PREMIER®
PRE-ENGINEERED BUILDINGS


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PREMIER®
PRE-ENGINEERED BUILDINGS

# PRE-ENGINEERED STEEL BUILDINGS

## INTRODUCTION

PREMIER PRE-ENGINEERED BUILDINGS is specialized in design, manufacturing and installation services of Pre-Engineered Buildings and Structural Steel projects. The foundation of the company has been laid by professionals having rich experiences in business development, project management, project execution and customer relationship.

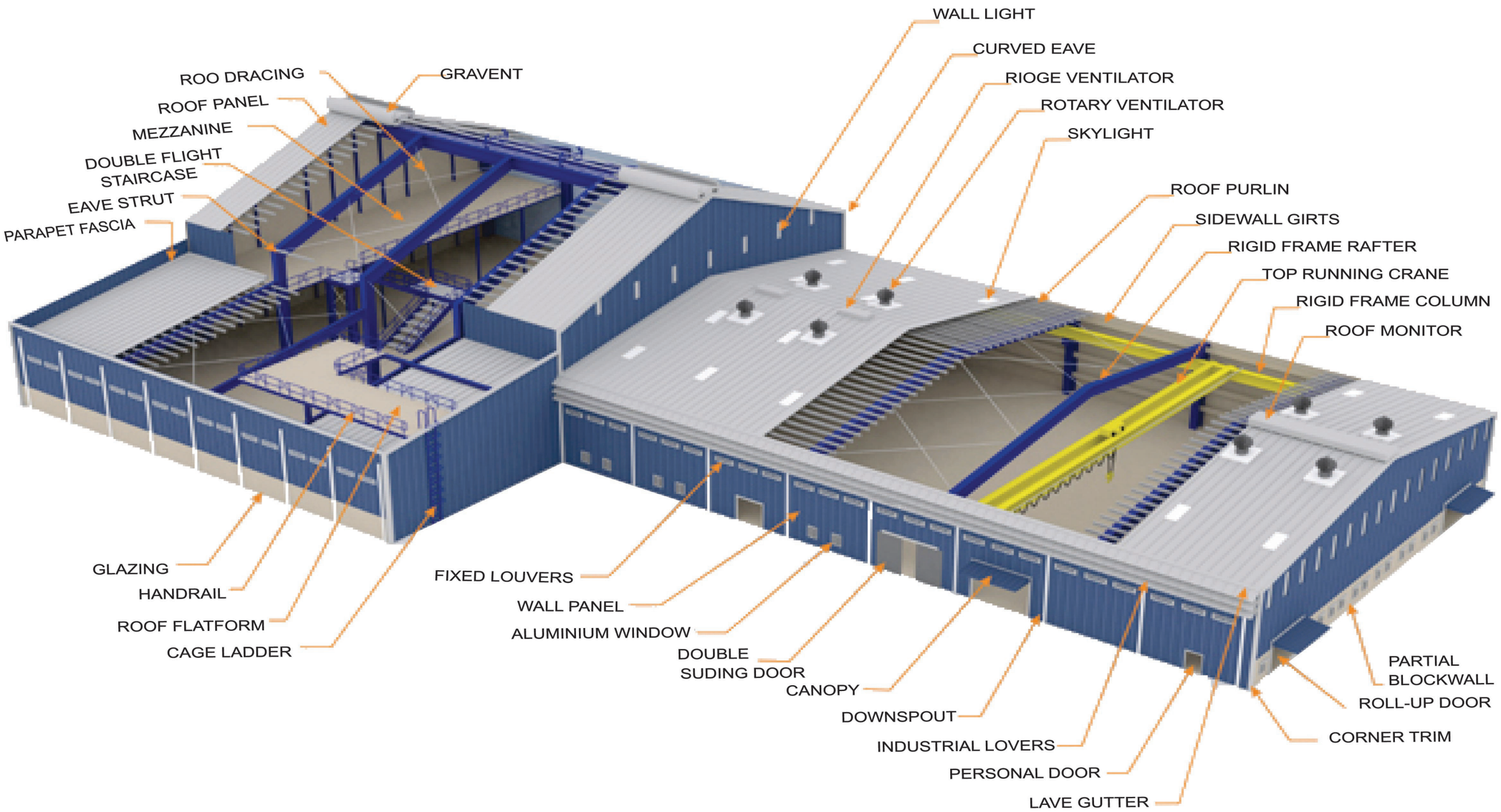
The necessity to meet the growing demand of Pre-Engineered Buildings in India and to provide complete end to end solution to clients for their buildings requirements has been the main reason for emergence of PREMIER PRE-ENGINEERED BUILDINGS .Our aim is not merely supply the buildings to customers but to put in use our expertise at each and every stage of project right from the initial stage i.e. concept and planning, designing, detailing, manufacturing and execution of projects to provide customer an economical and a superfast solution for his requirement.

