

Gen Next Solutions For Pre-Fab Buildings



Fmt 
ENGINEERS PVT. LTD.
PRE-ENGINEERED BUILDINGS

About us

FMT Engineers Pvt. Ltd. is a start up venture in the field of PRE-ENGINEERED BUILDING STRUCTURES. Our company took its foray in the year 2008 with establishing the production unit in Udaipur, Rajasthan with the finest state-of-the-art technology & equipment.

We at FMT, proffer a complete building system to the customer commencing from engineering, designing, manufacturing and installing the building at the site. Our in-house manufacturing facilities with impeccable equipments, well-made fabrication components & all requisite accessories enable us to deliver the best quality work to the end users.

The company's philosophy to augment business with the newest technology facilitates in offering the latest structural designs to the customers. And the team's incessant efforts to deliver value driven performance enable us to built strong foundations based on long lasting relations with the customers.



Fortitude Our strong commitment & assurance leads to sturdy structural foundations & business relations



Motif Our artistic work with outstanding architectural designs outshine our quality solutions to customers.



Trail Blazer Our urge to establish new tracks in the field of PEB enable us to generate new innovative ideas & simple speedy solutions.

Our production unit



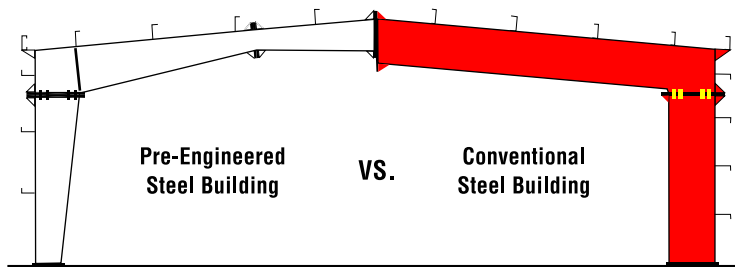
Infrastructure

Our in-house manufacturing facility houses special equipments, which are;

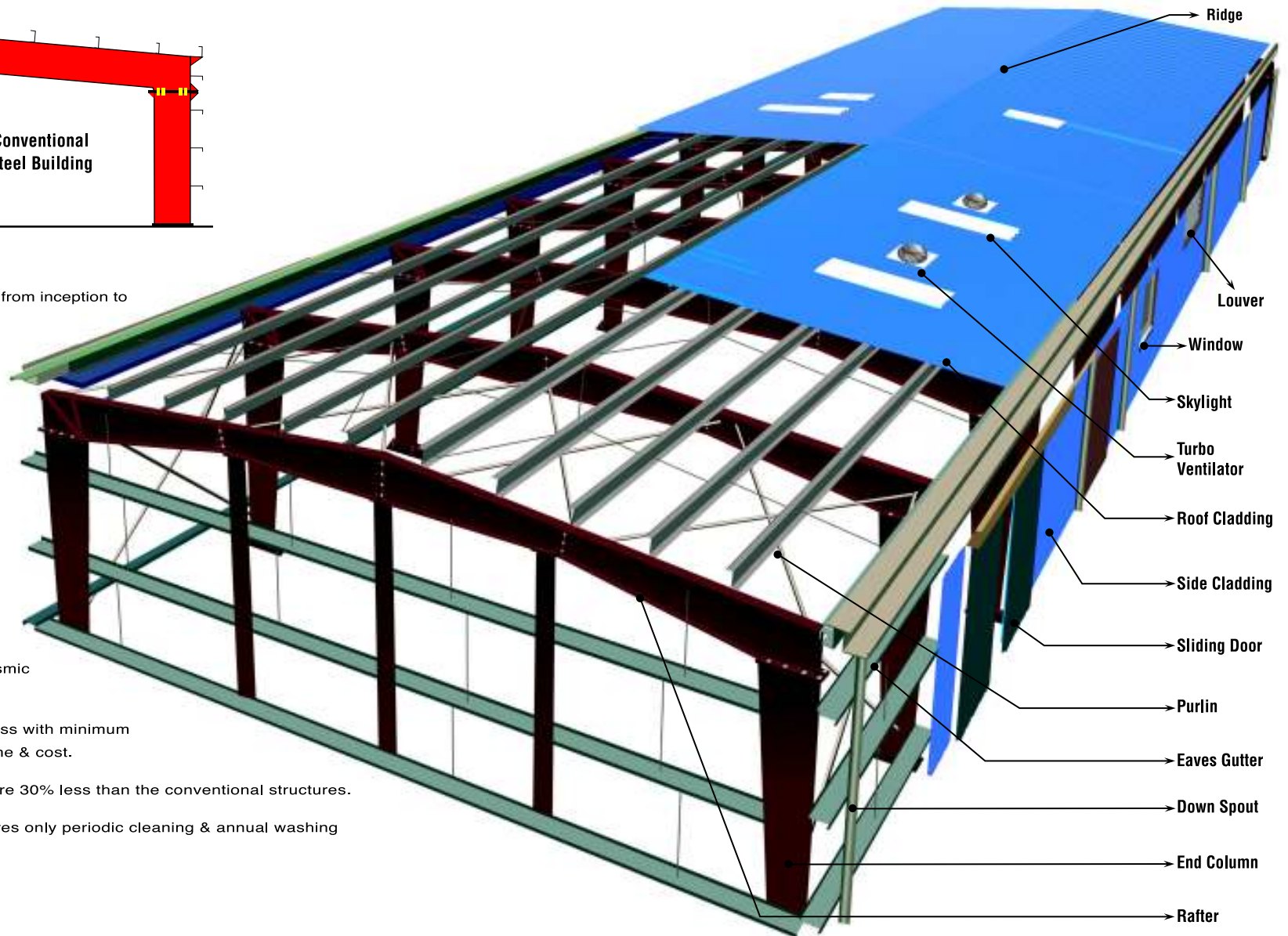
- Automatic Beam Welding Machine
- High-speed Automatic Submerged Arc Welding Machine
- Plate Shearing Line
- Sheet Forming Machine
- Radial Drill Machine
- Heavy duty E. O. T. Cranes
- Hydraulic Press Brake Line



Why Pre-engineered Building Structure



- ⇒ **Responsibility:** Single Source responsibility from inception to completion.
- ⇒ **Foundations:** Simple Design light weight with flexible structure & easy to construct with large space utility.
- ⇒ **Sourcing & Coordination:** Building Structure supplied with complete cladding & all accessories from single source.
- ⇒ **Design:** Quick & Efficient designs through Cad programmes.
- ⇒ **Delivery:** Shortest delivery period on an average of 6-8 weeks.
- ⇒ **Seismic Resistance:** Suitable for various weather conditions & high resistance to seismic disturbance.
- ⇒ **Erection Cost & Time:** Fast Erection process with minimum requirement & predetermined calculative time & cost.
- ⇒ **Price Structure:** Per square meter prices are 30% less than the conventional structures.
- ⇒ **Maintenance:** Low maintenance cost requires only periodic cleaning & annual washing of eave gutters.



Advantages of PEB

⇒ HIGH STRENGTH STEEL

Use of High strength Steel Plates for Fabrication of primary members' i.e. columns, rafters, beams, etc, making the structure light and economical.

⇒ SINGLE SOURCE RESPONSIBILITY

Single source responsibility from inception to completion, covering design, engineering, detailing, fabrication, supply and erection coupled with fastest delivery time and easy installation.

⇒ COLUMN FREE BUILDINGS

Column free buildings with longer space, which are Re-locatable & Re-workable.

⇒ FUTURE EXPANSION

Quality and innovation assured with provision for easy future expansion, flexibility in design to accommodate utility.

⇒ FOUNDATION REQUIREMENTS

The foundation requirements of Pre-Engineered Steel Buildings are fewer and lighter. This is due to wider clear span capability of main frames, longer economic bay lengths and lower weight of the overall Pre-Engineered Buildings Steel Structure. Modular Construction (Both the length and the width can be increased incrementally).

⇒ LARGE UNOBSTRUCTED SPACE UTILITY

- Clear span up to 80 Mtr.
- Bay lengths up to 10 Mtr.
- Eave heights up to 30 Mtr.

⇒ SUITABLE FOR VARIOUS WEATHER CONDITIONS

Manufactured in; specialised production facility, specialised welding quality, specialised productive coatings, insulated to suit various weather conditions. