



**MANUFACTURER OF
PRE-ENGINEERED BUILDINGS**

AEW FABRICATORS PVT LTD

Established in April 2007 by Mr. Yogendra Agarwal, AEW Fabricators Pvt. Ltd. is a multi-disciplinary engineering and construction company committed to delivering high-quality, cost-effective and reliable solutions in accordance with international standards.

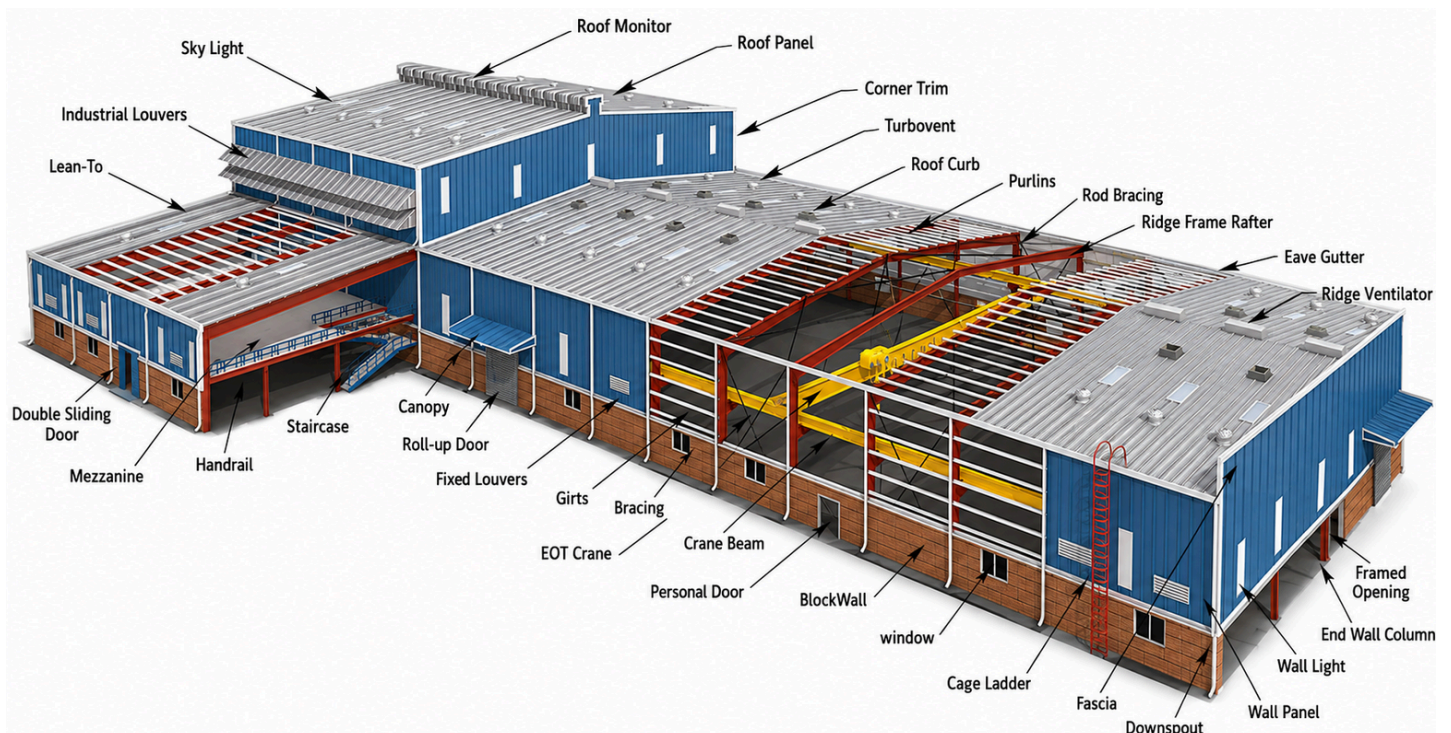
Our expertise includes PEB and structural steel fabrication, erection, construction, cost management, quality surveying and value engineering. We undertake projects across industrial, commercial, residential, office, hospital and infrastructure sectors.

