Arise PEB
CONSTRUCTION

www.arisepeb.in

A Leading Pre-Engineered Building Manufacturer In Odisha



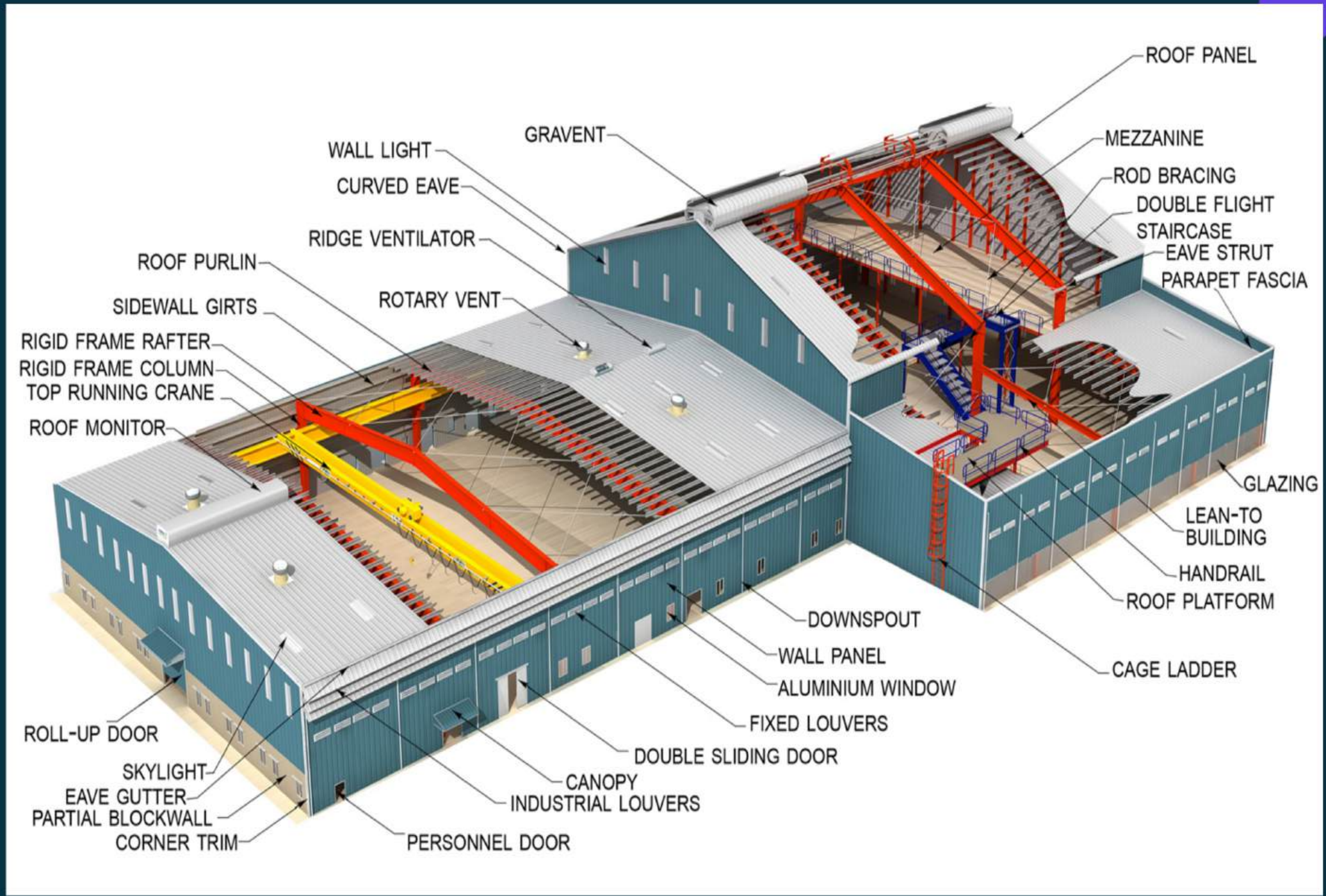






Industrial | **Commercial** | **Residential**

arisepeb | arisepeb | arisepeb | arisepeb


ROOF PANEL
GRAVENT
MEZZANINE
WALL LIGHT
CURVED EAVE
ROD BRACING
DOUBLE FLIGHT STAIRCASE
RIDGE VENTILATOR
EAVE STRUT
ROOF PURLIN
PARAPET FASCIA
ROTARY VENT
SIDEWALL GIRTS
RIGID FRAME RAFTER
RIGID FRAME COLUMN
TOP RUNNING CRANE
ROOF MONITOR
GLAZING
LEAN-TO BUILDING
HANDRAIL
ROOF PLATFORM
DOWNSPOUT
WALL PANEL
CAGE LADDER
ALUMINIUM WINDOW
FIXED LOUVERS
ROLL-UP DOOR
DOUBLE SLIDING DOOR
SKYLIGHT
CANOPY
EAVE GUTTER
INDUSTRIAL LOUVERS
PARTIAL BLOCKWALL
CORNER TRIM
PERSONNEL DOOR

Arise PEB CONSTRUCTION

Arise PEB Construction is a trusted Pre-Engineered Building (PEB) manufacturer based in Odisha. We are committed to timely project completion, efficient delivery, and complete client satisfaction.

With extensive industry expertise, state-of-the-art manufacturing facilities, and ample capacity to handle projects of any scale, we deliver prefabricated steel structures tailored to meet specific customer requirements. Our solutions offer flexibility in erection and fast delivery—even under the most challenging conditions.

