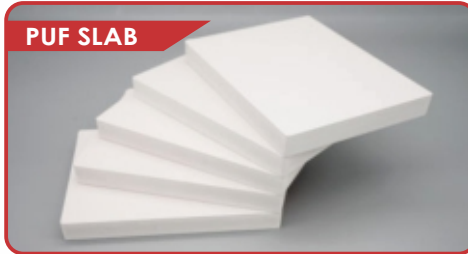




SHRIJI STEEL CONSTRUCTIONS
PRE-ENGINEERED BUILDING

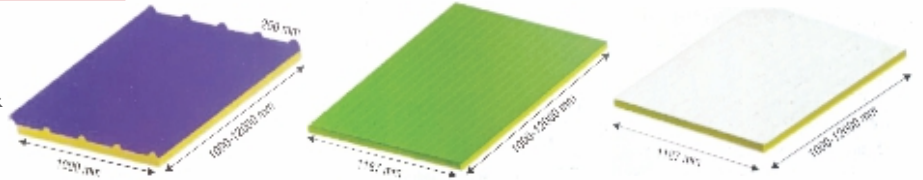
WALL, PARTITION, CEILING, ROOFING PANELS & PREFAB STRUCTURE

SHRIJI is an organization set up by expert group of professionals having vast experience in diversified technical segments. We offer wide range of PUF/PIR panels from Discontinuous and Continuous line for various applications such as Shelters, Cold Room, Cold Storage, Clean Room, Site Offices, Prefabricated Buildings/Houses, and other applications for Roofing Panels, Partition Walls, Walk able false Ceiling etc.



RANGE OF THICKNESS & SIZES

THICKNESS UPTO 150MM &
SIZES: UPTO 12M IN LENGTH &
1.198M IN WIDTH



PU PANEL PROPERTIES

CHARACTERISTIC	VALUE
Temperature Range	-40° to + 80°C
Density	40± 2 kg/m ³
Compressive Strength	110 - 210 kPa
Adhesion Strength	110 - 210 kPa
Tensile Strength	370 kPa
Water Absorption	0.2% Max. At R.H98%

CHARACTERISTIC	VALUE
Water Vapour Permeability	5.5ng / pasm
Thermal Conductivity	≤ 0.02 W/m.K at 23°C
Fire Property	Self Extinguishing*
Dimensional Stability	0.1% at -31°C
Closed cell Content	>95%
Shear with Metal Sheet	160 kPa

ROCKWOOL PROPERTIES

CHARACTERISTIC	VALUE
Bulk Density	160±10% kg/m ²
Moisture Content	2.0 Max %
Moisture Absorption	2.0 Max %
Water Absorption	0.5 Kg/m ²
Incombustibility (%) Loss	3.0 Max %
Service Temperature	750°C
Alkalinity (PH)	7-10
Shot Contents	

CHARACTERISTIC	VALUE
Over 250 Microns	15.0 Max %
Over 300 Microns	5.0 Max %
Chloride Content	0.0020 Max %
Recovery after Compression	Min 90 %
Sulphur Content	Min 90 %
Resistance to	
Vibration Settlement	1.0 Max %
Jolting Settlement	3.0 Max %

A RANGE THAT MEETS EVERY NEED

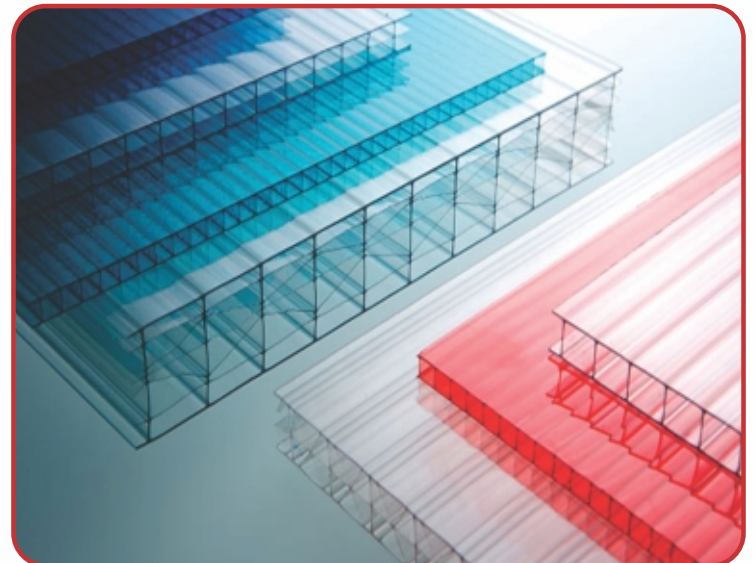
Prominace's products present an exquisite coming together of form and function. The profiles meet various requirements right from budget apartments to palatial villas and commercial establishments - through structural design that can withstand rough weather conditions and wear & tear, ensuring quality consistency and durability.



