



RAPID CONSTRUCTION EXCEEDING EXPECTATIONS

[www.epack.in](http://www.epack.in)



# EPACK INSULATED SANDWICH PANELS

RAPID

ENERGY-EFFICIENT

BUILT TO LAST

## COMPANY PROFILE ▶



EPACK PREFAB is one of the leading manufacturers of Insulated Sandwich Panels, delivering high-quality, energy-efficient solutions for industrial and commercial applications.

The principal activity of the organization comprises:

- Insulated Continuous Sandwich Panel Manufacturing
- Pre Engineered and Modular Prefabricated Buildings
- Light Gauge Steel Framing

With a production capacity of 13,10,000 SQM per annum, EPACK PREFAB has established itself as a key player in the sandwich panel industry, offering building envelop, Cold Storage and Clean Room solutions that ensure superior thermal insulation, durability, and ease of installation. Since the inception of EPACK PREFAB in 1999 at a prime location in Greater Noida, EPACK has grown to become one of the leading manufacturers of Sandwich Panels (PUR/PIR, ROCKWOOL, GLASSWOOL & EPS) in India, having covered over millions of sq. ft area worldwide.

 **PAN India**  
Projects Executed

 **35,470,629**  
Safe Man Hours

 **2007**  
Projects Delivered in Last 3 years

## CERTIFICATIONS



## EMPANELMENTS



# OUR PRODUCTS & APPLICATIONS

## MODULAR PREFABRICATED BUILDINGS

- Accommodations
- Schools/Hospitals
- Construction Site Offices
- Relief Camps etc...



## INSULATED SANDWICH PANELS

- PUR/PIR Insulated Panels
- EPS Insulated Panels
- ROCKWOOL Insulated Panels
- GLASSWOOL Insulated Panels



## PRE ENGINEERED BUILDINGS

- Warehouses
- Factory Sheds / Industrial Buildings
- Multi-storey Buildings
- Commercial Buildings etc...



## LGSF BUILDINGS

- High Rise Buildings
- Transit Camps
- Office Buildings
- Villa / Cottages etc...



### Structures

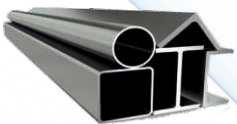
Builtup & Hot Rolled Section



Cold Formed Structures

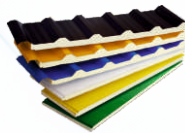


Hollow Sections



### Roof & Wall

Insulated Sandwich Panels



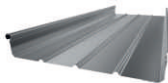
Light Gauge Steel Framing



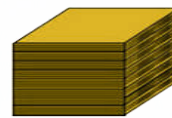
Single Skin Sheet



Standing Seam Roof



### Insulation



PUR/PIR  
EPS  
Rockwool  
Glasswool



Bubble / XLPE

### Flooring

Leveling Mortar  
Concrete  
Topping

Steel Mesh

Metal Deck Flooring

Steel Beam

Flooring Material Such as  
Tiles, Laminated Flooring,  
Parquet etc.

Flooring Material  
Such as Tiles,  
Laminated Flooring,  
Rubber Tiles,  
Carpets etc.

Cement Board

Steel Joist

Steel Beam



# All India Presence with STATE-OF-THE-ART MANUFACTURING FACILITY

\*Sandwich Panel Capacity  
13,10,000 sqm/annum



Panel Capacity: 510,000 Sqm/ Annum

Unit 1 & 2  
Greater Noida, Uttar Pradesh



Panel Capacity: 18,00,000 SQM / Annum

Unit 5  
Mumbatu(Tirupati), Andhra Pradesh

\*PEB Production Capacity  
1,33,924 MT/ annum



PEB Plant Capacity: 38,262 MT

Unit 1 & 2  
Greater Noida, Uttar Pradesh



PEB Plant Capacity: 27,550 MT

Unit 3  
Ghiloth, Rajasthan



PEB Plant Capacity: 68,112 MT

Unit 4  
Mumbatu(Tirupati), Andhra Pradesh



Scan for  
360 Plant View



## REGIONAL PRESENCE

HYDERABAD | CHENNAI | AHMEDABAD | NEW DELHI | JAIPUR | BHUBANESWAR | MUMBAI | PUNE | VADODARA | VAPI | SURAT | KOLKATA  
INDORE | BANGALORE | VIZAG | JAMSHEDPUR | PATNA | COIMBATORE | CHANDIGARH | GUWAHATI