Our goal is to provide a one-stop solution for all construction needs. Our diverse product range includes staircases, canopies, cabins, mezzanine floors, and motorized rolling shutters. We also take on turnkey projects and offer civil work services at highly competitive rates.

Our PEB structures are designed with side cladding, large spans, multi-span configurations, and lean-to roofs as required. We can also integrate EOT cranes into the structure based on client specifications. Additionally, we offer a variety of accessories such as roof vents, louvers, skylights, and insulation solutions.

To suit diverse requirements and budgets, clients can choose from a wide selection of sheet materials, including pre-coated, GI, fibre, and AC sheets.

Why Choose Us?

Customer First : We believe in building long-term relationships by prioritizing our clients' needs and delivering on every promise.

Business Success : We are committed to continuous growth and improvement, creating lasting value for our stakeholders and our organization.

Result-driven : We focus on outcomes, ensuring timely delivery of high-quality products without compromise.

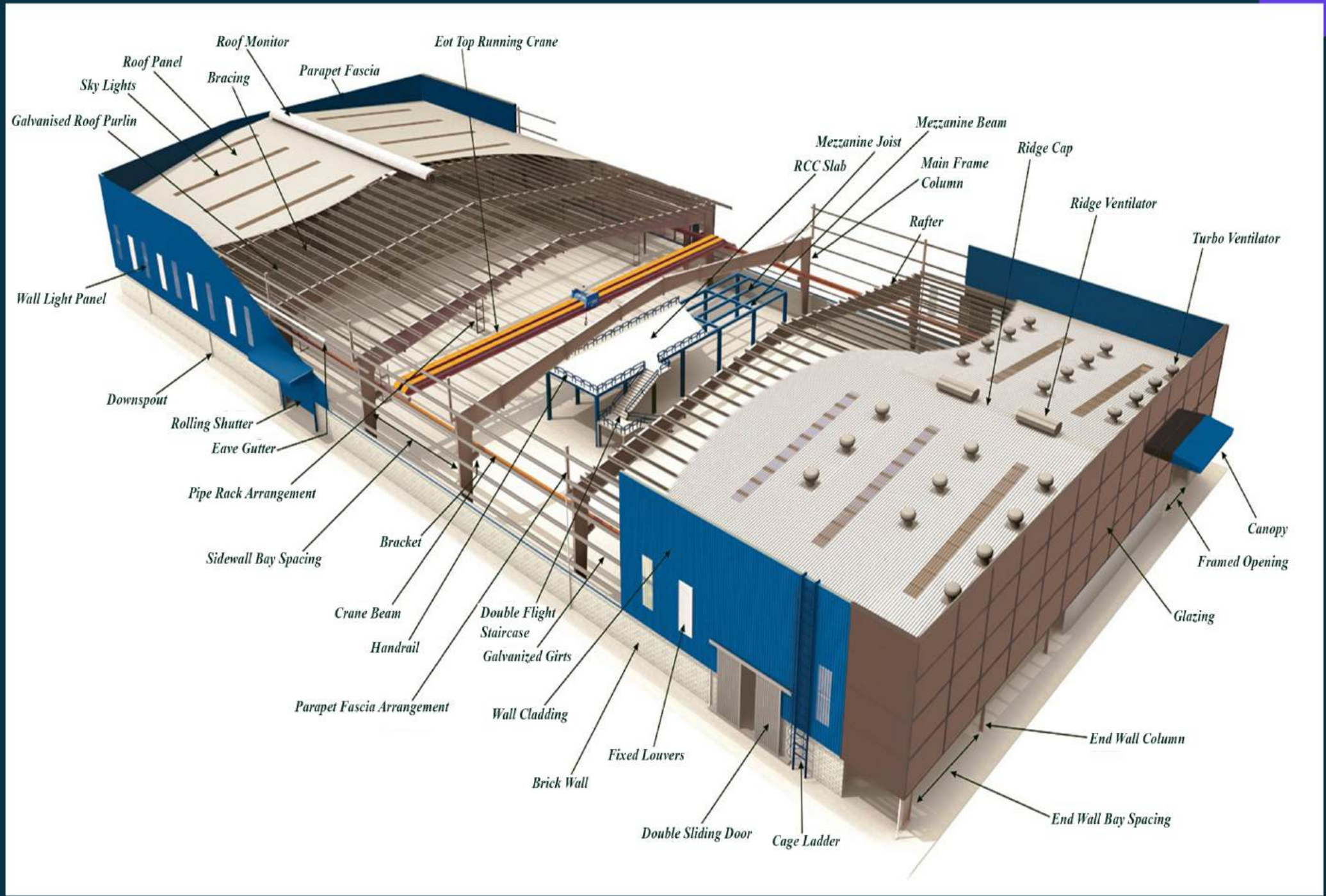
People : We treat every team member with respect and care, fostering a supportive and collaborative work environment.