CIN: U28999HP2018PTCO06946.

SERVICE

We provide comprehensive construction and commissioning services for projects in the Dairy, Beverage, Food Processing and Pharmaceutical industries, delivered on a contract or turnkey basis as per specific client requirements.

CONCEPT OF PRE-ENGINEERED BUILDING



DESIGN CODES & STANDARDS



PRE-ENGINEERED BUILDING

A Pre-Engineered Building (PEB) is a modern steel construction system comprising primary frames, secondary members and roofing/wall sheeting, engineered for optimum strength, durability and economy.

PEBs use custom-designed built-up steel sections, offering greater flexibility and faster construction compared to conventional structures. They can be equipped with mezzanine floors, canopies, fascia, trusses and crane systems as required.

AEW Fabricators Pvt. Ltd. provides complete PEB engineering, fabrication and erection services, ensuring quality control and efficient project execution from design to completion.

At AEW Fabricators Pvt. Ltd., we are committed to delivering innovative, efficient and high-quality construction solutions tailored to meet the unique requirements of every client. Our experienced team combines technical expertise, modern engineering practices and creative design approaches to develop solutions that are both functional and cost-effective.

We believe that every project presents an opportunity to introduce new ideas, improved techniques and innovative construction concepts. Our team remains open to new challenges and continuously works towards achieving the desired results while maintaining the highest standards of quality, safety, durability and reliability.

With a strong focus on customer requirements and project objectives, we strive to deliver solutions that exceed expectations. Client satisfaction, quality workmanship and timely execution are the key pillars of our success.

Unique Construction Design

Our team is committed to delivering innovative, high-quality construction solutions tailored to each client's requirements. We welcome new ideas and challenges to achieve the desired results. Client satisfaction is the foundation of our success.

We offer total turnkey steel construction solutions ranging from detailing to on site erection along with maintenance and after sales services, all under one roof.

A Pre-Engineered Building (PEB) primarily consists of three major systems:

- **Structural System** – Primary load-bearing frames, columns, rafters and bracing systems.
- **Secondary System** – Purlins, girts and other supporting members.
- **Cladding & Accessories** – Roof and wall sheeting, flashings, gutters, downpipes, ridge covers, trims and other accessories.

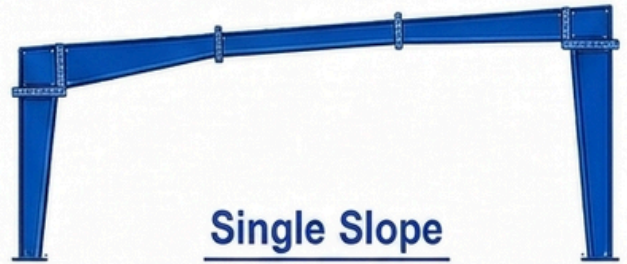
PRIMARY FRAMING SYSTEMS

PEB primary framing systems are custom-engineered to suit the structural, functional and architectural requirements of each project. Standard, symmetrical, asymmetrical and multi-span configurations can be designed to provide optimum strength, economy and flexibility.