Decoiling System

Laminating System

Roll Forming System

Adhesive(Glue) System

Side PU Injection System

PU/PIR Foaming System



Mineral-wool board feeding system

EPS board feeding system

# CONTINUOUS SANDWICH PANEL PRODUCTION LINE



Decoiling System



Roll Forming System



Double Belt System



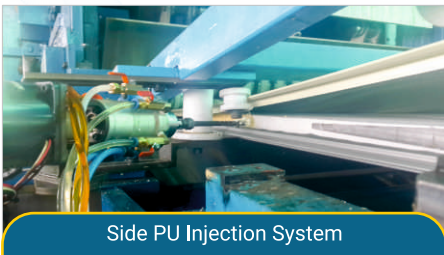
Mineral-Wool Board Feeding System



EPS Board Feeding System



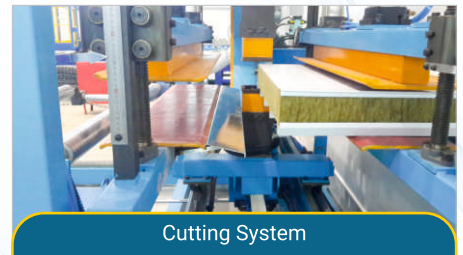
Adhesive(Glue) System



Side PU Injection System



Laminating System



Cutting System



Cooling System



Stacking System



Wrapping System

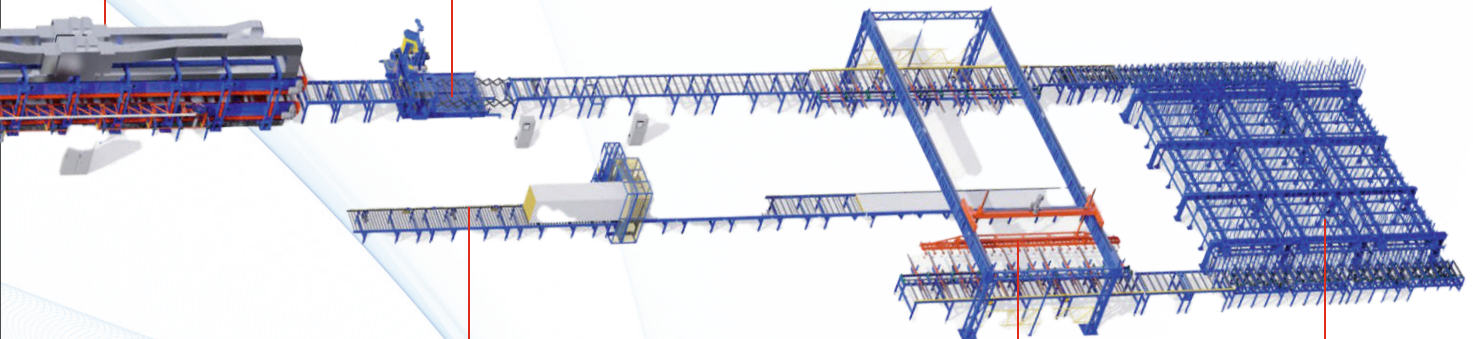
Double Belt System

Cutting System

Wrapping System

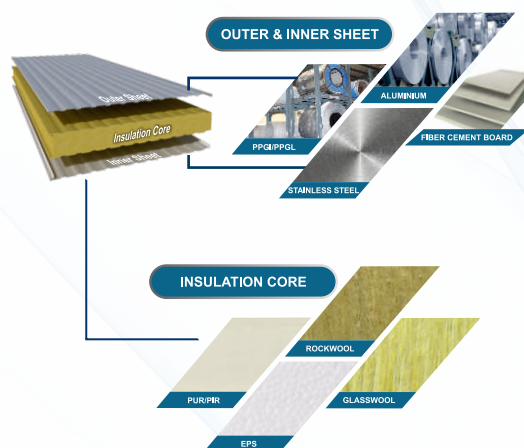
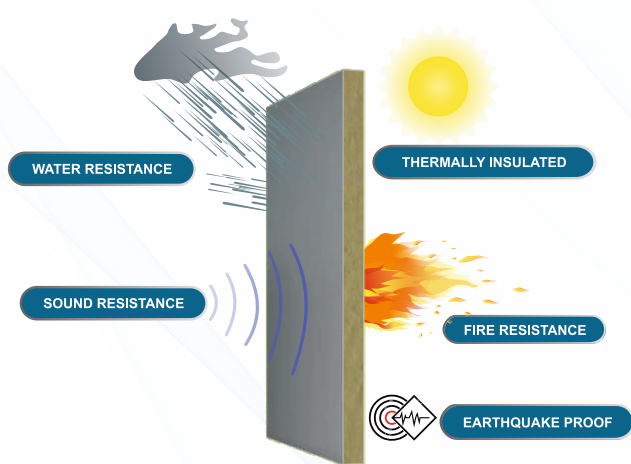
Stacking System

Cooling System



# INSULATED SANDWICH PANELS

At EPACK PREFAB, we manufacture high-performance Insulated Continuous Line Sandwich Panels building designed for superior thermal efficiency, fire safety, and structural durability. These panels, available with PUR/PIR, EPS, Rockwool, and Glasswool cores, provide optimal insulation and energy savings, making them ideal for industrial, commercial, and residential applications, including cold storage, modular buildings, and clean rooms. Our insulated panels are engineered for environmental sustainability, ensuring minimal energy consumption and lower carbon footprint. They are CFC and HCFC-Free, with zero ODP (Ozone Depletion Potential) ratings, contributing to eco-friendly construction. Additionally, Rockwool and Glasswool panels are made from recyclable materials, enhancing their green building certification and sustainability credentials. Manufactured in state-of-the-art facilities, our Continuous Line Panels undergo strict quality control and testing to meet global construction standards. Their lightweight yet robust structure enables faster installation, reducing overall project timelines and supporting sustainable building practices. With high energy efficiency, reduced environmental impact, and long-term durability, EPACK Prefab Continuous Panels provide a cost-effective, green, and innovative solution for modern construction needs.



## PANEL TEST REPORTS



PANEL NAME	TEST TYPE	TEST STANDARD	TEST RESULTS
Rock Wool Panel	Fire Resistance Test (2 HRS)	BS 476-20:1987 & BS 476-22:1987	Integrity: 120 minutes, Insulation: 120 minutes
PUF Panel	Thermal Conductivity Test	ASTM C518-2016	Thermal Conductivity: 0.01985 W/mK (Requirement: max. 0.023 W/mK)
PUF Panel	Water Vapor Transmission Rate	IS 11239: 2014 (Part-4)	Mean: 1.21 ng/pa.s.m (Requirement: 5.5 max for PUR-1)
PUF Panel	Compressive Strength (10% Core deformation)	ASTM D1621-2016 (RA-2023)	Mean: 137.3 kN/m <sup>2</sup> (Requirement: 115 min for PUR-1)
PUF Panel	Apparent Density Test	ASTM D1622-20	Mean: 40.2 kg/m <sup>3</sup>
PUF Panel	Tensile Strength Test	ASTM D1623-17 (Reapproved 2023)	Mean: 386.8 kPa
PUF Panel	Closed Cell Content	IS:11239 (Part5)- 2009 (Method- 2)	Mean: 95.4% (Requirement: 85% min)
PUF Panel	Dimensional Stability	ASTM D2126-2015	At 70°C for 24 hours: (-) 0.88% (Requirement: ±2%)
PUF Panel	Water Absorption Test	IS 11239: 1988 (Part-9)	Mean: 0.55% by volume
PUF Panel	Climbing Drum Peel Test	ASTM D1781-1998 (2004)	Average: 0.71 N/mm
PUF Panel	Adhesion Strength	ASTM C297-2016	Mean: 233 kPa
PUF Panel	Flexural Strength	IS 11239-10,1985	Mean: 576 kPa
PUF Panel	CFCs & HCFCs Analysis	Not specified	All 37 CFC and HCFC compounds: Not Detected (MQL: 1 mg/kg)
PUF Panel	Fire Ignitability Test	BS 476 Part 5:1979	Index of Performance: P <sub>i</sub> constant mass at a temperature of 23 ± 2°C and a relative humidity of 50 ± 5%
PUF Panel	Horizontal Burning Characteristics	IS:11239(Part12)-1988	Mean Burning Extent: 12mm

# APPLICATIONS



Industrial & Commercial Buildings



Modular & Prefabricated Structures



Data Center Buildings



Clean Rooms & Laboratories



GIS Building



Sports Complexes



Exhibition Centers



Green & Sustainable Buildings



Institutional Buildings



Cold Storage & Refrigerated Warehouses



Airport Terminal Buildings

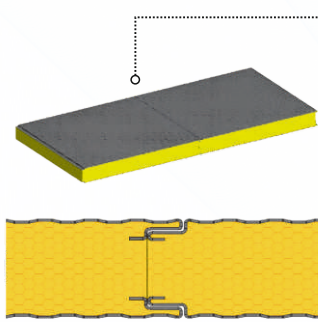


Agriculture Buildings

## EPACK SINGLE GROOVE WALL PANEL

The EPACK Wall Panel is an advanced insulated panel system designed for **Building Facade, Modular Building, Partition & Cladding, Institution Building etc**. These panels provide high thermal efficiency, superior fire resistance, and airtight construction, ensuring long-term durability and reduced energy costs.