Integrity, Honesty, Innovation & Credibility: These core values form the foundation of everything we do, guiding our actions and decisions.

Continuous Improvement : We regularly upgrade our technology, infrastructure, and manufacturing systems to meet customer expectations with greater speed and precision.

Key Benefits of Pre-Engineered Buildings

- ✓ **No On-Site Welding :** Eliminates the need for welding at the project location, making it an extremely safe solution—especially for industries where welding is restricted within plants.
- ✓ **Reduced Shuttering & Scaffolding :** The use of prefabricated, self-supporting components minimizes the need for conventional shuttering and scaffolding.
- ✓ **Faster Project Completion :** Shorter construction timelines enable earlier building completion, resulting in quicker returns on investment.
- ✓ **Minimal On-Site Activity :** Most work is completed off-site, significantly reducing the extent of construction activity at the project location.
- ✓ **Enhanced Quality Control :** Quality can be closely monitored and controlled during the manufacturing process itself.
- ✓ **Reduced Waste :** The prefabricated construction method generates significantly less material waste.
- ✓ **Reusable Moulds :** Moulds are designed for multiple uses, contributing to efficiency and cost savings.
- ✓ **Resellable Structures :** Sheds and structures retain value and can be resold when no longer needed.
- ✓ **Easily Portable :** Structures can be dismantled and relocated with ease, offering flexibility for changing requirements.
- ✓ **Aesthetic & Cost-Effective :** Delivers superior visual appeal while remaining one of the most affordable construction solutions available.


Roof Monitor
Eot Top Running Crane
Roof Panel
Bracing
Parapet Fascia
Sky Lights
Galvanised Roof Purlin
Mezzanine Beam
Mezzanine Joist
Ridge Cap
RCC Slab
Main Frame
Column
Ridge Ventilator
Rafter
Turbo Ventilator
Wall Light Panel
Downspout
Rolling Shutter
Eave Gutter
Pipe Rack Arrangement
Sidewall Bay Spacing
Bracket
Crane Beam
Handrail
Double Flight
Staircase
Galvanized Girts
Parapet Fascia Arrangement
Wall Cladding
Brick Wall
Fixed Louvers
Double Sliding Door
Cage Ladder
Canopy
Framed Opening
Glazing
End Wall Column
End Wall Bay Spacing

Important Components of Pre-Engineered Building Structure

The main components of Pre-Engineered Buildings include connectors, roof and wall sheeting, sheeting fasteners, sealers, closures, flashing and trim, ridge caps, gutters, and down-spouts.

1.Primary Members : The primary structural framing consists of transverse rigid frames, end wall wind columns, and lean-to rafters and columns.

2. Secondary Members : Secondary structural framing configurations include purlins, girts, eave struts, wind bracing, flange bracing, base angles, clips, and various other structural components.

3. Paint : All structural members must be wire-brushed to remove dirt, grease, oil, and loose mill scale, followed by application of a red oxide primer coat and air drying. If additional finish painting is required, it can be included within Arise PEB Construction's scope.

4. Connections :

- ✔ Bolting is required for all field connections.
- ✔ The high strength bolts used for primary bolted connections must meet physical specifications or be comparable.
- ✔ The machine bolts used for the secondary bolted connection must meet the physical specifications or an equivalent.

5. Physical Specifications Of Structural Members

- ✔ Flanges and webs connected on one side of the web by a submerged welding method with minimum yield strength of 345 mpa are required for members made of plates.
- ✔ The minimum yield strength required for members made using the so-called forming technique is 345 mpa.
- ✔ The minimum yield strength for members made of hot-rolled structural saves is 250 mpa.
- ✔ The minimum yield strength for angle and rod bracing is 250 mpa.
- ✔ Wall cladding and roof must meet physical requirements and have minimum yield strength of 345 mpa.
- ✔ The minimum yield strength for each of the remaining random secondary members is 250 mpa.

6. Roof sheeting / Wall sheeting : Roof and wall panels shall consist of 26-gauge steel sheeting with Galvalume® color coating or GI color coating. For pre-painted Galvalume® panels, the exterior surface is factory-coated with one mil thick polyester paint. Standard panel colors are grey or white. Additional materials, coatings, and thicknesses are available upon request.

7. Sheeting Fasteners : Standard fasteners shall be self-tapping sheet metal screws with metal and neoprene washers. All screws must have a hexagon-shaped head.

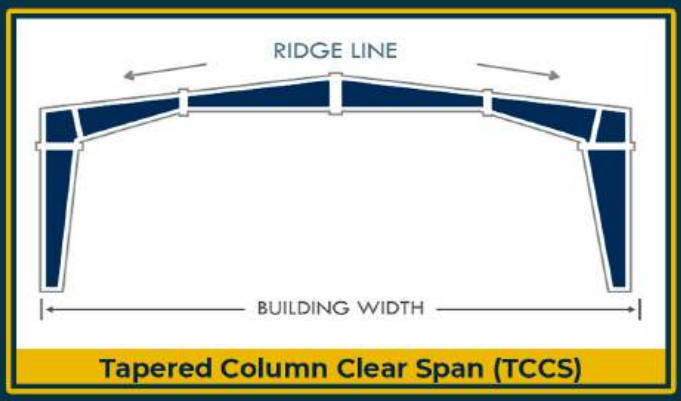
8. Sealer / Rope Seal : Sealer or rope seal must be applied around self-flashing areas, as well as at all side laps and end laps of roof panels.

9. Ridge Cap : A formed panel matching the color, slope, and profile of the roof material shall be strategically placed to cover the peak of a gable roof—the point where the two roof slopes meet.

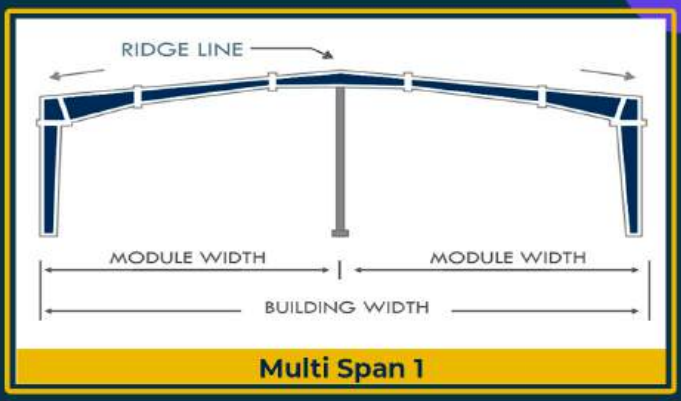
10.Flashing and Trim : Trim and flashing must be applied at corners, eaves, framed openings, and rakes to ensure weathertightness and provide a clean, finished appearance.

11. Eave Gutters and Down-spouts : Eave gutters are fabricated from box-shaped, color-coated galvanized steel with a nominal thickness of 0.5 mm (26 gauge). Gutters shall be positioned at a maximum distance of 0.2 meters from the exterior face of the eave member.