POLYCARBONATE SHEET

MULTIWALL POLYCARBONATE SHEETS

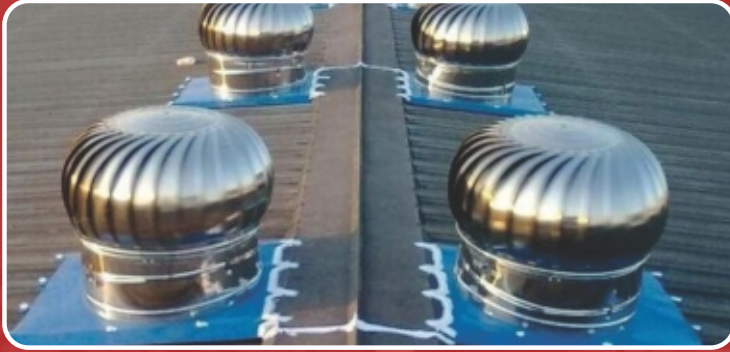
Multiwall Polycarbonate Sheets have seen a sudden rise in the commercial as well as residential roofing industry because of the aesthetic value it adds to the structure. These sheets are the most preferred option of Architects for beautifying the structure. We offer the Multiwall Polycarbonate Sheets under the brand name of Lexan, SG Lite & S Polytech.



TURBO VENTILATOR FAN

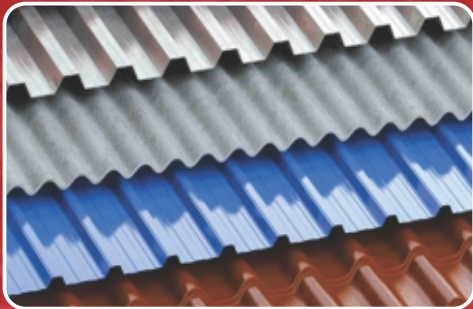
IMPORTANCE OF VENTILATOR DESIGN OR PLACEMENT

As a general rule, hot or stale air will not exhaust through an opening into which wind can blow. Therefore, regular static ventilators, which allow outside wind to enter in the shed because of poor design or location or the roof, cannot be expected to exhaust because they back draft. An efficient means of extracting warm and stale air through roof mounted turbo ventilators, which create positive draft. Adequate low level provision for the entry of fresh air at ambient temperature should be provided.



COLOR COATED ROOFING SHEET


The profile has been specially designed by global experts to ensure high strength and a water-tight roofing solution to ensure leak-proof installations for years to come.



SHRIJI STEEL CONSTRUCTIONS PRE - ENGINEERED BUILDING

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PRE-ENGINEERED
STEEL
BUILDINGS



SHRIJI STEEL CONSTRUCTIONS
PRE-ENGINEERED BUILDING



SHRIJI is one of the leading providers of turnkey solution for innovative and efficient building materials. The principal activity of the organization comprises of Supply of :

- Pre Engineered Buildings
- Prefabricated Structures
- Insulated PUF Panels
(PUF / EPS / Rockwool / Glasswool)
- Color Coated Roofing Sheet

INTRODUCTION

SHRIJI 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.