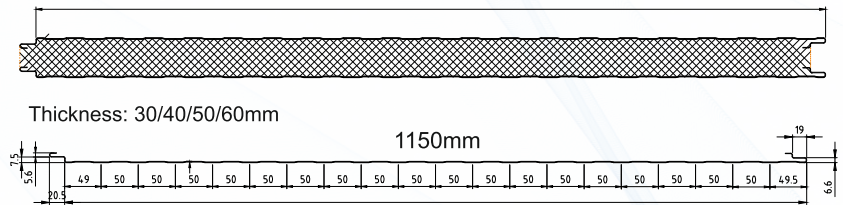
These panels are designed for maximum energy efficiency, superior insulation, and long-lasting performance, making it the preferred choice for multiple industries



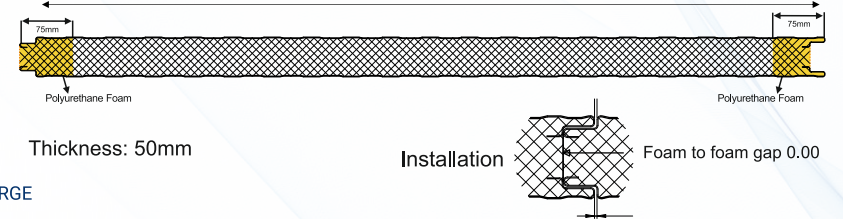
Types of Ribbing	Standard Rib, Micro Rib	
Types of Panels	PIR/PUR	Rockwool Panels
Thickness	30/40/50/60mm	50mm
Width*	1150mm	1150mm

\* ALSO AVAILABLE IN WIDTH 1000MM IF ORDER QUANTITY IS LARGE

**PIR/PUR Panel**  
1150mm



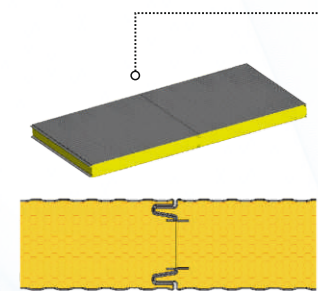
**Rockwool Panel**  
1150mm



## EPACK DOUBLE GROOVE WALL PANEL

The EPACK Cold Wall Panel is a high-performance insulated panel designed for temperature-controlled environments, such as **cold storage facilities, clean rooms, and industrial applications**. These panels offer exceptional thermal insulation, fire resistance, and structural integrity, ensuring optimal performance and energy efficiency.

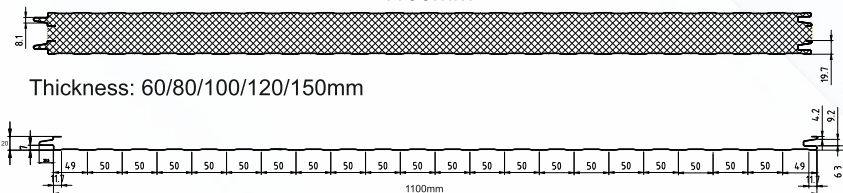
These panels are designed for energy efficiency, longevity, and superior insulation performance, making it the preferred choice for high-performance cold storage solutions.



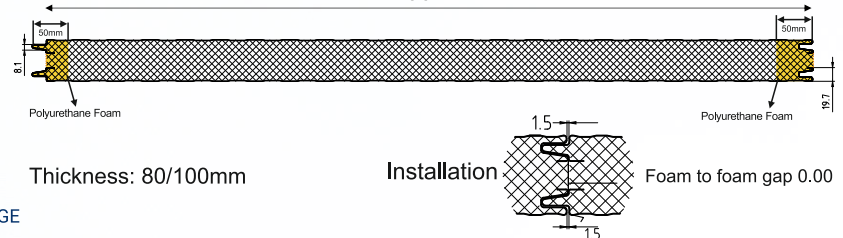
Types of Ribbing	Standard Rib, Micro Rib	
Types of Panels	PIR/PUR	Rockwool Panels
Thickness	60/80/100/120/150mm	80/100mm
Width*	1100mm	1100mm

\* ALSO AVAILABLE IN WIDTH 950MM IF ORDER QUANTITY IS LARGE

**PIR/PUR Panel**  
1100mm



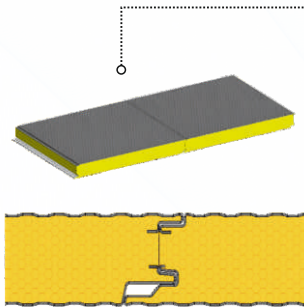
**Rockwool Panel**  
1100mm



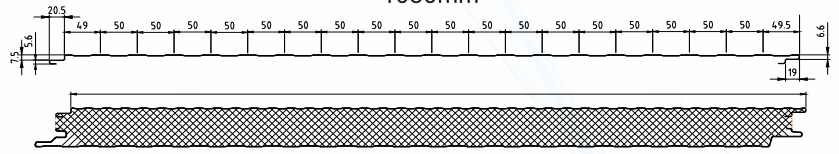
## EPACK HIDDEN SCREW WALL PANEL

The EPACK Hidden Screw Type Wall Panel is engineered for seamless aesthetics, superior insulation, and structural durability, making it an ideal choice for industrial, commercial, and modular construction. Its hidden screw fixing system ensures a clean, uninterrupted surface, enhancing both aesthetic appeal and weather resistance.

These panels offers high-performance building solution, combining insulation efficiency, durability, and modern design for advanced prefabricated and modular construction.

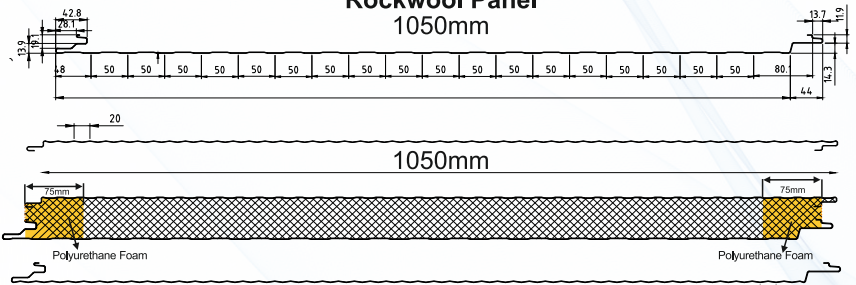


**PIR/PUR Panel**  
1050mm

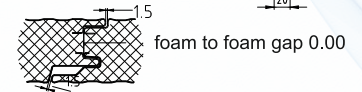


Thickness: 50mm

**Rockwool Panel**  
1050mm



Thickness: 50mm

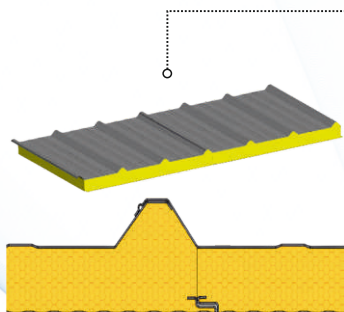


Types of Ribbing	Standard Rib, Micro Rib	
Types of Panels	PIR/PUR	Rockwool Panels
Thickness	50/60mm	50mm
Width*	1050mm	1050mm