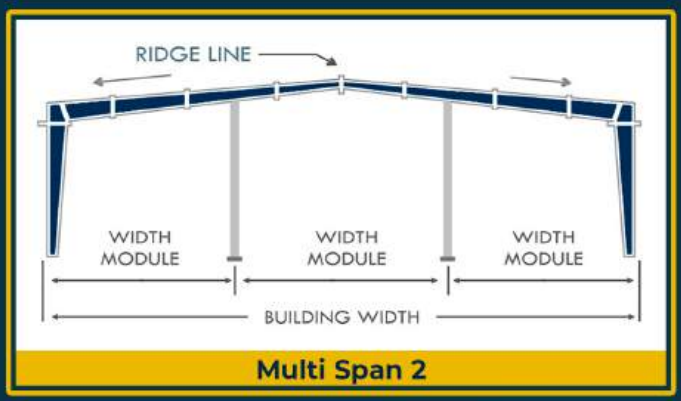
Types of Pre-Engineered Building Frames



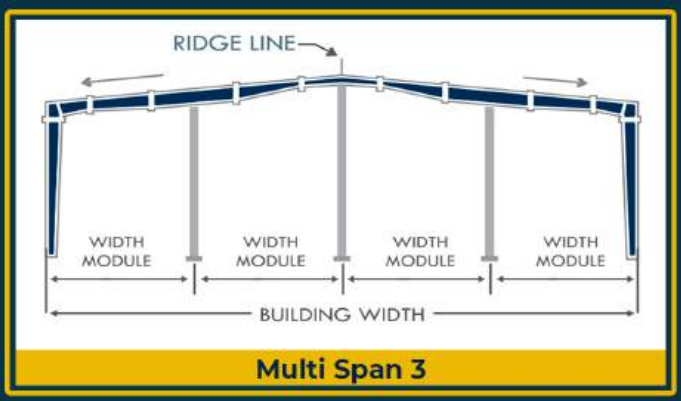
Tapered Column Clear Span (TCCS)