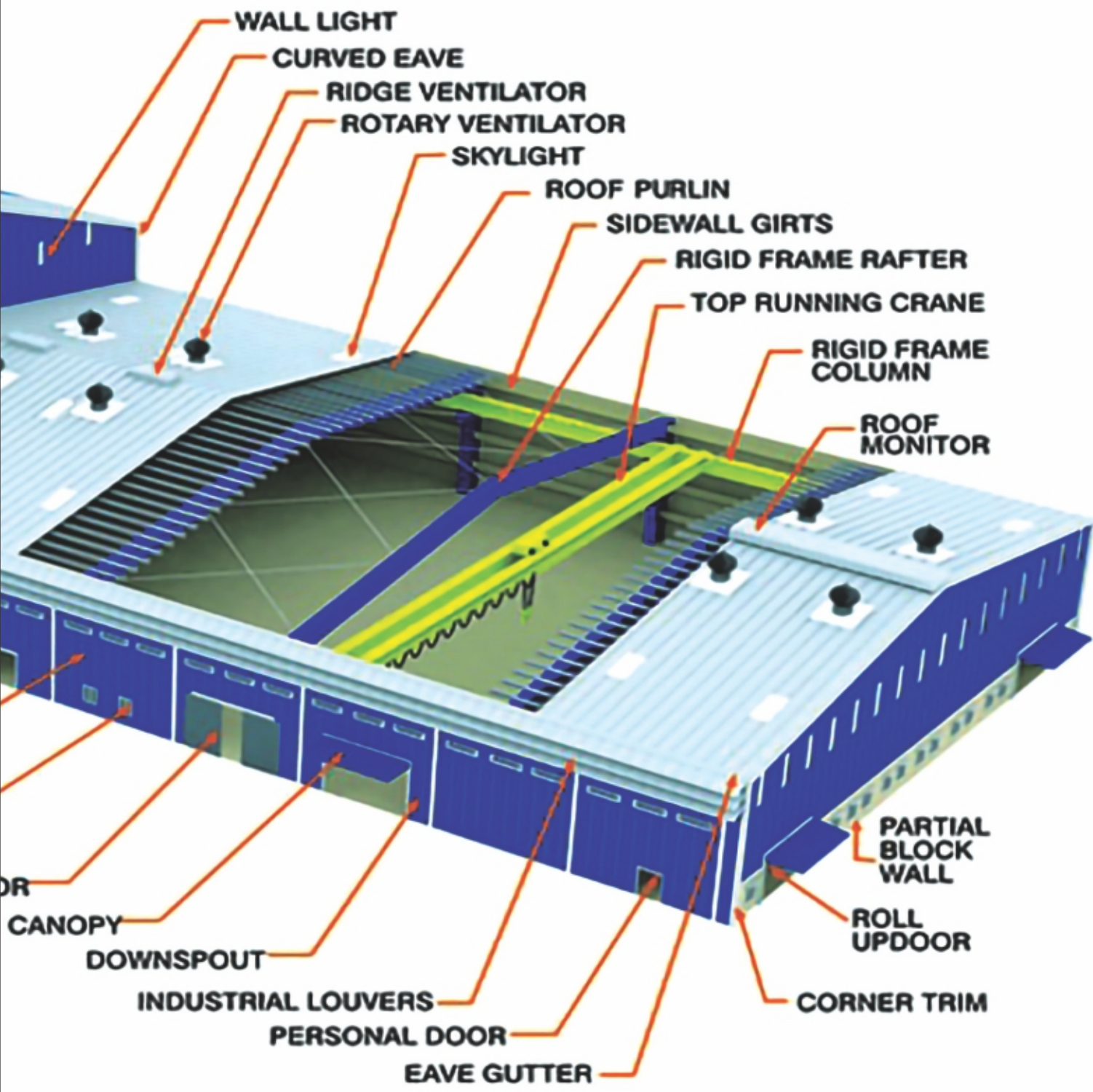
The necessity to meet the growing demand of Pre-Engineered Buildings in India and to provide complete end to end solution to clients for their buildings requirements has been the main reason for emergence of SHRIJI PRE-ENGINEERED BUILDINGS .Our aim is not merely supply the buildings to customers but 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.