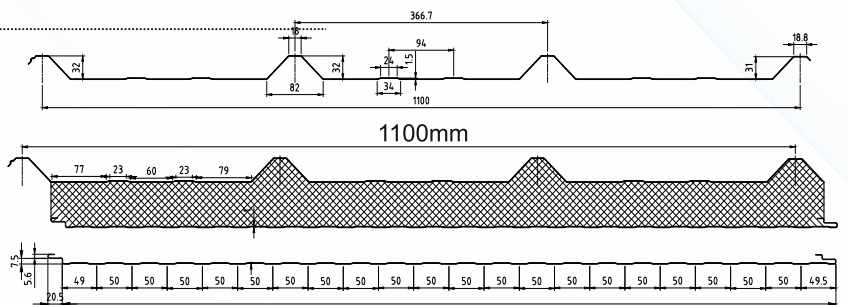
\* ALSO AVAILABLE IN WIDTH 900MM IF ORDER QUANTITY IS LARGE

## EPACK ROOF PANEL

The EPACK Roof Panel is a high-performance insulated roofing solution, offering exceptional thermal insulation, weather resistance, and structural stability. Ideal for industrial, commercial, and prefabricated buildings, this panel ensures durability, energy efficiency, and quick installation.

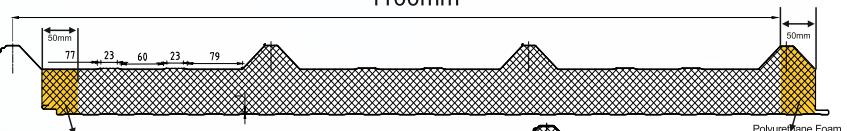


**PIR/PUR Panel**  
1100mm



Thickness: 30/50/60/80mm

**Rockwool Panel**  
1100mm



Thickness: 50/80mm



Types of Ribbing	Standard Rib, Micro Rib	
Types of Panels	PIR/PUR	Rockwool Panels
Thickness	30/50/60/80/100mm	50/80mm
Width*	1100mm	1100mm

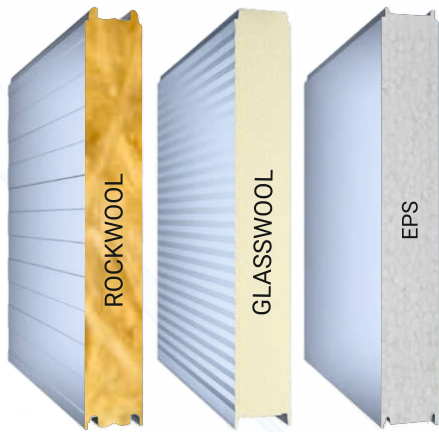
\* ALSO AVAILABLE IN WIDTH 950MM IF ORDER QUANTITY IS LARGE

## EPACK CAMLOCK WALL PANEL ▶

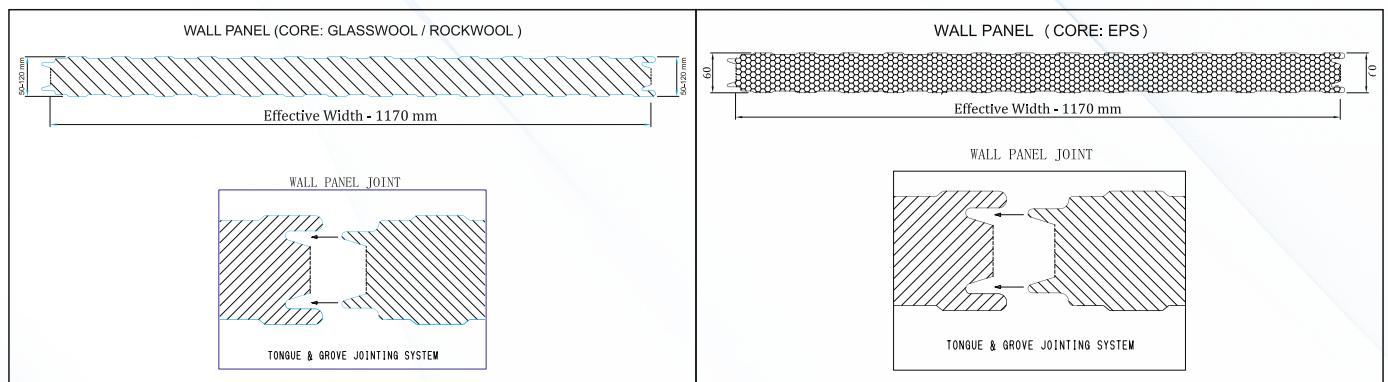


Types of Panels	PUF Panels
Thickness	40/50/60/80/100/120/150mm
Width	1200mm

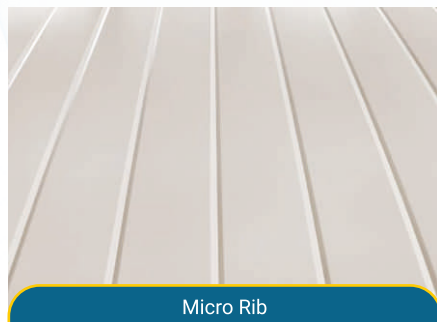
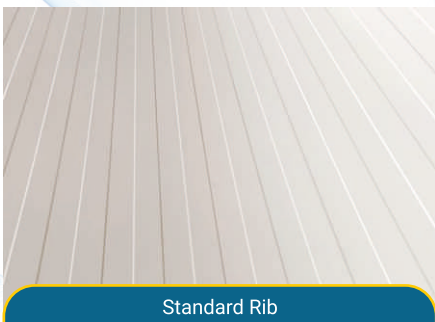
## EPACK OTHER PANELS ▶



Types of Panels	Thickness	Width
Discontinuous Puf Roof	30/40/50/60/80/100/120mm	993mm
Rockwool	50/60/80/100/120mm	1170mm
Glasswool	50/60/80/100mm	1170mm
EPS	40/50/60/80/100/120/150mm	1170mm

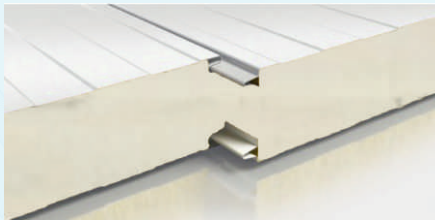


## TYPES OF RIBBING ▶



# EPACK SANDWICH PANELS TECHNICAL DATA SHEET

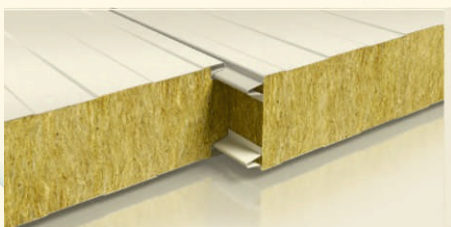
## PUR/PIR Panel



Thickness (MM)	PUR U-value (W/m <sup>2</sup> :K)	PIR U-value (W/m <sup>2</sup> :K)
40.0	0.5	0.46
50.0	0.41	0.37
60.0	0.34	0.32
80.0	0.26	0.24
100.0	0.21	0.19
120.0	0.18	0.16
150.0	0.14	0.13