## VISION

To be the most reliable solution provider in the field of Pre-Engineered Buildings and Structural Steel projects.

## MISSION

Our mission is to provide complete end to end solution to clients for their steel building requirements and enrich them with the experience at our services with utmost satisfaction.


WALL LIGHT
CURVED EAVE
RIOGE VENTILATOR
ROTARY VENTILATOR
SKYLIGHT
ROOF PURLIN
SIDEWALL GIRTS
RIGID FRAME RAFTER
TOP RUNNING CRANE
RIGID FRAME COLUMN
ROOF MONITOR
ROO DRACING
GRAVENT
ROOF PANEL
MEZZANINE
DOUBLE FLIGHT STAIRCASE
EAVE STRUT
PARAPET FASCIA
GLAZING
HANDRAIL
ROOF FLATFORM
CAGE LADDER
FIXED LOUVERS
WALL PANEL
ALUMINIUM WINDOW
DOUBLE SUDING DOOR
CANOPY
DOWNSPOUT
INDUSTRIAL LOVERS
PERSONAL DOOR
LAVE GUTTER
PARTIAL BLOCKWALL
ROLL-UP DOOR
CORNER TRIM

# PRE-ENGINEERED BUILDING COMPONENTS

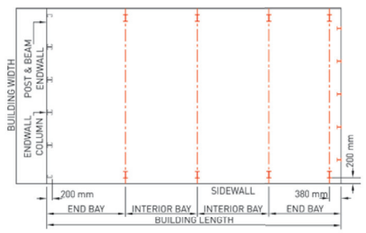
## PRIMARY FRAMING MEMBERS

Primary built-up members (H-Beams) are manufactured by gas cutting of HR steel plates in required sizes, standards confirming to ASTM A572 Grade 345 Mpa. These plates of various sizes are welded together on one side by continuous welding and other side by stitch welding at regular intervals to make an H-beam. These are custom-built sections, so virtually any size of section can be made as per design requirement. Splice plates are welded at the end of different H - beam sections. These H-beam sections are assembled together by bolting the splice plates to make a complete frame assembly. The Primary members are available in high grade steel of minimum yield strength of 345 Mpa.

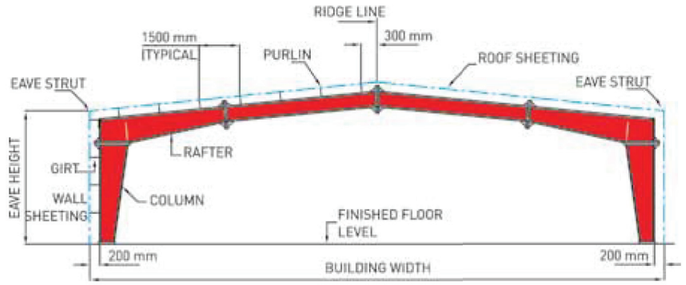
Premier Pre-Engineered Steel Buildings are 100% custom designed to provide maximum space utilisation, excellent strength and highest safety standards.Our basic architectural measures include:

- **BUILDING WIDTH:** the distance from the outside of the eave strut of one sidewall to the outside of the eave strut of the facing wall
- **BUILDING LENGTH:** the distance between the outside flanges of endwall columns in the facing endwall
- **END BAY LENGTH:** the distance from the outside of the outer flange of endwall columns to the centre line of the first interior frame columns
- **INTERIOR BAY LENGTH:** the distance between the centre lines of two adjacent interior main frame columns, which usually range from 6m, 7.5m and 9m to 15m

The Building Height is the eave height, which is the length from the foot of the main frame column base plate to the top outer point of the eave strut and can measure up to a height of 30m. In the case of columns that are recessed or elevated from the finished floor, the eave height is the distance from the finished floor to the top of the eave strut. The Roof Slope is the angle that the roof forms with respect to the horizontal and is commonly 1/10.