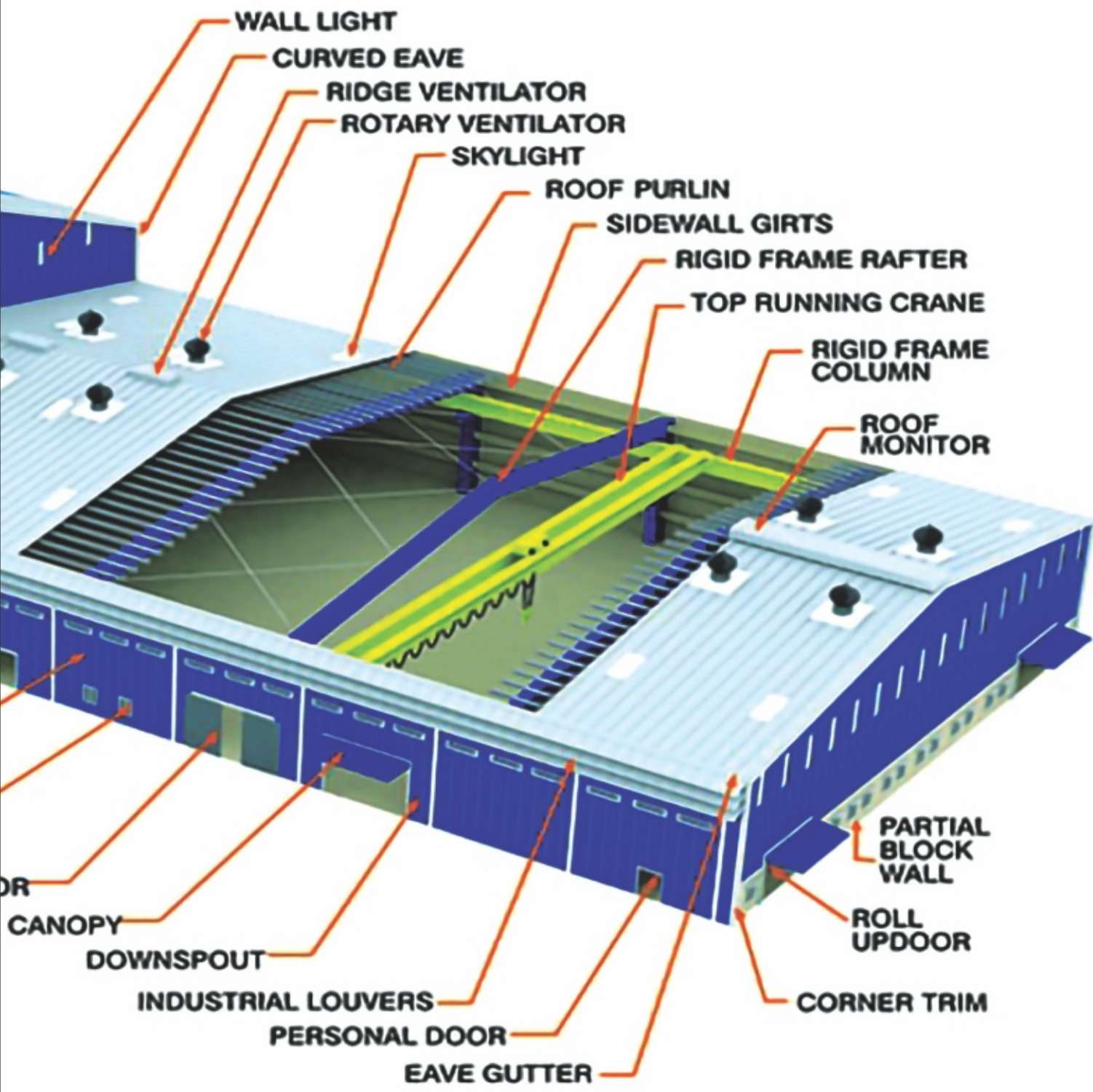
VISION

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.





PRE-ENGINEERED BUILDING COMPONENTS

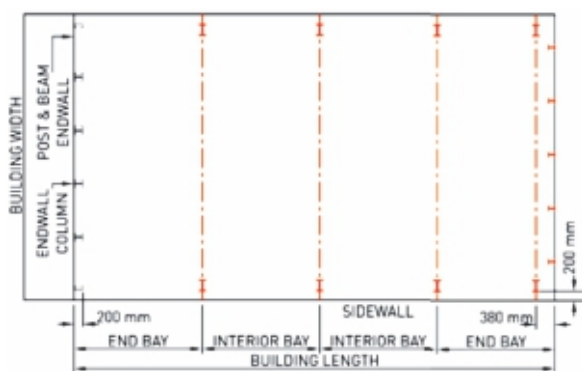
PRIMARY FRAMING MEMBERS

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.

