EPACK

BUILD-QUICK™
Prefab Solutions

EXCELLENCE THROUGH INNOVATIONS

Global Leader

PRE-FABRICATED STRUCTURES

COMPANY PROFILE

E-Pack Polymers Private Limited is one of the leading and most respected company in insulation & packaging sector in India specializing in:

* **PUF/EPS/Rockwool Sandwich Panels**
* **Pre Engineered Building Solutions**
* **Custom Molded Protective EPS Packaging**

Complete Design, engineering, prototype, sampling, part production and just-in-time delivery, all combine to provide total packaging and insulation solution. Due to our customer centric approach, today we are a company with an annual group turnover exceeding USD 150 million. Some of the other companies of the group are:

* **East India Technologies (P) Ltd, Greater Noida (U.P.) & Bangalore (EPS Packaging)**
* **Ennov Infra Solution (P) Ltd, Greater Noida (U.P.) (Chemical earthing & Lightening Arresters)**
* **E-Durables, Dehradun (Uttrakhand) (Complete assembly of AC, Microwave, DVD player, Induction Cook Top etc.)**
* **E-Vision, Dehradun (Uttrakhand) (Sheet Metal, Plastic Moldings, Copper Tubing etc.)**

OUR VISION

To be a market leader in protective foam packaging (PFP), energy efficient insulating materials (EEIM) and efficient building solutions (EBS)

MISSION STATEMENT

* **To nurture lasting customer relationship by anticipating needs and delivering beyond expectations.**
* **To continuously improve cost stewardship in the value chain.**
* **To analyze customer needs and come up with innovative products.**
* **To prepare and groom the next generation of young thinkers.**
* **To market value added branded products in the domestic and global markets.**
* **To "Grow with the Best" customers, suppliers, financial institutions, employees & other stake holders.**

ISO - 9001 ISO - 14001

OUR INFRASTRUCTURE

We owe our success to our strong infrastructural base. All manufacturing activities are carried under one roof, right from Cutting, Shearing, Bending, Foaming and Finishing to actual shipment. Our workforce consists of numerous skilled engineers technician, management personnel and other technical and non-technical workers who give us an added edge over others. In addition our factory is well equipped with all latest technologies and sophisticated machines & equipment.

PU PRESS MACHINE

MANUFACTURING FACILITIES

The E-pack plant is equipped with the most sophisticated manufacturing equipment /machines:

- Automatic decoiling, cutting, bending & roll forming machines
- Automatic shearing & bending machines
- Automatic high pressure PU foaming machine (Make: Cannon)
- Fully automatic PU press machines
- Fully automatic PU corner panel press machine
- Cold formed section machine (C & Z Purlins)
- Fully automatic EPS/Rockwool continuous sandwich panel machine
- Door & Window Making Facilities
- Fabrication Shop
- Light Guage Steel Framing Machine
- Other equipment & utilities

HIGH PRESSURE PU FOAMING MACHINE

EPS PANEL MACHINE

COLD FORMED SECTION MACHINE

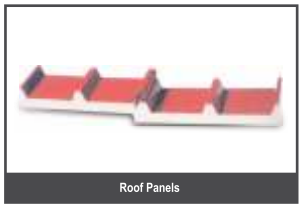
FABRICATION SHOP

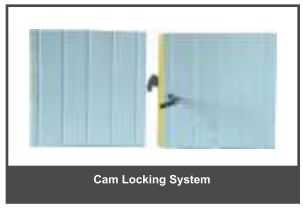
FACTORY

EPACK SANDWICH PANEL

E-pack sandwich-panels are high quality products produced with profiled Pre-Painted Zinc Coated Galvalume Coated Steel , Stainless Steel Sheets and combined with Polyrethane / EPS / Acoustic core material as the insulation material.

With a wide range of different colors cut-to-length in our factory and supplied ready-to-install our modern building products will take a good share in a highly economic weather-independent and fast modular building process.


Roof Panels


Cam Locking System

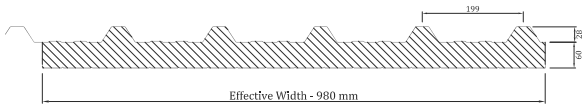

Tongue & Groove

PUF PANEL SPECIFICATION

Product	PUR/PUF PANEL							
Width - Wall	1200 mm (STANDARD) / CUSTOMIZED							
Width - Roof	980mm							
Core Thickness (mm)	30	40	50	60	80	100	120	150
U Value (W/m° K)	0.75	0.53	0.43	0.33	0.28	0.22	0.18	0.15
R Value (Btu/hr/ft²/°F)	9.8	11	13	16	20	26	30	38
Facia Options	PPGS/PPGL/Alu/Tarfelt/Cement Fiber Board/SS							
Density (Kg/m³)	40±2 Kg/m³							
Thermal Conductivity at 10°C Mean Temperature (W/m³ K)	0.023							
Compressive Strenght at 10% Deformation (Kg/cm²)	2.1							
Bending Strength (Kg/cm²)	4							
Tensile Strength (Kg/cm²)	3.7							
Adhesive Strength (Kg/cm²) - Foam to Steel	2.9							
Water Absorption (Volume %)	0.2% at 100% RH							
Closed Cell Content (%)	92-95%							
Vapour Permeability at 90% RH & 38°C (Gms/Hr. sqm)	0.12							
Fire class	Fire Resistant							

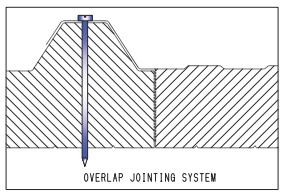
* E-Pack Panels comply with all relevant IS codes.

ROOF PANEL (CORE: PUF)

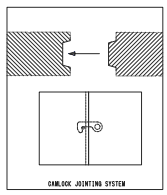


WALL PANEL (CORE: PUF)

ROOF PANEL JOINT



WALL PANEL JOINT



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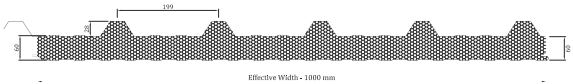
ROCKWOOL PANEL SPECIFICATIONS

Product	Rockwool Panel				
Width - Wall	1170 mm				
Width - Roof	1000 mm				
Core Thickness (mm)	50	60	80	100	120
U Value (W/m²K)	0.068	0.33	0.28	0.22	0.18
R Value (Btu/hr/ft²/°F)	13	16	20	26	30
Facia Options	PPGS / PPGL				
Density (Kg/m³)	100-120Kg/m³				
Thermal Conductivity at 10°C Mean Temperature (W/m°K)	0.04				
Compressive Strength at 10% Deformation (Kg/cm²)	0.50985				
Bending Strength (Kg/cm²)	0.7647				
Melting Point	>1000 deg C				
Water Absorption (Volume %)	Less than 1%				
Sound Reduction (db)	28-30				
Fire class	Non - Combustible				

EPS PANEL SPECIFICATIONS

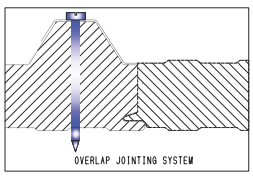
Product	EPS Panels						
Width - Wall	1170mm						
Width - Roof	1000mm						
Core Thickness (mm)	40	50	60	80	100	120	150
U Value (W/m°K)	0.87	0.71	0.6	0.46	0.37	0.31	0.25
R Value (Btu/hr/ft²/°F)	7	8	9	12	15	18	23
Facia Options	PPGS / PPGL						
Density (Kg/m³)	16-18Kg/m³ (STANDARD)/20-24 Kg/m³						
Thermal Conductivity at 10°C Mean Temperature (W/m°K)	0.032						
Compressive Strenght at 10% Deformation (Kg/cm²)	1.95						
Bending Strength (Kg/cm²)	2.8						
Tensile Strength (Kg/cm²)	1.53 - 2.34						
Adhesive Strength (Kg/cm²) - Foam to Steel	2.4						
Water Absorption (Volume %)	3%						
Closed Cell Content (%)	90-95%						
Varour Permeability at 90% RH & 38°C (Gms/Hr. sqm)	25 - 40						
Fire class	Self Extinguishing						

ROOF PANEL (CORE: EPS)

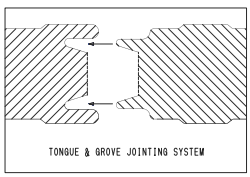


WALL PANEL (CORE: EPS)

ROOF PANEL JOINT



WALL PANEL JOINT



PRODUCT PORTFOLIO

Application of E-Pack Sandwich Panels:

- **Prefabricated structures**
- **Liftable Cabins**
- **Site offices**
- **Labour Hutments**
- **Double storey structure**
- **Cold Storages/Cold Rooms**
- **Clean Rooms**
- **Roofing Sheets**
- **Solar inverter room**
- **Solar Mounting Structures & Accessories**
- **Main control room**
- **Control Pulpits**
- **Modular Toilet**
- **Prefab Villas / Cottages**
- **Sample Flat / Marketing Office**
- **Security/Guard huts**
- **Prefab Godowns**
- **Prefab Canteen**
- **Prefab Schools & hospitals**
- **Military camps**
- **BTS shelters (Telecom)**
- **Total Customized Structures**

ISO - 9001
ISO - 14001

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ADVANTAGE E-PACK PREFABRICATED STRUCTURE

Feature	Conventional Buildings	E-pack Pre-Engineered Structures / Buildings
Design	Substantial engineering and detailing work is required on every project, resulting in time overruns	Highly sophisticated software design package is used for designing which reduces design time significantly and eliminates errors
Delivery	Average 20 to26 weeks	Average to 6 to 8 weeks
Foundations	Heavy foundations	Simple design, light foundations
Erection Simplicity	Connections are complicated and differ from project to project, resulting in long learning curves of erection teams	Standard components connections, short learning curves
Erection Time	Long, highly variable and unpredictable	Fast and standard components connections
Seismic	Rigid heavy weight structures do not perform well in seismic zones	Low-weight flexible frames offer higher resistance to seismic forces

Feature	Conventional Buildings	E-pack Pre-Engineered Structured / Buildings
Overall Price	High	Cost efficient
Architecture	Special architectural design and features must be developed for each project, which often require research and thus resulting in much higher costs	Outstanding architectural design can be achieved at low cost using standard architectural features and interface details.
Future Expansion	Future expansion would be more difficult and more likely, costlier	Future expansion is simple, easy and cost effective
Safety and Responsibility	Multiple responsibilities can result in questions of who is responsible when components do not fit properly	Single source of supply results in total responsibility

LIFTABLE BUNK HOUSE

20 feet

40 feet

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SITE OFFICE

PRODUCTS

CLEAN ROOM

PRE-ENGINEERED BUILDING

COLD ROOM

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LIVING SHELTER

ROW HOUSING

G+1

G+2

LIGHT GUAGE STEEL STRUCTURE

PRE-FAB VILLAS / COTTAGE

MARKETING OFFICE

ROOF TOP STRUCTURE

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SOLAR CONTROL/INVERTER ROOMS

SOLAR INVERTER ROOM

SOLAR CONTROL ROOM

SOLAR PANEL MOUNTING STRUCTURES

CONTROL PULPITS AND CONTROL ROOMS

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ACOUSTIC ENCLOSURE

PRODUCTS

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INTERNAL VIEW








E-PACK INTEGRATED DOORS

E-pack has carved a niche in the domain of manufacturing premium insulated doors using quality polyurethane foam as core insulation for various industrial & commercial applications.

Type of Doors

- **PUF Insulated Doors:** Single/Double leaf Door made from PUF SANDWICH PANELS with PPGI frame. Door will be provided with high quality hinges, handle, etc. The door will be fixed with the wall panels with adequately designed screws and other hardware's. Sizes of the doors will be standard or customized as per customer's requirement.

- **Aluminum Doors:** Single/Double leaf Door made from half Glass & half laminated board with Aluminum frame. Door will be provided with high quality hinges, handle, etc. The door will be fixed with the wall panels with adequately designed screws and other hardware's. Sizes of the doors will be standard or customized as per customer's requirement.

- **Cold Room Doors:** Single/Double leaf hinged overlap door made from 60/80/100/120/150MM thick polyurethane foam as core insulation having 40±2kg/m^3 density with three sides PVC frame directly mounted to wall panels having four side heavy duty EPDM gaskets with adequately designed European hinges & locks.

- **Clean Room Doors:** Single/Double leaf made from Polyurethane foam / Rock wool / Honeycomb as core insulation with view glass & adequately designed hinges, Handle, Lock, Door Closer & Kick Plate.

E-PACK INTEGRATED WINDOWS

E-pack has carved a niche in the domain of manufacturing premium quality aluminum sliding & fixed windows for various industrial & commercial applications.

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MODERN CONCEPTS OF PREFABRICATED STRUCTURES

RURAL CLASS ROOM

MODULAR SCHOOL BUILDING

MODULAR HEALTH CENTRE

MODULAR HOSPITAL BUILDING

OPEN AIR MESS

MODULAR HOSTEL BUILDING

NATURAL DISASTERS

DISASTER RELIEF CAMPS

THINK PREFAB
THINK EPACK

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CII
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ISO:14001
Certified Company
FICCI