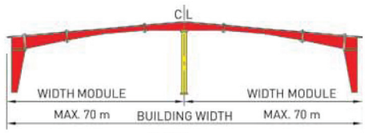



Anchor Bolt Plan

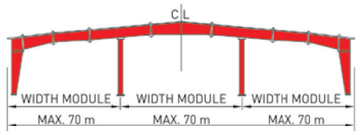



Frame Cross Section

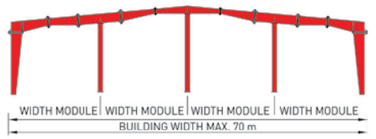

Clear Span




Multi Span

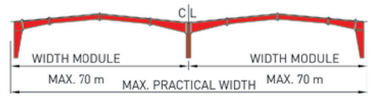



Multi Span

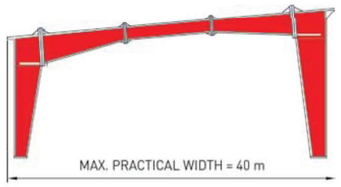



Multi Span

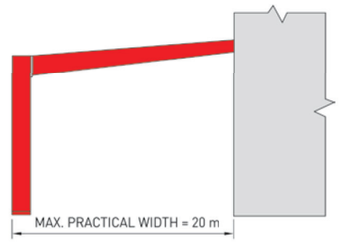

Roof System




Multi Gable




Mono Slope




Lean - TO

# COMPLETE SOLUTION


Premier Pre-engineered Buildings does far more than supply and erection of Pre Engineered metal buildings. We offers complete solutions to the customer enabling them to focus on their organization strategic goals. we undertake a single source responsibility for the project through co-ordination of all the departments viz.

- Design & Engineering
- Manufacturing
- Project management
- Logistics
- Erection

Pre-Engineered Building is a combination of built-up primary members, secondary members and roofing and wall cladding either single skin or insulated panels. Built-up members and secondary members form a well braced steel skeleton structure which is enveloped by roofing and wall cladding. Thus, we get an air tight, weather proof, energy efficient building to serve the need of customer.

Pre-Engineered Buildings are designed with the help of International Standards. These are precisely manufactured as per customer's requirement and also can be fitted with different structural accessories including mezzanines, Canopies, Fascia, Partitions, crane beams etc. to enhance the building usage and its aesthetics.

## SECONDARY MEMBERS

Purlins, girts and eave struts are secondary structural members used to support the wall and roof panels. Purlins are used on the roof; girts are used on the walls and eave struts are used at the intersection of the sidewall and the roof


Typical Z section


Typical C Section

SECONDARY MEMBERS HAVE TWO OTHER FUNCTIONS

- Act as struts that help in resisting part of the longitudinal loads that are applied on the building such as wind and earthquake loads
- Provide lateral bracing to the compression flanges of the main frame members thereby increasing frame capacity.

Purlins, girts and eave struts are available in high grade steel of minimum yield strength of 345MPa in 1.5mm to 2.5mm thicknesses. These members come with a pre-galvanized finish or with a coat of Zn chromate primer for corrosion protection.

## ROOFING AND WALL CLADDING PANELS

Premier Pre-engineered Buildings Offer Roofing and Wall Cladding Panels of 0.5 mm thick and 550Mpa Galvalume material. Standard roof panels are made of Bare Galvalume material and Wall Cladding panels are of colour coated Galvalume material. Panel paintfilm thickness is 25 microns on the exterior weather face and 5-7 microns of PU compatible epoxy primer on the interior face. The sheeting material is with hot dip Metallic coating of Galvalume 150 gm/m2 total,AZ 150 as per ASTM A792 or AS 1392, and wall coated with 25 microns regular modified polyester paint system applied on Zincalume.

PREMIER offers a choice of different- 2 colours in wall cladding panels. These Roofing and wall cladding panels have excellent corrosion and weather resistance longer spanning capability, Thermal efficiency, long durability & safety.