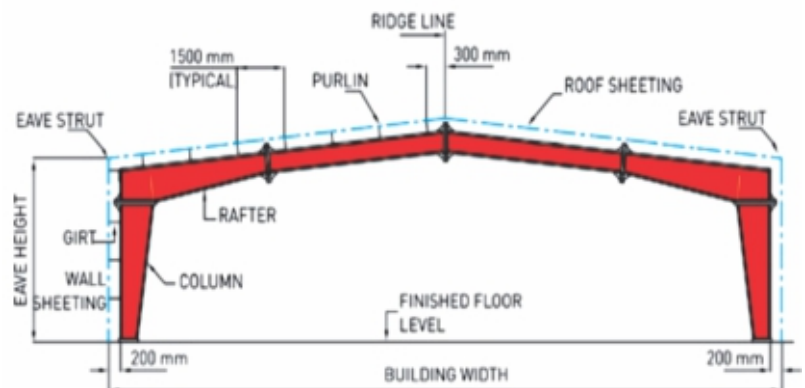
SHRIJI Pre-Engineered Steel Buildings are 100% custom designed to provide maximum space utilisation, excellent strength and highest safety standards. Our basic architectural measures include:

- Building Width: the distance from the outside of the eave strut of one sidewall to the of the eave strut of the facing wall.
- Building Length: the distance between the outside angles 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.

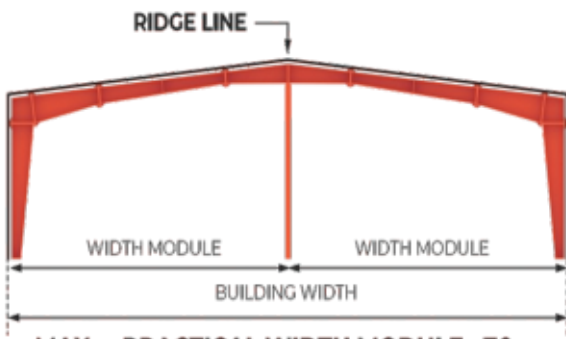
The Building Height is the eave height, which is the length from the foot of the main frame column base plate to the top outer point of the eave strut and can measure up to a height of 30m. In the case of columns that are recessed or elevated from the finished floor, the eave height is the distance from 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.



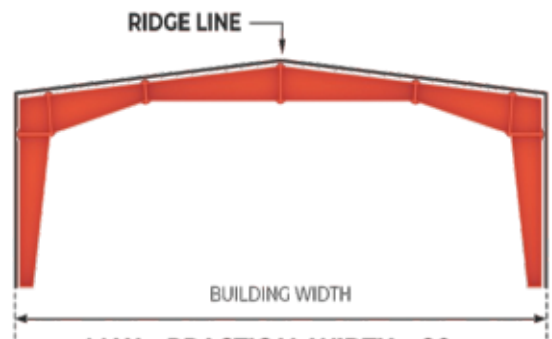
Anchor Bolt Plan



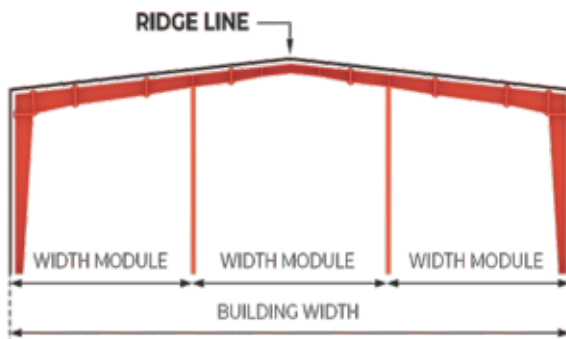
Frame Cross Section



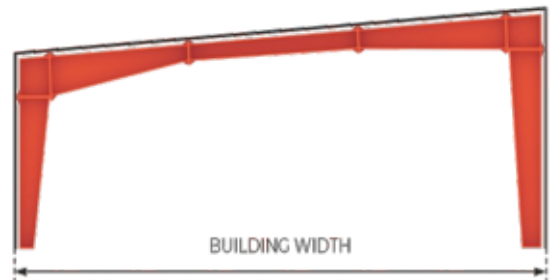
MAX. PRACTICAL WIDTH MODULE = 70m



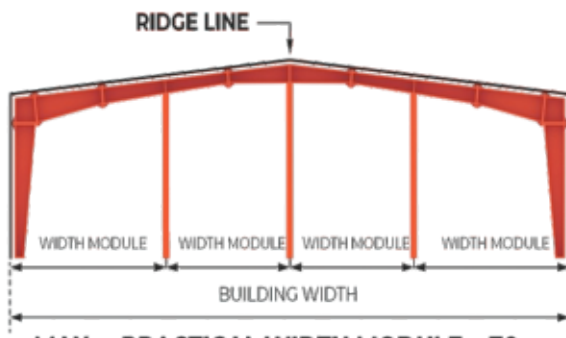
MAX. PRACTICAL WIDTH = 90m



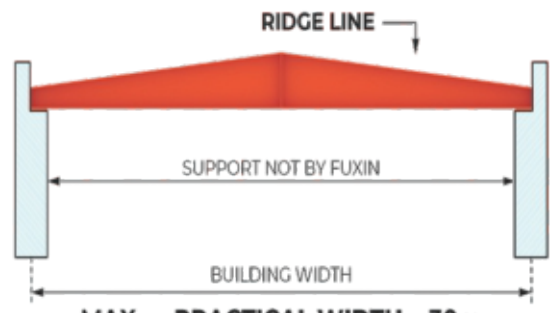
MAX. PRACTICAL WIDTH MODULE = 90m



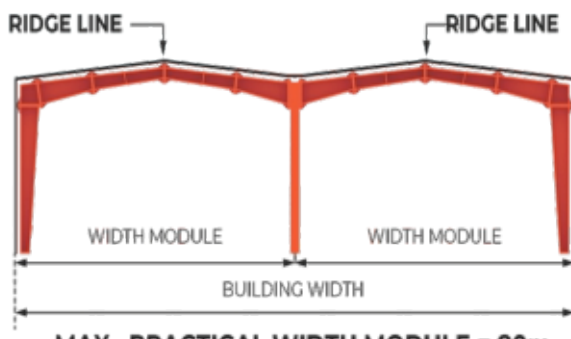
MAX. PRACTICAL WIDTH = 50m



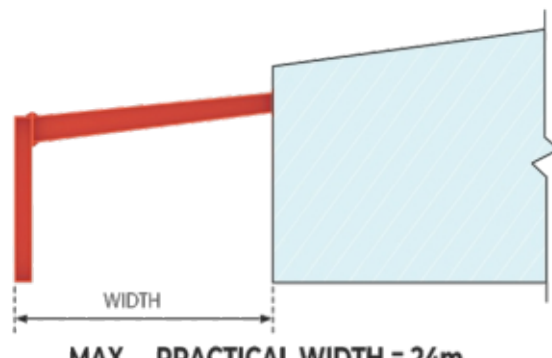
MAX. PRACTICAL WIDTH MODULE = 70m



MAX. PRACTICAL WIDTH = 30m



MAX. PRACTICAL WIDTH MODULE = 80m



MAX. PRACTICAL WIDTH = 24m

COMPLETE SOLUTION



SHRIJI 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.



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

SHRIJI 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 Zinalume.

SHRIJI 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.

