Thermal Insulation
- Weather Resistant (Rain & Heat)
- Lightweight Roofing Solution
- Fast Intallation
- Leak-Resistant Overlap Joint
- Energy Efficient

Applications



Industrial Sheds



Warehouses



Manufacturing Units



Commercial Buildings



Logistics Parks



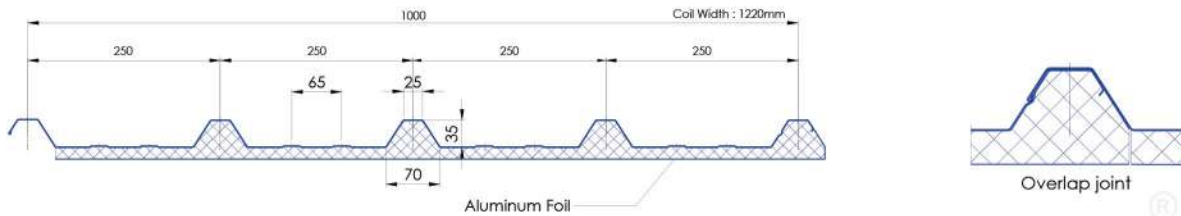
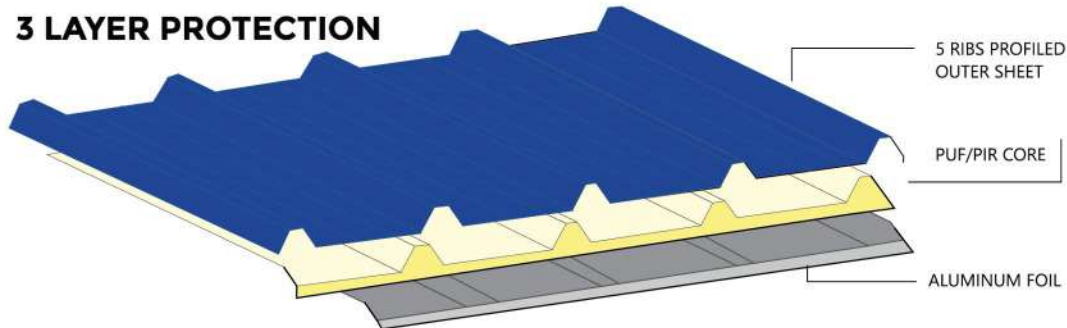
Pre-Engineered Buildings (PEB)

SINGLE ROOF A FIRST IN INDIA!

Signature CoolRoof™ is an economical insulated roofing solution designed to reduce heat gain significantly compared to conventional metal roofing, using a thin high-performance PU/PIR insulation layer.



3 LAYER PROTECTION



General Specifications

Parameter	specification
Product Type	Insulated Cool Roof Sheet
Insulation Core	PU / PIR
Core Thickness	10 mm
Overall Profile Height	~40-45mm (with crest)
Effective Width	~1000 mm
Sheet Material	PPGL / PPGI
Sheet Thickness	0.40 - 0.60 mm
Coating	RMP , SMP , SDP
Coating Grade	AZ70 / AZ150

Thermal Performance

Parameter	Value
Thermal Conductivity (K)	0.022 - 0.024 W/mk
U-Value	~2.2 - 2.5 W/m ² K
R-Value	~0.40 - 0.45 m ² K/W
Temperature Reduction	8°C - 12°C vs normal sheet

Fire Performance

Property	Value
PU	Self-extinguishing (FR grade)
PIR	Better fire resistance, low flame spread
Behavior	Forms char layer, does not drip

Mechanical Properties

Property	Value
Compressive Strength	150-180kPa
Shear Strength	90-120 kPa
Adhesion	Excellent (foam bonded to Sheet)
Load Bearing	Profile dependent (acts like metal roof sheet)

Key Features

- Cost-effective alternative to full PUF panel
- Significant heat reduction vs bare sheet
- Lightweight & easy installation
- Compatible with existing roofing structure
- Reflective outer surface reduces solar gain
- Optional aluminium foil bottom layer

Applications

- Industrial sheds
- Temporary structures
- Factories
- Warehouses



Introducing Signature FireX™ Series

A Rockwool Insulated Panel

Advanced Fire-Resistant Panel Solutions

Fire safety is no longer optional — it's essential. The Signature FireX Series is engineered to deliver superior fire resistance, structural strength, and long-term performance for modern industrial and commercial spaces.



Signature FireX™ Panel

**Built for Safety.
Designed for Performance.**

Our FireX Series Includes

- Signature SeamLex™ Wall
- Signature TopRoof™
- Signature SolarSeam™ Roof

Thermal Performance

Thickness	Density(kg/m ³)	λ (W/mK)	U-Value(W/m ² K)	R-Value(m ² K/W)
50mm	96-100	0.040-0.043	0.80-0.85	1.20-1.30
80mm	96-100	0.040-0.043	0.50-0.55	1.80-2.00
100mm	96-100	0.040-0.043	0.40-0.45	2.30-2.50
150mm	96-100	0.040-0.043	0.33-0.36	2.80-3.10

Load Span

Thickness	Single Span	Double Span
50mm	1.0m	2.0m
80mm	1.5m	3.0m
100mm	2.0m	4.0m
150mm	2.2m	4.5m

Note: Final Span Depends On projects and Conditions and Structural Design.

Key Features

- Non-Combustible Rockwool Core
- High Fire Resistance
- Hidden Screw Aesthetic Finish
- Reduced edge damage
- Strong Airtight Sealing
- Fast Installation
- Long Service Life

Signature FireX Panel with PIR EdgeSeal Technology eliminates weak fiber edges in conventional Rockwool panels by integrating high-density reinforced side zones. This ensures

Key Benefits

- Reinforced joint integrity
- Superior fastener holding
- Improved shear transfer
- Reduced edge damage
- Better alignment
- Cleaner installation
- Long-term durability

stronger joints, superior fastener holding, and enhanced durability while maintaining fire-safe performance

Benefits

- PIR Side Sealing For Better Strength
- A1 Fire Rated
- High Thermal Efficiency

Applications



Industrial Factories



Warehouses & Logistics Buildings



Power Plants



Commercial & Infrastructure Projects

Additional Properties

-  **High Temperature Resistance**
Up to 1000°C+
-  **Fire Resistance**
A1 Class | Non-Combustible
-  **Acoustic Insulation**
High Sound Absorption
-  **Water Repellent**
Water Resistant | Breathable
-  **Vapour Permeability**
Allows Moisture Flow

EXCLUSIVE
PRODUCT

Signature TopRoof™

Rockwool Insulated Sandwich Roof Panel

Signature FireX TopRoof™ is a rockwool insulated sandwich panel designed for roofing applications requiring high fire resistance, thermal insulation, and structural strength.

**SIGNATURE
FIREX™
PANEL**
Fire Resistance. Future Ready.

- Simple and strong installation
- Reliable weather protection

Technical Specifications



Effective Width
1000mm



Density (PU)
96-100 kg/m³



Thickness
50/80/100mm



Thermal Conductivity
0.040-0.043 w/mk



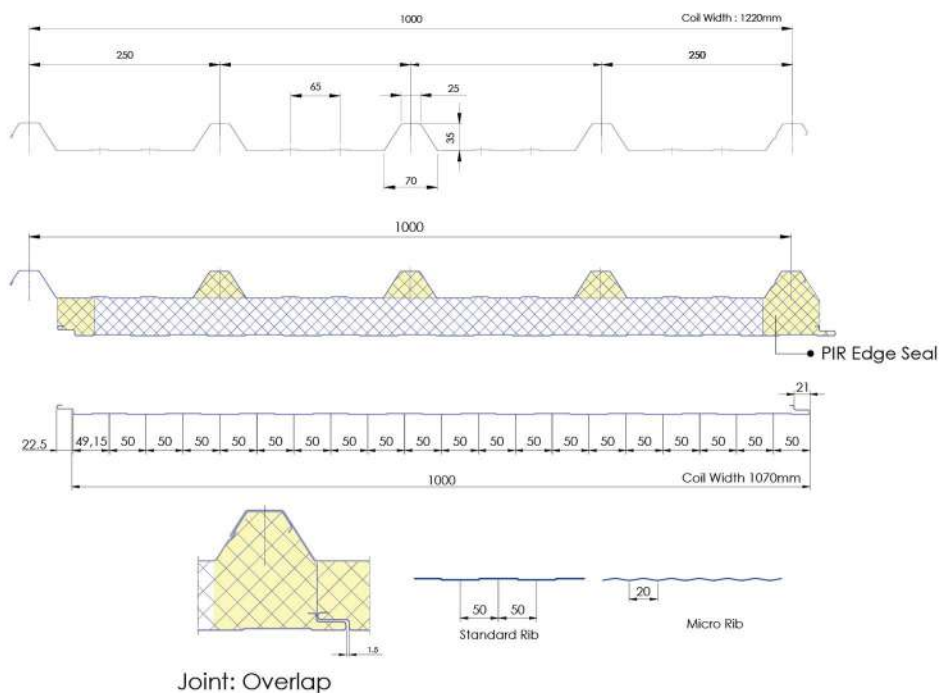
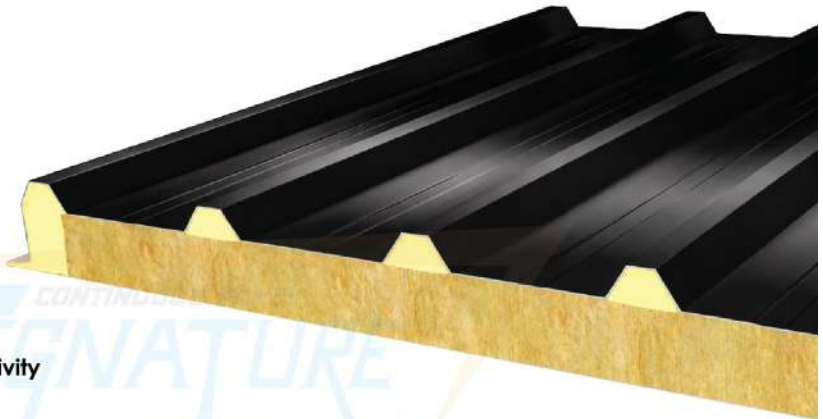
Panel Length
Up to 8m



Sheet Thickness
0.40, 0.50, 0.60, 0.70, 0.80mm



Core Material
High Density Rockwool



Thermal Performance

Thickness	Density(kg/m ³)	λ (W/mK)	U-Value(W/m ² K)	R-Value(m ² K/W)
50mm	96–100	0.040–0.043	0.80–0.85	1.20–1.30
80mm	96–100	0.040–0.043	0.50–0.55	1.80–2.00
100mm	96–100	0.040–0.043	0.40–0.45	2.30–2.50

Load Span

Thickness	Single Span	Double Span
50mm	1.0m	2.0m
80mm	1.5m	3.0m
100mm	2.0m	4.0m

Note: Final Span Depends On projects and Conditions And Structural Design.

Key Features

- Non-Combustible Rockwool Core
- Excellent Thermal & Acoustic Performance
- Strong Airtight Edge Sealing
- High Fire Resistance
- fast Installation
- Long Service Life

Additional Properties

-  **Fire Classification**
A1 (Non-Combustible)
-  **Melting Point**
>1000°C
-  **Water Absorption**
≤ 1%
-  **Vapour Permeability**
High (Breathable)
-  **Acoustic Performance**
Excellent Sound Absorption
-  **Operating temp**
-50°C to +250°C
-  **Corrosion Resistance**
Non-Corrosive

Signature FireX Panel with PIR EdgeSeal Technology eliminates weak fiber edges in conventional Rockwool panels by integrating high-density reinforced side zones. This ensures

Key Benefits

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- Superior fastener holding
- Improved shear transfer
- Reduced edge damage
- Better alignment
- Cleaner installation
- Long-term durability

stronger joints, superior fastener holding, and enhanced durability while maintaining fire-safe performance

Benefits

- PIR Side Sealing For Better Strength
- A1 Fire Rated
- High Thermal Efficiency

Applications



Industrial Factories



Warehouses & Logistics Buildings



Power Plants



Commercial & Infrastructure Projects

EXCLUSIVE
PRODUCT

Signature SolarSeam™ Roof

Standing Seam Solar support Roof Panel

Signature FireX SolarSeam™ is a high-performance rockwool insulated sandwich panel designed for industrial roofing applications where fire safety, thermal insulation, and solar integration are critical.

**SIGNATURE
FIREX™
PANEL**
Fire Resistance. Future Ready.

- Leak-proof design
- No exposed fasteners

Technical Specifications



Effective Width
1000mm



Density (PU)
96-100 kg/m³



Thickness
50/80/100mm



Thermal Conductivity
0.040-0.043 w/mk



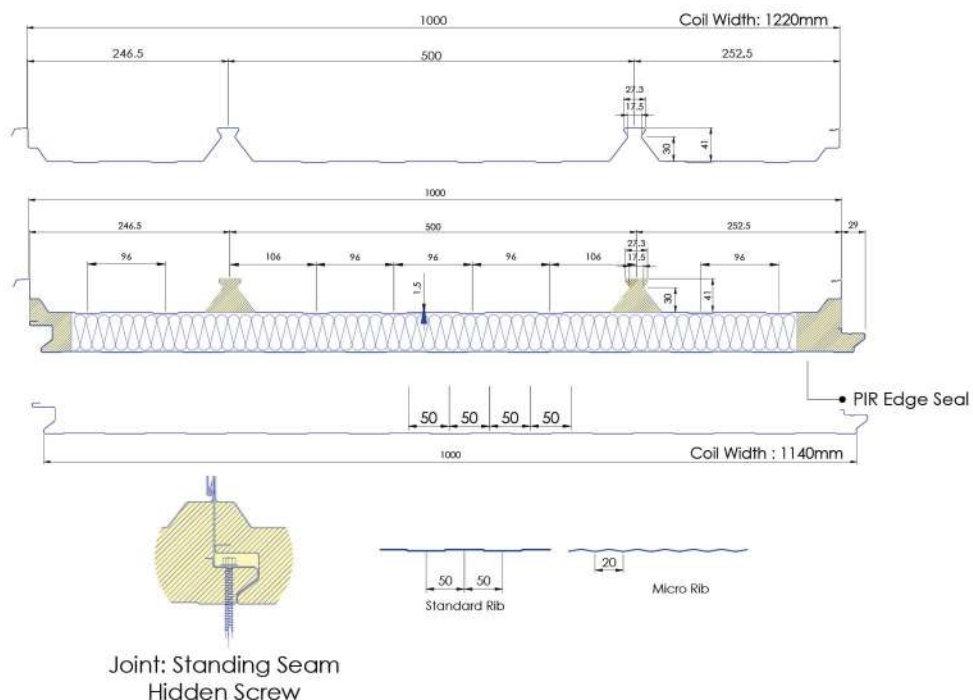
Panel Length
Up to 8m



Sheet Thickness
0.40, 0.50, 0.60, 0.70, 0.80mm



Core Material
High Density Rockwool



Thermal Performance

Thickness	Density(kg/m ³)	λ (W/mK)	U-Value(W/m ² K)	R-Value(m ² K/W)
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Load Span

Thickness	Single Span	Double Span
50mm	1.0m	2.0m
80mm	1.5m	3.0m
100mm	2.0m	4.0m

Conditions: Wind Load 0.6 kN/m², Deflection Limit L/200

Note: Final Span Depends On projects and Conditions And Structural Design.

Key Features

- Solar Mounting Without Drilling
- Weather Resistant
- Excellent Thermal & Acoustic Insulation
- Standing Seam Leak-Proof Design
- High Structural Strength
- Strong Airtight Sealing
- Fire-Safe Rockwool Core

Signature FireX Panel with PIR EdgeSeal Technology eliminates weak fiber edges in conventional Rockwool panels by integrating high-density reinforced side zones. This ensures

Key Benefits

- Reinforced joint integrity
- Reduced edge damage
- Long-term durability
- Superior fastener holding
- Better alignment
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Benefits

- PIR Side Sealing For Better Strength
- A1 Fire Rated
- High Thermal Efficiency

Applications



Industrial Factories



Warehouses & Logistics Buildings



Power Plants

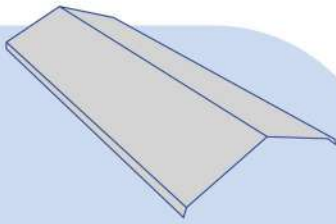


Commercial & Infrastructure Projects

Additional Properties

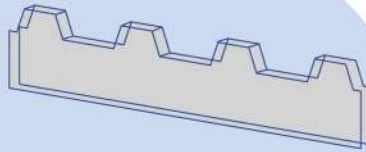
- Fire Classification**
A1 (Non-Combustible)
- Melting Point**
>1000°C
- Water Absorption**
≤ 1%
- Vapour Permeability**
High (Breathable)
- Acoustic Performance**
Excellent Sound Absorption
- Operating temp**
-50°C to +250°C
- Corrosion Resistance**
Non-Corrosive

Accessories



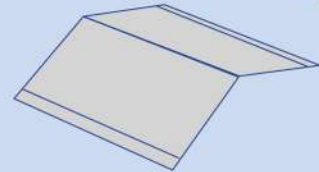
External Plain Ridges

For Roof Top Made out of 0.45mm TCT PPGI Sheet 250x250 3 mtr



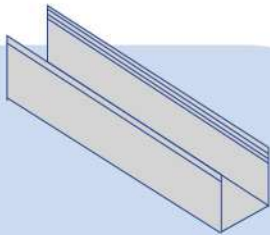
Roof trapezoidal End Cap

made Out of 0.45mm TCT PPGI Sheet



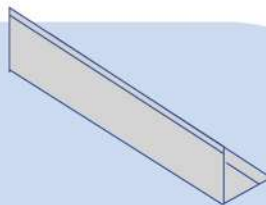
Internal Ridge

For Roof Bottom, made out of 0.45mm TCT PPGI Sheet 250x250 3 mtr



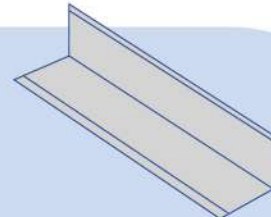
C-Channel

For Wall Bottom and for door and Window cutout; made out of 0.45mm TCT PPGL Sheet 3 mtr. Customize as per wall size.



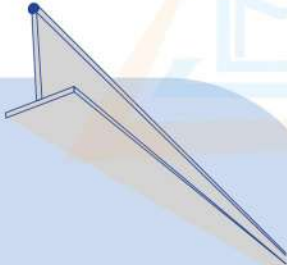
Internal L Angle

For Internal wall to wall corner, internal roof to wall corner and external roof to wall corner made out of 0.45mm TCT PPGL Sheet 40x40x3 mtr.



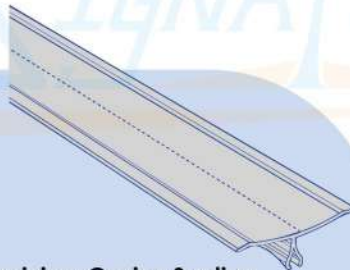
External L-Angle

For External Wall to wall Corner made out of 0.45mm TCT PPGI Sheet & Customize as per wall size 3 mtr



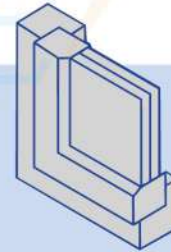
Aluminium T Section For Ceiling

T Suspension made from 4 mm high-quality aluminium extrusion ensures strong, stable, and durable ceiling support. Size: 100 × 70 mm, Length: 5 meters.



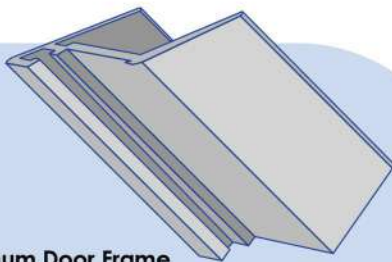
Aluminium Coving Section

Made from high-quality aluminium, it ensures a smooth, hygienic wall-to-ceiling finish. 3-meter length for seamless installation and long-lasting durability.



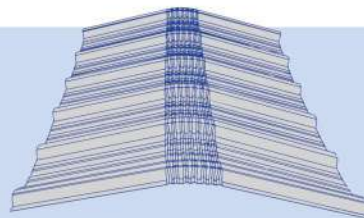
Aluminium Window Section

Made from 2 mm high-quality aluminium, designed for double-fix view panels. Suitable for 50 mm wall partitions with a 2200 mm standard length.



Aluminum Door Frame

Made from 3 mm high-quality aluminium, this profile ensures strong and precise door installation. With a 2200 mm standard length, it offers excellent stability, corrosion resistance, and a sleek finish—ideal for clean rooms and modern interiors.



External Profile Ridge

Specially crafted to match roof panel profiles, ensuring a sleek look and leak-proof ridge finish. Precisely manufactured for perfect alignment, it enhances both aesthetics and weather protection. Size: 300 × 300 mm with 1-meter effective width.

Client List



MANY MORE CLIENT

Projects



Warehouse



Sports Complex

MANY MORE COMPLETED PROJECTS



UMA SIGNATURE PUF PANEL LLP

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