Properties	Polyurethane Foam(PUR)	Polyisocyanurate Foam (PIR)
Insulation	CFC & HCFC FREE RIGID POLYURETHANE FOAM (PUF) AS PER IS 12436 STANDARD	CFC & HCFC FREE RIGID Polyisocyanurate FOAM (PIR) AS PER IS 12436 STANDARD
Foam Overall Density	40+/-2kgm <sup>3</sup>	40/42+/-2kgm <sup>3</sup>
Foam Thermal Conductivity (K-Value) at 10Å°C mean Temp	0.023 W/m K	0.023 W/m K
Compressive Strength @ 10% deformation	2.10kg/cm <sup>2</sup>	2.10kg/cm <sup>2</sup>
Tensile Strength	2.5 kg/cm <sup>2</sup>	2.5 kg/cm <sup>2</sup>
Flexural/ Bending Strength	3.0 Kg/cm <sup>2</sup>	3.0 Kg/cm <sup>2</sup>
Shear Strength	2.5 Kg/cm <sup>2</sup>	2.5 Kg/cm <sup>2</sup>
Closed Cell Contents	90-95%	90-95%
Horizontal Burning Characteristics	125 mm (Extent of Burn)= Max, Fire Retardant, Self Extinguishing Quality Foam	25 mm (Extent of Burn) - Max, Fire Rated
Water absorption	0.2% volume at 100% RH - Max	0.2% volume at 100% RH - Max
Water Vapour Permeability	0.12 ng/pasm at 88% RH & 38°C - Max	0.12 ng/pasm at 88% RH & 38°C - Max
Dimensional Stability at -25°C Cold Temp.	±2%	±2%
Dimensional Stability at +70°C Hot Temp.	±2%	±2%

## Rockwool Panel



Thickness (MM)	Rockwool U-value (W/m <sup>2</sup> :K)
40.0	0.8
50.0	0.66
60.0	0.56
80.0	0.43
100.0	0.35
120.0	0.29
150.0	0.24

Properties	Rockwool Panel
Insulation	Non-Combustible Rockwool Core with PPGS/PPGL Fascia
Overall Density	100+/-15 Kg/m <sup>3</sup>
Thermal Conductivity (K-Value) at 10Å°C mean Temp	0.04 W/m K
Compressive Strength @ 10% deformation	0.50985 Kg/cm <sup>2</sup>
Tensile Strength	0.3 Kg/cm <sup>2</sup> (Estimated)
Flexural/ Bending Strength	0.7647 Kg/cm <sup>2</sup>
Shear Strength	0.15 Kg/cm <sup>2</sup> (estimated)
Closed Cell Contents	0% (Open-Fiber Structure)
Horizontal Burning Characteristics	Highly Fire Resistant (Non-Combustible)
Water absorption	Less than 1%
Water Vapour Permeability	150 ng/pasm at 88% RH & 38°C (Estimated)
Dimensional Stability at -25°C Cold Temp.	±1%
Dimensional Stability at +70°C Hot Temp.	±1%

**EPACK  
PREFAB**  
RAPID CONSTRUCTION EXCEEDING EXPECTATIONS



**JK TYRE**  
**Hero**  
**ASK** ASK AUTOMOTIVE (P) LTD.  
**NARAYANI MOTORS PVT LTD**  
**MENETA** BALDOTA  
**HONDA**  
**MAJESTIC AUTO LIMITED**  
**D.R. Auto Industries**  
**VESUVIUS**  
**STAR CEMENT**  
**Dalmia** Bharat Limited  
**UltraTech**  
**YANKIT**  
**PRISM JOHNSON LIMITED**  
**JSW Cement**  
**CAMPA**  
**FCB**  
**PEPSICO**  
**Heritage**  
**M BIRMUSCLES**  
**Hakirams**  
**VOLTAS**  
**Inficold**  
**Sai Cold Storage**  
**TATA STEEL**  
**JINDAL STEEL & POWER**  
**JSL**  
**ELECTROSTEEL**  
**Nilkamal**  
**GENERAL GROUP**  
**VECTUS**  
**Prakas** Pipes & Fittings

**TCI** LEADERS IN LOGISTICS  
**Shankar** Freight Logistics (P) Ltd.  
**ESR**  
**AWSL** Aaradhya Warehousing Services Pvt. Ltd.  
**AVG** LOGISTICS  
**APML**  
**FWS**  
**DRS** WAREHOUSING  
**amazon**  
**Dhariwal** GROUP LIMITED  
**MAHIMA GROUP** Committed to Excellence  
**zepto**  
**SNOWMAN**  
**SAFEXPRESS**  
**TRANSAFE** TRANSFARE SERVICES LIMITED  
**NDR** NATIONAL ROAD DEVELOPMENT CORPORATION  
**ascendas FIRSTSPACE**  
**Flipkart**  
**all cargo** Logistics Pvt. Ltd.  
**OWM**  
**ECR GROUP**  
**VARUNA** Group  
**apg** trust of every point  
**SUMADHURA**  
**NEOLITE**  
**LEAR** CORPORATION  
**CALCOM CEMENTS**  
**ASHOK LEYLAND**  
**Flipkart**  
**WVKA MOTORS**  
**Valeo**  
**SANDHAR** Growth. Motivation. Better Life.  
**KHIVRAJ**  
**SPECIAL SPRINGS**  
**NEOLITE**  
**UDAAAN** Roofing And Structures Pvt. Ltd.  
**ARL**  
**DAAN**  
**DS GROUP**  
**SUGUNA FOODS**  
**HERITAGE**  
**CELLO**  
**RUIIL**  
**HERITAGE**  
**HERITAGE**

**ADITYA BIRLA** UTKAL ALUMINA  
**PCP**  
**AXIVA** Innovative Filtration Solution  
**KEC** KEC INTERNATIONAL LIMITED  
**बामर लॉरी एण्ड कं. लिमिटेड** (भारत सरकार का एक उद्यम)  
**Balmer Lawrie & Co. Ltd.** (A Government of India Enterprise)  
**LANXESS**  
**INDIA GLYCOLS LIMITED**  
**Pidilite**  
**Henkel**  
**JSK** CORPORATION PVT. LTD.  
**SBL SPECIALTY COATINGS**  
**UPL** UPL OpenAg  
**JAY PEE**  
**JAIPRAKASH ASSOCIATES LIMITED**  
**JVC PROJECTS (INDIA) LTD.** (A Corporate Group Enterprise)  
**GAYATRI**  
**SOBHA**  
**Triveni** ENGINEERING & INDUSTRIES LTD.  
**STERLING & WILSON**  
**PARKER CONSTRUCTION**  
**TVS**  
**ESSEL GROUP**  
**SONIC BIOCHEM**  
**HOLOSTIK**  
**TRIVENI**  
**STERLING & WILSON**  
**PARKER CONSTRUCTION**  
**TVS**  
**ESSEL GROUP**