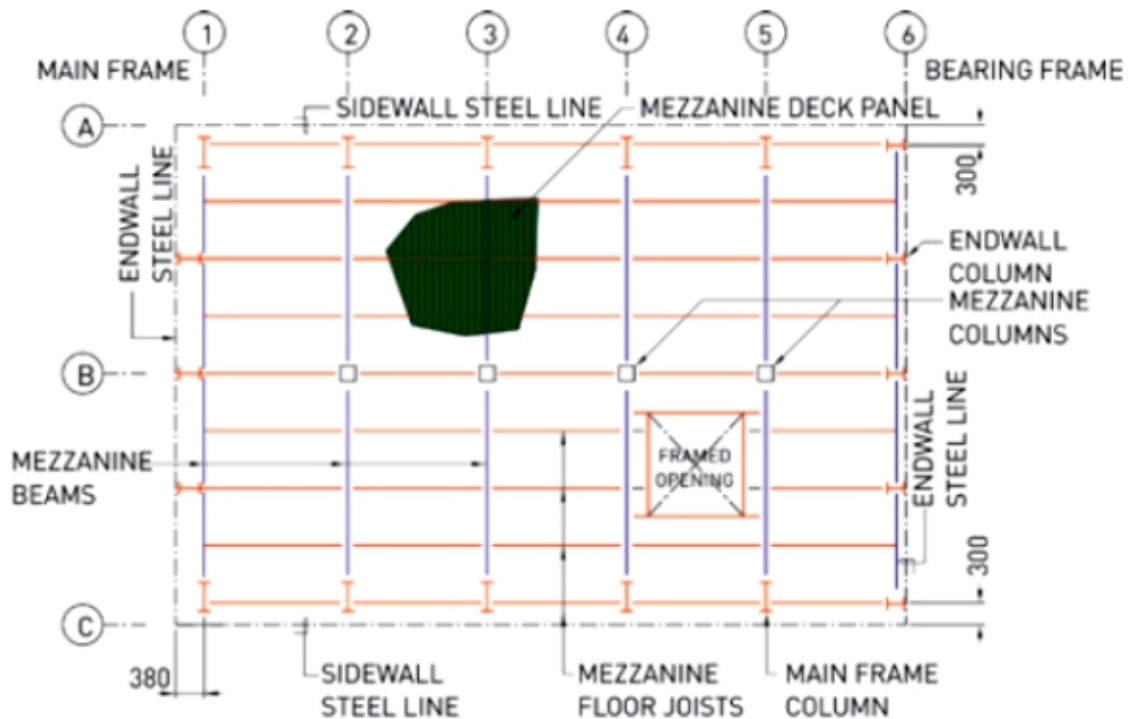


BUILDINGS WITH MEZZANINES

SHRIJI Standard Mezzanine Floor Systems consist of Galvanised Steel Decking supported by joists that are connected to the main mezzanine beams. A reinforced concrete slab (not applied by SHRIJI) is cast insitu on top of the steel decking. The primary mezzanine beams usually run across the width of the building and the joists mostly run lengthwise (parallel to the roof purlins).

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 components arrive prefabricated and ready for immediate installation.



Mezzanine Plan



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.

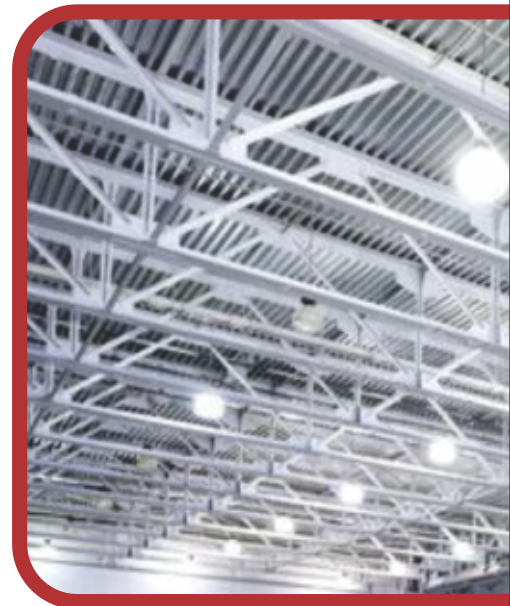
ADVANTAGES OF STEEL MULTI-STOREYED BUILDING

- 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 construction due to recyclable properties of steel.
- Hassle free construction for client due to single source responsibility of Pre-Engineered building supplier.



TURNKEY SOLUTIONS

SHRIJI 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

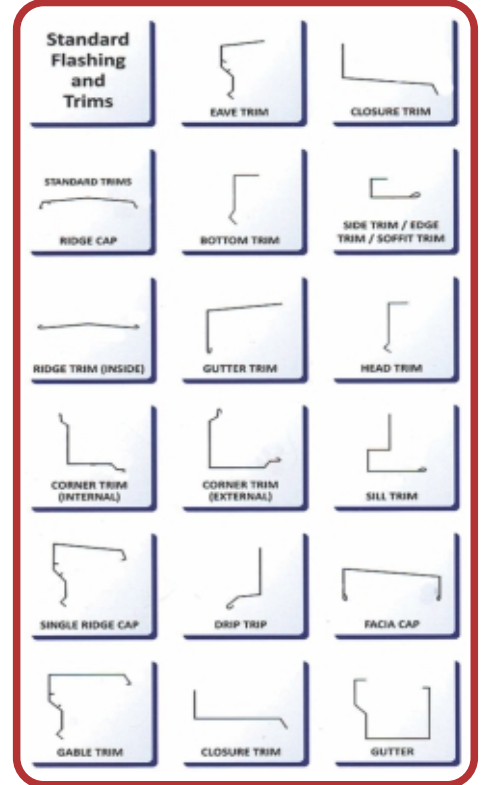
RIDGE VENT



TURBO VENTILATOR



TRIMS & FLASHINGS



SKY LIGHT



WALL LIGHT



S TYPE LOUVERS



WALL OPENING



FASTENERS



CANOPY



FASCIA



INSULATION





SHRIJI STEEL CONSTRUCTIONS
PRE - ENGINEERED BUILDING

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