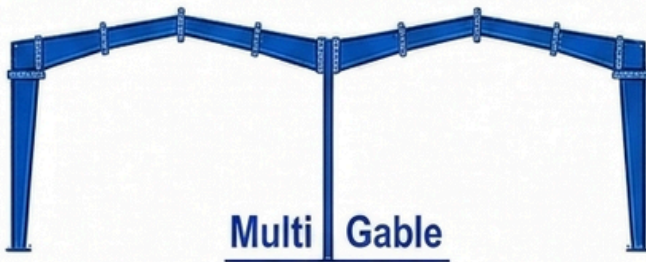
Clear Span

Most Economical Width Range 6 to 60 M



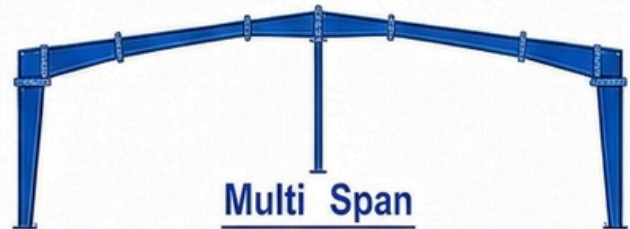
Single Slope

Most Economical Width Range 6 to 18 M



Multi Gable

Most Economical Width Range 24 to 60 M



Multi Span

(with 1 Intermediate Column)

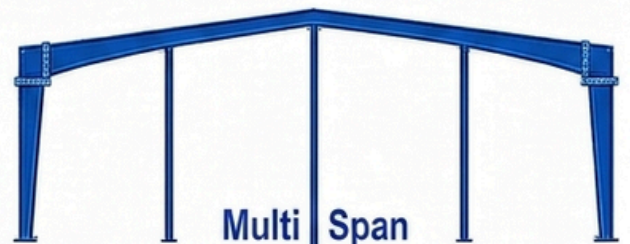
Most Economical Width Range 24 to 48 M



Multi-Span

(with 2 Intermediate Column)

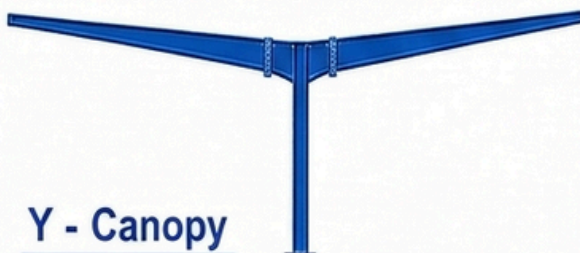
Most Economical Width Range 36 to 72 M



Multi Span

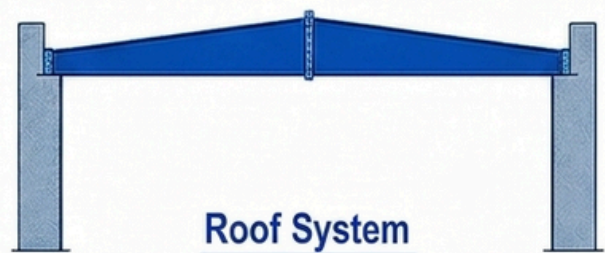
(with 3 Intermediate Column)

Most Economical Width Range 48 to 96 M



Y - Canopy

Most Economical Width Range 6 to 12 M



Roof System

Most Economical Width Range 6 to 18 M

SECONDARY FRAMING SYSTEMS

Secondary framing members support the roof and wall cladding and transfer the applied loads to the primary structural frame. The main components include roof purlins, wall girts and eave struts, providing structural stability and efficient load distribution.

Roof Purlin

Roof purlins are cold-formed Z-sections, typically 200–250 mm deep and manufactured from 1.6–3.0 mm thick steel. They support the roof sheeting and transfer loads to the primary rafters.

Purlins are connected to the top flange of the rafters using bolted clips, with the purlin web bolted to the clips. At frame locations, the purlins are overlapped to provide continuous beam action, improving structural efficiency and stability.



Wall Girts

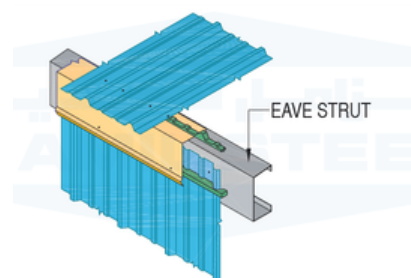
Wall girts are cold-formed Z-sections, typically 200–250 mm deep and manufactured from 1.6–3.0 mm thick steel. They support the wall cladding and transfer wind loads to the primary columns.

Girts are connected to the outer flange of the side-wall columns using bolted clips, with the girt web bolted to the clips. Their ends are overlapped at column locations to provide continuous beam action, improving structural efficiency and stability.