**KEC** KEC INTERNATIONAL LIMITED  
**NBCC** A Navarna CPSE  
**NCC** TATA TATA PROJECTS  
**L&T Construction** Heavy Civil Infrastructure  
**IRON** Iron International Limited  
**ROHAN** ROLLOVERS INDIA PVT. LTD.  
**HuaKe Group** Clean Room  
**TOSHIBA**  
**HAYVELLS**  
**GE** GE T&D India Limited  
**wipro**  
**SVC**  
**HYOSUNG** T&D INDIA PVT. LTD.  
**HFCL**  
**BLUE STAR**  
**Sterlite Power**  
**Haier**  
**SIEMENS**  
**adani** Renewables  
**WAAREE** One with the Sun  
**vikram solar**  
**navitasolar**  
**ABB**  
**HUSK**  
**AVAADA**  
**ReNew**  
**ACE3**  
**FERRING** PHARMACEUTICAL RESEARCH  
**HETERO HEALTHCARE**  
**CIPRO INDIA** ENGINEERING CONTRACTORS  
**POLYMED**  
**Aster** Public School  
**NEVTON INFRA PVT. LTD.**  
**PDIL**  
**SAI**  
**Trishala** Trishala Group of Institutions  
**GOLD PLUS** FLCA - GLASS  
**AIS** Asahi India Glass Ltd.  
**Jaquar**  
**CENTURYPLY**

# PROJECTS ▶

## Warehouses



Clad-Rack Warehouse For Nilkamal



Perfect IT

## Data Centers



Ocean



CTRLS

## Factories



Avaada Solar Manufacturing Plant



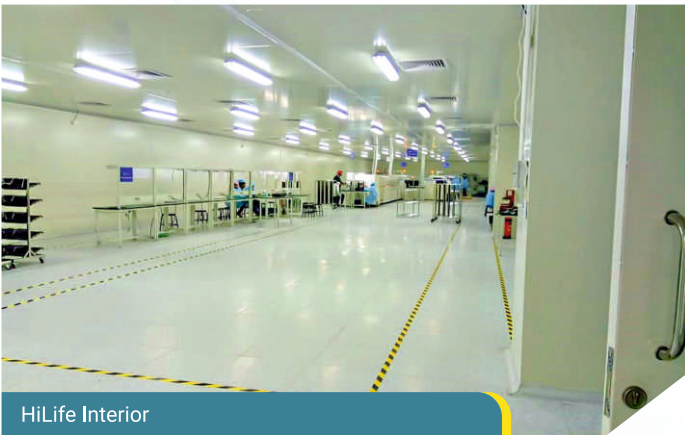
Technip Energies IOCL Refinery Building

# PROJECTS ▶

## Cold Storage



## Clean Rooms



## Industrial Enclosures



# PROJECTS ▶

## Institutional Buildings



## Infrastructures



## Office Buildings



# SAFETY RECOMMENDATIONS

## Safe Access Platform Requirements

Safe access platforms for manpower to roof and elevated locations are mandatory. All installation work must ensure full compliance with health and safety requirements.

- Ground conditions around the building perimeter must be adequately prepared and maintained throughout the installation process
- Exercise extreme caution when loading panel packs onto purlins, especially when roof pitch exceeds 8°
- Panels must be securely tied to the roof structure at rafter locations to prevent movement during installation
- Use only certified handling systems by qualified installers for lifting panels into position

## Use Safety PPE (Personal Protective Equipment)



Safety Helmet



Safety Goggles



Double Harness / Safety Belt



Reflective Jacket



Safety Gloves



PVC Sole Boots

## Pre-Installation Guidelines: Lifting Method and Preparation

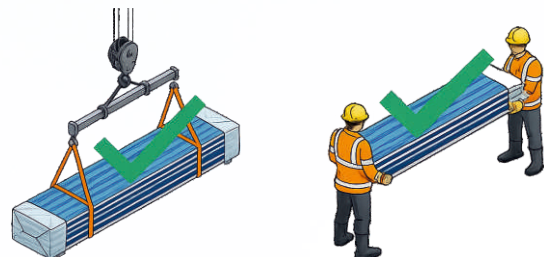
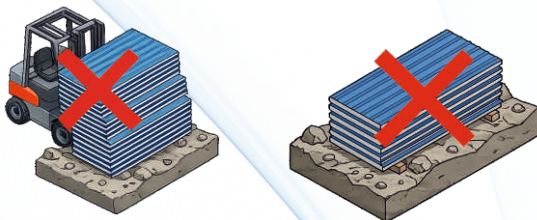
EPACK strongly recommends using mechanical handling systems for movement, lifting, and handling of all sandwich panels.

- Prior to installation, verify the configuration and dimensional accuracy of the supporting structure as per steel work alignment protocol
- Ensure the site is clean, dry, and structurally sound before beginning panel installation
- Measure the installation area accurately, including height, width, and all openings (windows, doors, vents)
- Plan the building layout using multiples of EPACK standard panel sizes to minimize material wastage and optimize efficiency
- Verify that all EPACK panels are the correct specification: thickness, core type (PUR/PIR/Rockwool), and width

## Storage and Handling Guidelines

- The stacking location must be smooth, firm, clean, dry, and well-ventilated
- Cover panels with waterproof material and stack properly with adequate support at regular intervals
- Lift panel bundles from ground to roof level using equipment of suitable capacity
- For bundles exceeding 6-meter length, use spreader bars along with nylon lifting belts
- Where space restrictions prevent crane or forklift use, manual lifting may be performed using ropes with protective softeners to prevent scratches
- Place polyurethane rigid foam (PUR) packing material under side laps to prevent edge bending during storage

Incorrect Practices - Avoid	Correct Practices - Follow
Excess lifting weight beyond equipment capacity	Lifting without traverse beam for packages under 6 meters
Lifting without traverse beam for packages under 6 meters	Use spreader bar with nylon belts for bundles over 6 meters
Lifting without traverse beam for packages under 6 meters	Wooden supports properly positioned with waterproof covering
Lifting without traverse beam for packages under 6 meters	Wooden supports properly positioned with waterproof covering



# EPACK ROOF PANEL INSTALLATION GUIDE

## Starting the Installation

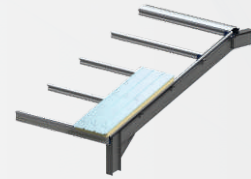
- **Starting Point:** Begin installation at the bottom edge of the roof (eave) and progress upwards toward the ridge
- **Panel Placement:** Position the first panel at the roof edge, ensuring it is straight and overhangs the eave by approximately 50mm (2 inches)
- **Panel Securing:** Use self-tapping screws to secure panels to the roof deck. Screws should be placed at the panel's high points and spaced according to purlin locations



## STEP-BY-STEP ROOF INSTALLATION

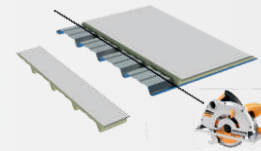
### Step 1 Ridge Flashing and First Panel

- Fix internal ridge flashing according to approved engineering drawings
- Position first panel (P1) carefully, ensuring proper alignment
- Secure with main fasteners as per approved drawings and specifications



### Step 2 Panel Cutting

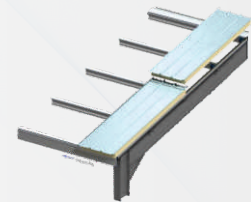
- If necessary, cut panels to fit using a carbide-tip circular saw
- Ensure cuts are straight through the bottom sheet and PUR/PIR foam core
- Important: Do not cut the roof external panel



### Step 3 Panel Overlapping and Sealing

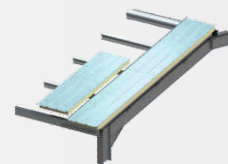
Each subsequent panel should overlap the previous panel by at least one ridge profile.

- Apply butyl tape sealant to side lap joint
- Apply three strips of butyl tape at end lap areas as required
- Lay second panel (P2) ensuring proper overlap
- Fix main fasteners as per engineering drawings
- Install panel end lap stitch screws at every valley location



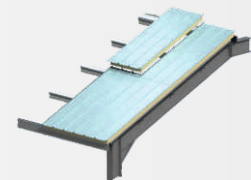
### Step 4 Third Panel Installation

- Position third panel (P3) with proper overlap
- Fix with main fasteners at eave location
- Install stitch fasteners as per design requirements



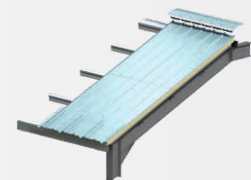
### Step 5 Continued Panel Installation

- Apply butyl tape sealant on panel P3 at end lap area
- Butyl sealant strips must be fixed at each end lap location as illustrated
- Lay fourth panel (P4) and secure with screws per approved drawings
- Add stitching screws along side lap at 500mm centers, commencing 50mm from end lap



### Step 6 Ridge Foam Filler Installation

- Install profiled foam filler positioned 80-100mm from the ridge flashing edge
- Apply butyl sealant to both top and bottom sides of foam filler
- Ensure complete sealing with non-setting butyl sealant



# EPACK ROOF PANEL INSTALLATION GUIDE ▶

## Step 7 Fastener Locations

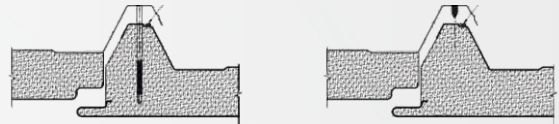
Typical fastener pattern for EPACK roof panels:

- Main fasteners: SDS 12-14L with bonded washer at 250mm on-center spacing
- Install at every purlin location along the high points of the panel profile
- Side lap stitch screws: SDS 12-14L at 500mm on-center spacing



## Step 8 Side Lapping Details

- Apply 3x6mm butyl tape along side lap joint before overlapping
- Install main fasteners (SDS 12-14L) at each purlin location
- Install stitch screws (SDS 12-14L) at 500mm spacing along side lap
- Follow the direction of lay as indicated in installation drawings



# EPACK WALL PANEL INSTALLATION GUIDE ▶

## Before Installing Wall Panels

- Ensure steelwork is properly lined, leveled, and within acceptable tolerance limits
- Visually inspect internal liner joints to ensure panels join fully without gaps
- Verify that joints are correctly aligned during installation to prevent uneven appearance at the drip edge

## STEP-BY-STEP WALL INSTALLATION

### Step 1 Drip Flashing and Corner Preparation

- Line, level, and fix drip flashing using low-profile fasteners
- Joints in drip flashing must incorporate butt straps sealed with two runs of non-setting gun-grade butyl sealant
- Install corner rake angle to open ends of sheeting rails to provide suitable bearing for panel fixing on return elevations



### Step 2 First Panel Installation

- Install internal corner flashing with low-profile fasteners
- Locate first panel (P1) ensuring correct positioning, lined and leveled
- Maintain minimum 5mm clearance from drip flashing at the back
- Install minimum one main fastener through the male joint at top and bottom locations
- Install minimum two additional fasteners at intermediate rail locations
- At corner positions, through-fix minimum two countersunk fasteners into female panel joint at each horizontal rail location



### Step 3 Second Panel Installation

- Position next panel (P2) ensuring the factory-applied weather seal is compressed and remains in correct position
- Ensure panel is properly lined and leveled, aligned with adjacent panel (P1)
- Install minimum one main fastener through the male joint at top and bottom locations
- Install minimum two additional fasteners at intermediate rail locations



## Step 4 Subsequent Panel Installation

- Continue locating panels P3, P4, and successive panels into position
- Ensure factory-applied weather seals are compressed at each joint
- Cut final panel (P5) as required using carbide-tip circular saw
- Ensure cut panel meets the outside edge of first panel (P1) precisely
- At corner positions, through-fix minimum two countersunk fasteners into cut edge at each horizontal rail location



## Step 5 External Corner Flashing

- Fix external corner flashing with low-profile stitching fasteners as per engineering drawings
- Overlap joints of corner flashings must be filled with 4mm diameter butyl tape sealant
- Install stitching screws at maximum 450mm centers along corner flashing length