## BUILDINGS WITH MEZZANINES

Premier Standard Mezzanine system is a combination of profiled GI steel deck, built-up primary beams, mezzanine joists and intermediate support columns. Built-up beams span in lateral directions and mezzanine joists in longitudinal directions bolted to the top flange of beams. A concrete slab is cast on the steel deck as a finished surface. Shear buttons are provided on the deck panel for proper bonding of concrete with deck panel.
Steel checkered plates can also be used as top surface.

Mezzanine systems are used in Industrial buildings for additional storage space and office space requirement in building itself .

Mezzanine is a cost-effective and time efficient way to create additional storage space in any new or existing building. Mezzanines create additional floor space by going up not out. saving you the considerable cost of new construction .The prefabricated design also saves time since all component s arrive prefabricated and ready for immediate installation.

## MULTI- STOREYED BUILDING

The use of Pre-Engineered Steel building technology in multi-storeyed construction is very popular in western countries. The technological improvement in multi-storeyed construction technology and due to the advantage of lesser time requirement in construction, usage of Pre-Engineered Steel building is becoming popular in multi-storeyed construction in India now these days .

We offers complete solution for designing, manufacturing and execution of these steel multi-storeyed buildings as per international quality standards.

ADVANTAGES OF STEEL MULTI-STOREYED BUILDING

- Speedy and time-savy construction than RCC.
- Smooth and hassle free execution at site.
- Larger spans without intermediate columns can be effectively achieved in comparison to RCC.
- Lighter Foundation required for Steel Buildings due to less weight than RCC, thus saving on Foundation cost.
- Greater ease of expansion and modification in Steel Buildings
- Earthquake resistant design.

## ADVANTAGE OF PRE ENGINEERED BUILDING

- Super fast construction in comparison to conventional construction methods.
- Cost effective and economical building solution.
- Column less large clear spans can be easily achieved with effective costing .
- Pre-Engineered building offers great flexibility in terms of Future expansions and modifications.
- Due to manufacturing under factory controlled environment, highest Quality standards are maintained.
- Long durability and Low maintenance cost.
- Pre-Engineered building construction is green building construct ion due to recyclable properties of steel.
- Hassle free construction for client due to single source responsibility of Pre-Engineered building supplier.



## TURNKEY SOLUTIONS

Premier Pre-engineered building provide turnkey solutions to our clients including civil and Structural PEB work. With our expertise and vast experience in the construction industry would like to render unique services, which would facilitate our clients to execute the project in a professional manner.

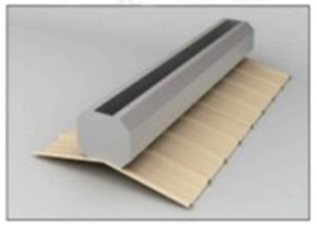
We undertake execution of civil structural construction works right from foundation stage to the completion stage, which includes all kinds of concrete and brick constructions such as concrete foundations, concrete columns, brick masonry, and flooring required to complete a building in totality.

SCOPE OF WORK:

- Foundations
- Substructures
- Super Structures Masonry Works & Plaster
- Flooring Work

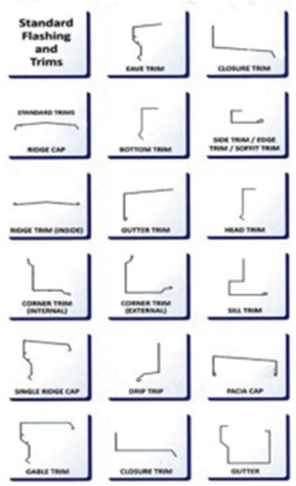
## ACCESSORIES

### RIDGE VENT

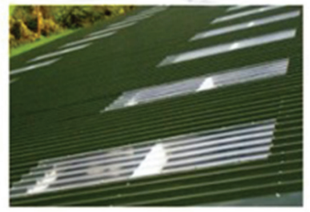


### TURBO VENTILATOR

### TRIMS & FLASHINGS




### SKY LIGHT



### WALL LIGHT

### S TYPE LOUVERS

### WALL OPENING

### FASTENERS

### CANOPY

### FASCIA

### INSULATION