Eave Struts

Eave struts are cold-formed C-sections, typically 200–250 mm deep and 2–3 mm thick. They are connected to the outer flange of sidewall columns using bolted clips, with the eave strut flange bolted to the clips.



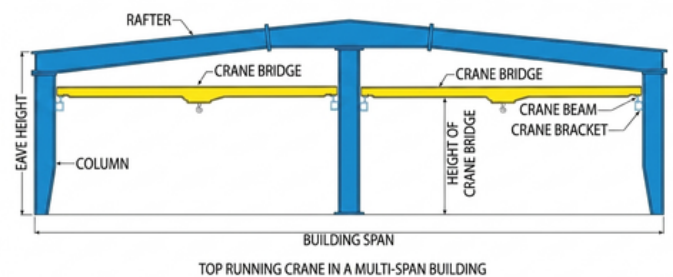
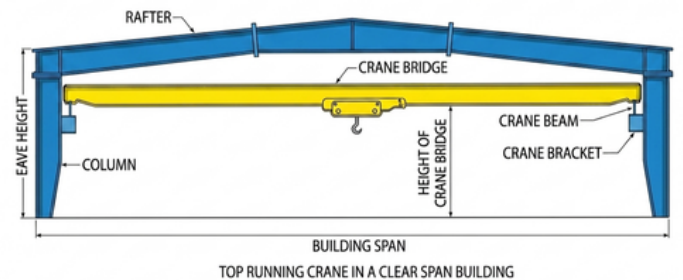
CRANES & MEZZANINES

Secondary framing members support the roof and wall cladding and transfer the applied loads to the primary structural frame. The main components include roof purlins, wall girts and eave struts, providing structural stability and efficient load distribution.

Crane Systems

AEW Fabricators' PEB systems can be designed to accommodate various types of crane systems, including EOT cranes, monorail cranes and other load-handling systems such as conveyors, for both clear-span and multi-span buildings.

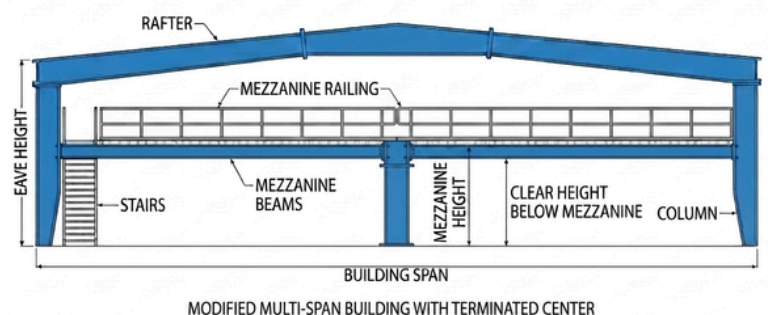
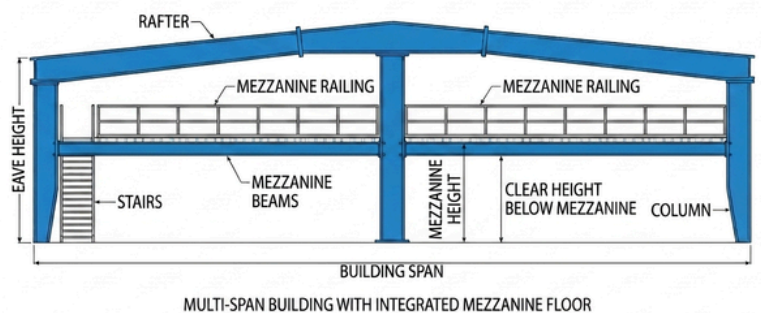
Where cranes are integrated into the PEB structure, AEW Fabricators' scope typically includes the crane brackets and crane runway beams required to support the crane system. Complete crane details and loading information are required for the structural design, engineering, and estimation of buildings incorporating crane systems.