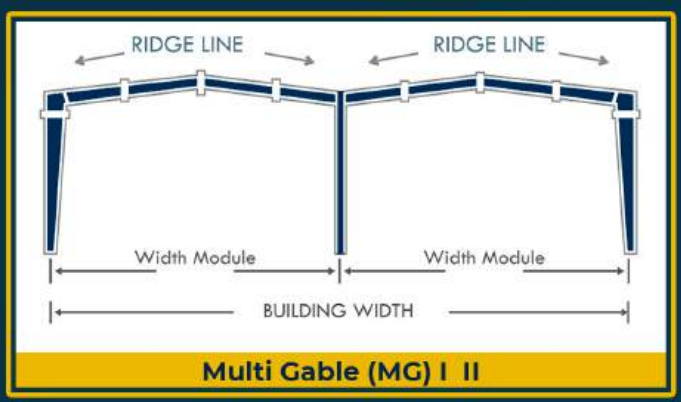
Multi Span 1



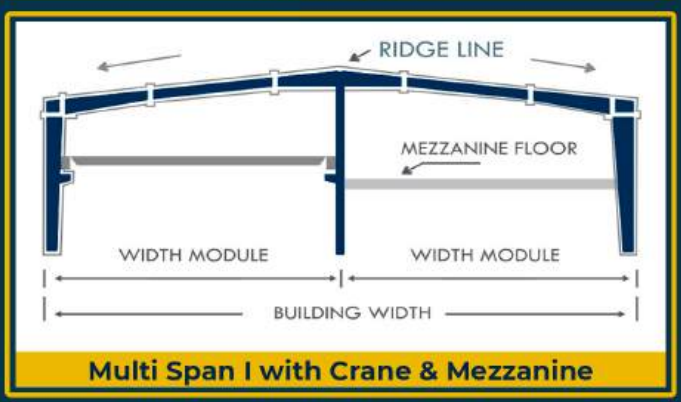
Multi Span 2



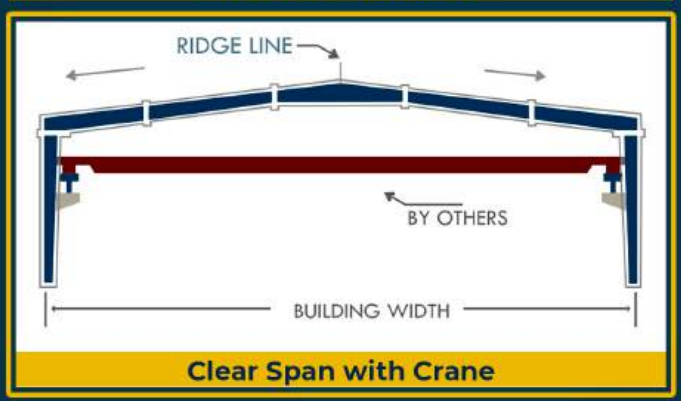
Multi Span 3



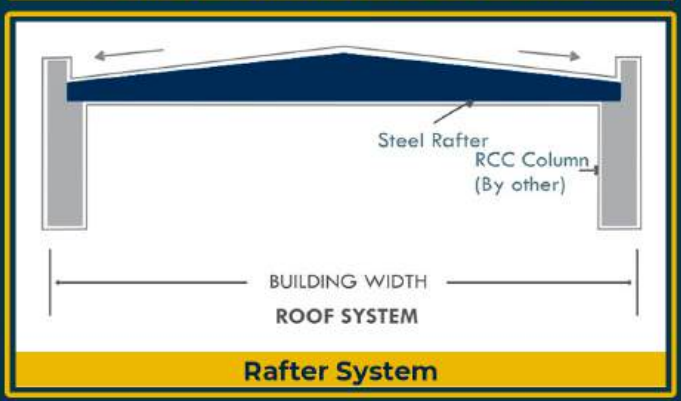
Multi Gable (MG) I II



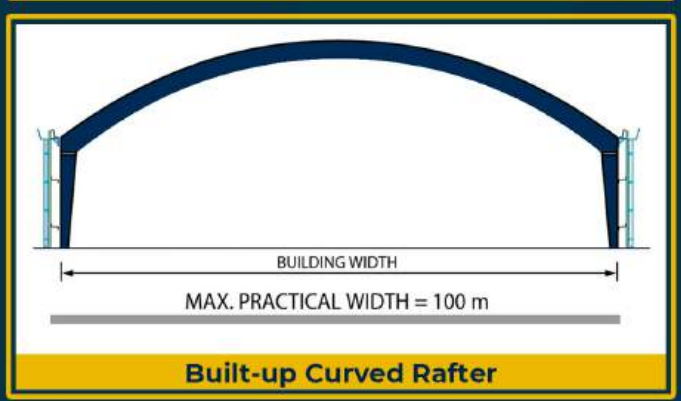
Multi Span I with Crane & Mezzanine



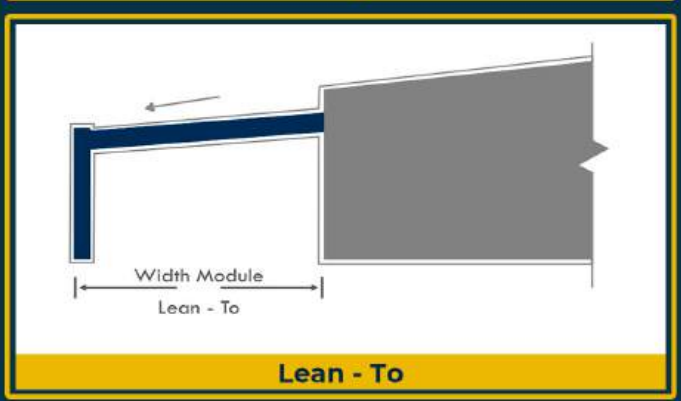
Clear Span with Crane



Rafter System



Built-up Curved Rafter



Lean - To

Pre-Engineered Building's Construction and Erection Process

For owners investing in Pre-Engineered Building (PEB) projects, understanding the implementation process is essential for effective supervision and progress monitoring. Arise PEB Construction provides a clear overview of the typical construction procedure for pre-engineered steel buildings.

1. The Design Drawing of A Pre-Engineered Building

All pre-engineered building projects begin with comprehensive design drawings created from the ground up. These drawings are critical for illustrating the overall structure and detailing every aspect of the project. Based on these plans, contractors can develop optimal solutions for design and construction.

The pre-engineered building's drawings must show the following elements:

- ✔ Structural plans of the building
- ✔ Work specifications, including dimensions, quantities, and detailed statistics
- ✔ Layout plans for components and the ground
- ✔ Drawing management for systematic execution

2. Process And Manufacture Pre-Engineered Building (PEB) Components

Once accurate layout drawings and detailed designs are in place, the next step is the processing of material components. Strict adherence to specifications and data is essential to produce components with precise requirements and measurements.