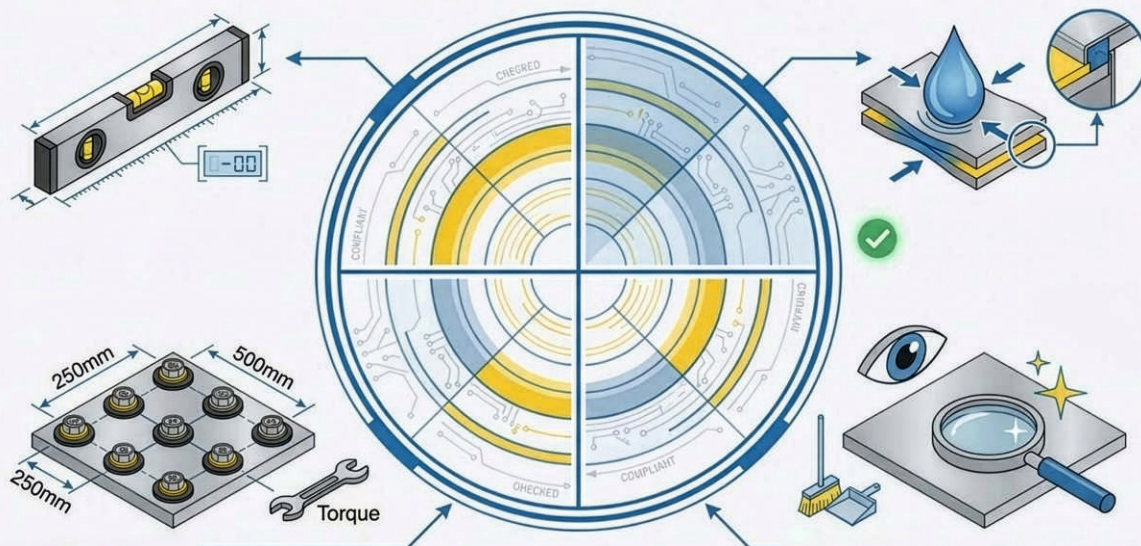
## INSTALLATION BEST PRACTICES ►

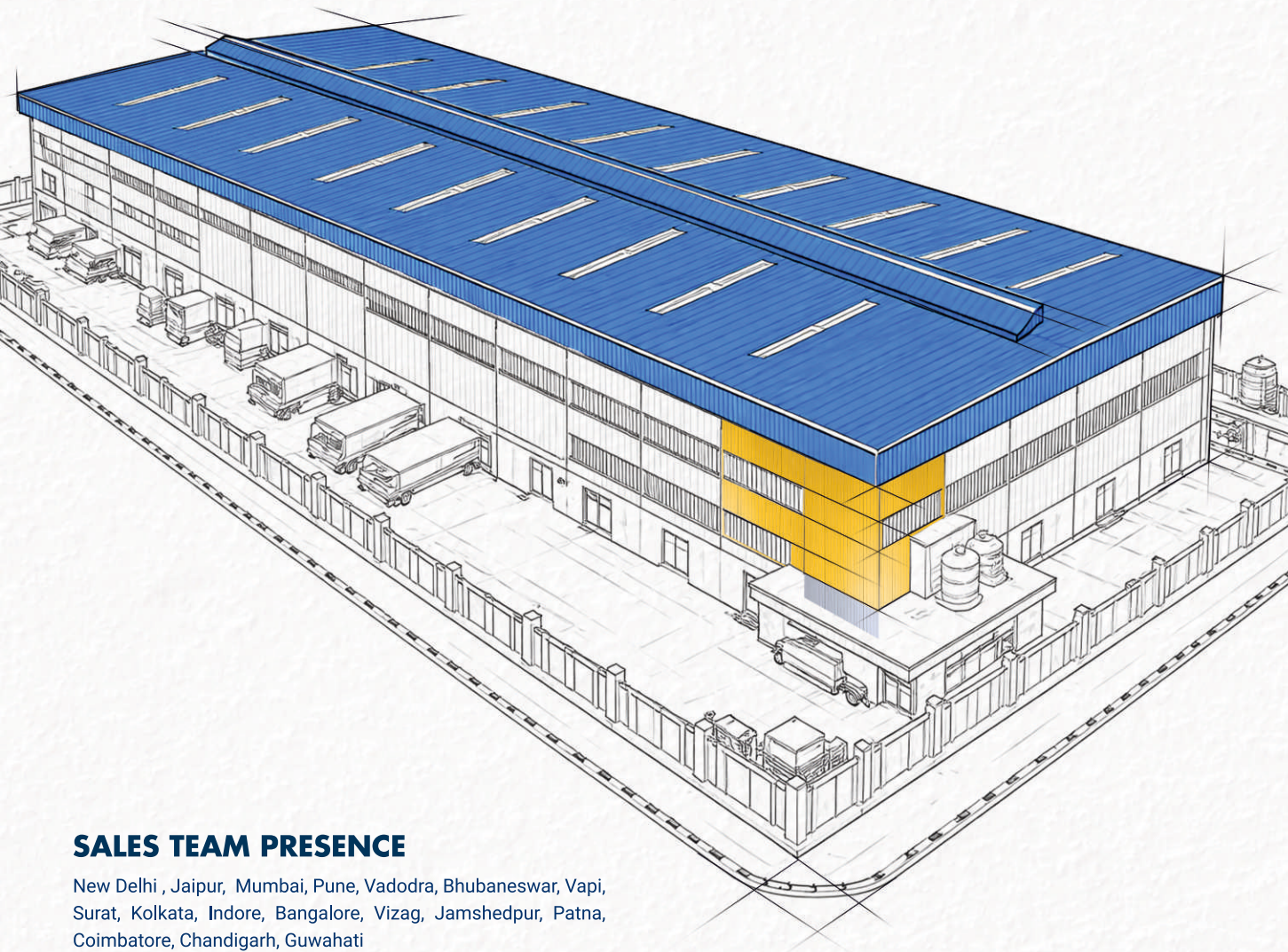
### Critical Installation Requirements

- Always follow approved engineering drawings and specifications
- Use only recommended fasteners: self-drilling screws with bonded washers
- Apply butyl tape sealant at all panel joints (side laps and end laps)
- Maintain proper fastener spacing: 250mm on-center for main fasteners, 500mm for stitch fasteners
- Ensure weather seals are properly compressed at all panel joints
- Verify alignment and levelness continuously during installation

### Quality Control Checkpoints

- Steelwork alignment and dimensional accuracy before panel installation
- Panel storage and handling conditions throughout project duration
- Proper application of sealants at all joints
- Fastener type, quantity, and spacing compliance
- Weather seal compression and joint integrity
- Final visual inspection for alignment and finish quality





## SALES TEAM PRESENCE

New Delhi , Jaipur, Mumbai, Pune, Vadodra, Bhubaneswar, Vapi, Surat, Kolkata, Indore, Bangalore, Vizag, Jamshedpur, Patna, Coimbatore, Chandigarh, Guwahati

## BRANCH OFFICES

- HYDERABAD:-101 A, Trendz Sapphire Building, Hitech City Hyderabad-500081 Telangana, INDIA
- CHENNAI:-152, 2nd Floor, Guleacha Tower, Somasundara Bharathi Nagar, Chennai Tamilnadu-600026, INDIA.
- AHMEDABAD:- 1013, One World West, Sardar Patel Ring Road, Bopal, Ahmedabad Gujarat-380058, INDIA

## MANUFACTURING PLANTS / OFFICES

- UNIT-1&2:-B 13 & 14 Ecotech-1st Extension Greater Noida-201306 Uttar Pradesh, INDIA
- UNIT-3:-SP5/128, Ghiloth Industrial Area, Ghiloth-301705 Rajasthan-INDIA
- UNIT-4:- Plot No-5, APIIC Industrial Park, Mambattu (Near Sricity), Tada Mandal Tirupati District-524401 Andhra Pradesh, INDIA
- UNIT-5:- Plot No- 6, APIIC Industrial Park, Mambattu (Near Sricity), Tada Mandal Tirupati District-524401 Andhra Pradesh, INDIA



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+91-81 304 44466



enquiry@epack.in



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