Mezzanine Floors

Intermediate mezzanine floors can be incorporated into PEB buildings over full or partial areas, depending on the required usage and design loading eg. offices, storage areas, production spaces, and utility platforms. Mezzanine floors generally consist of chequered plates or galvanized decking sheets supported by secondary joists connected to the main mezzanine beams. The main beams typically span across the width of the building, while the joists run along the length of the building to provide an efficient and stable floor system.

Where required, a reinforced concrete slab can be cast over the galvanized decking sheet. The concrete slab and related civil works are not included in AEW Fabricators' supply scope.



SINGLE & MULTI-STOREY PEB MEZZANINE

AEW Fabricators Pvt. Ltd. provides single and multi-storey PEB mezzanine systems designed to maximize vertical space and create additional usable floor areas in industrial and commercial buildings.

Features:

- Custom-designed for required loads and layouts
- Single or multiple floor levels
- Fast fabrication and erection
- Chequered plate, deck, or composite flooring options
- Suitable for warehouses, factories, offices, storage, and production areas
- Strong, durable, and easily expandable



ROOF AND WALL CLADDING SHEET

PEB roofing and wall cladding generally use two systems: Through-Fastened and Standing Seam. Through-fastened panels are fixed directly to the structure using self-drilling fasteners, while standing seam panels are secured with concealed clips that allow thermal movement without puncturing the sheets.

Standing seam systems provide better weather resistance, reduced corrosion risk, and low maintenance, and can be manufactured in long lengths at site for faster installation. Metal cladding is lightweight, durable, economical, and quick to install, while suitable insulation can provide effective thermal and acoustic protection.

Regular inspection and maintenance should include removing debris, checking fasteners, gutters, roof penetrations and accessories, and promptly repairing any corrosion or leakage.

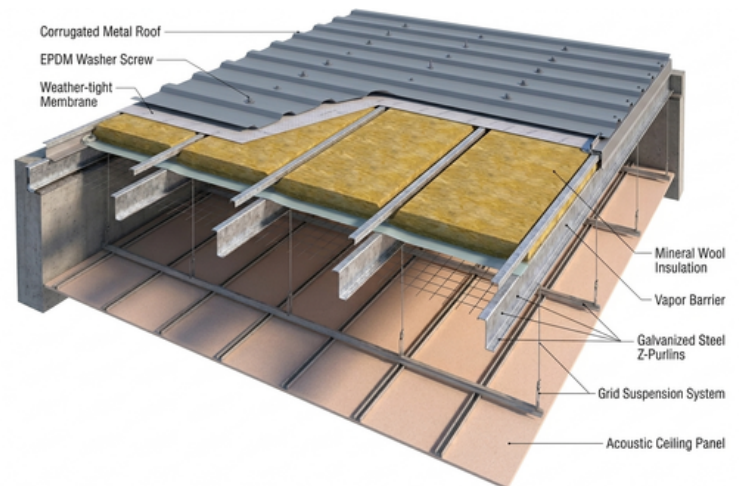


Insulated Roofing & Wall Cladding

AEW Fabricator's insulated roofing and wall cladding systems are individually designed for each project and tailored to meet the specific requirements of the customer. Single-skin and double-skin insulated systems provide high-performance solutions for applications requiring improved thermal insulation, energy efficiency, and indoor comfort. Their cost-effective design makes them suitable for a wide range of industrial, commercial, and specialized buildings.

Single-Skin Insulation

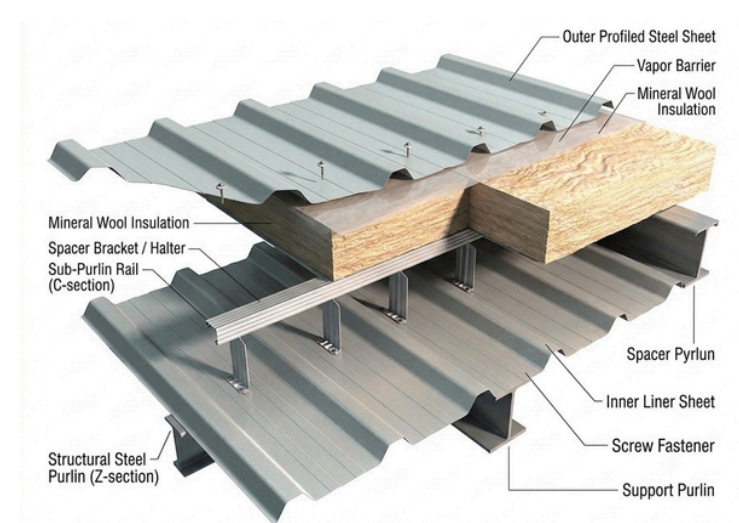
Single-skin insulation is installed beneath the external metal sheeting as under-deck insulation. The insulation is rolled over the purlins or girts, and the outer sheets are fixed to the secondary framing through the insulation. From inside the building, only the vapour barrier is visible. This system provides an economical solution for improving thermal performance while maintaining a simple construction arrangement.



Double-Skin Insulation

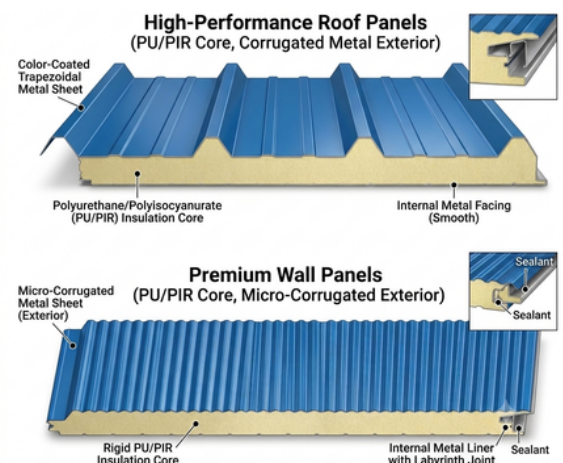
Double-skin insulation consists of an internal liner panel fixed directly to the secondary framing. Sub-girts are installed through spacer blocks and the liner panels and are connected to the purlins or girts. Glasswool roll insulation or Rockwool slabs are placed over the sub-girts, after which the external roof or wall panels are fixed through the insulation to the sub-girts.

For wall cladding, the internal liner is fixed to the inside face of the girts, while the external sheet is installed on the outside with insulation positioned between the two layers. This arrangement provides enhanced thermal insulation, improved internal appearance, and better overall building performance.



PUF Panels

PUF (Polyurethane Foam) panels are lightweight, durable, and energy-efficient insulated sandwich panels suitable for a wide range of applications. They are commonly used in commercial and industrial buildings, warehouses, cold storage facilities, clean rooms, telecom shelters, labour hutments, ripening chambers, porta cabins, security cabins, site offices, prefab toilets, and other prefabricated structures.



BUILDING ACCESSORIES

TURBOVENTS



BUBBLE INSULATION



LOUVERS



SKYLIGHT SHEET



ROOF MONITOR



STANDARD FLASHINGS AND TRIMS



Applications of Pre-Engineered Steel Buildings (PEB)

- Living Shelters
- Factories and Manufacturing Plants
- Warehouses and Storage Facilities
- Sports Halls and Indoor Arenas
- Aircraft Hangars
- Supermarkets and Retail Buildings
- Workshops and Maintenance Facilities
- Distribution Centers and Logistics Hubs
- Commercial Showrooms
- Labour Camps and Accommodation Facilities
- Petrol Pumps Service Buildings
- Schools and Educational Facilities
- Community Centers
- Cold Stores and Temperature-Controlled Facilities
- Equipment Housings and Shelters
- Telecommunication Shelters
- Restaurants and Food Courts
- Railway Stations
- Almost any low-rise building requiring a durable, economical and quickly constructed structure.



OUR PRESTIGIOUS CLIENTS



HETERO

Kisan Fodder Mills Pvt Ltd



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