The component processing stages include:

- ✔ Cutting
- ✔ Gusset plate processing
- ✔ Assembly
- ✔ Welding
- ✔ Gusset plate assembly

3. Erecting The Pre-Engineered Building's Elements

During erection, builders must implement strict safety procedures to protect workers while assembling components to complete the project. Supporting equipment is required to handle and position materials.

1. Mainframe Construction : Assembly begins with the mainframe, including the installation of columns, truss beams, rafter frames, and purlins. All installations must strictly follow the specifications outlined in the design. Proper techniques and equipment assistance are crucial at this stage. Care must be taken to ensure columns are straight and reach the required height during alignment, guaranteeing the stability needed to support the entire structure.

2. Roof and Enclosure Construction : This stage covers the installation of the roof, walls, gutters, and related components. During installation, corrugated iron sheets are drawn onto the roof using sliding pipes and secured with iron hooks. To achieve high quality and a clean aesthetic, panels must be precisely positioned from the start, ensuring complete roof coverage.

4. Examining And Handing Over The Work

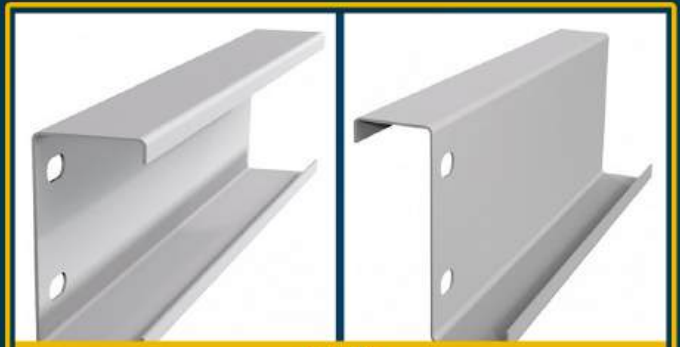
Conducting a thorough inspection of the completed factory is a vital final step. When the construction process follows established standards at every stage, the inspection becomes faster and more straightforward.

Once the project is confirmed to meet all requirements and is deemed ready for use, the contractor proceeds with handover to the owner. In the event of any issues, owners should retain all records and documentation to support future warranty claims.

Pre-Engineered Building's Major Components



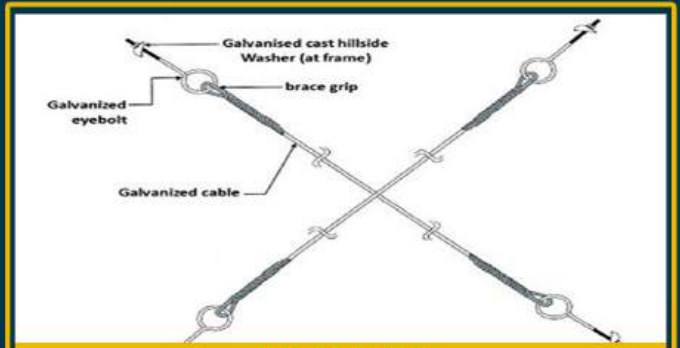
Column & Rafter



Purlin



Sag Rod



Bracing Rod



Insulation



Anchor Bolt



Flange Bracing



Day Light Panel / Polycarbonate Sheet



Ventilator



Roof & Wall Sheet

Factory and Erection Work



Plasma Steel Plate Cutting



H Beam Machine Manufacturing



H Beam Machine Manufacturing



Welding



Drilling



Finished Column



Anchor Bolt Mounting



Erection Process



Roof & Wall Sheeting



Civil Work

Associated With

TATA BLUESCOPE STEEL

JSW

JINDAL STEEL & POWER

सेल SAIL

AARUS Pre-Engineered Building

TATA STEEL

THANK YOU

Arise PEB CONSTRUCTION

www.arisepeb.in

Corporate Office

Office No. : 321, 3rd Floor, DLF Cyber City, Chandaka Industrial Estate, Infocity Road, Patia, Bhubaneswar, Odisha. Pin : 751024

Manufacturing Unit

Plot No. 505, Badapokhari, Tangi, Cuttack, Odisha. Pin : 754022

sales@arisepeb.in +91 8984 363232 | +91 99380 42880

arisepeb arisepeb @arisepeb arisepeb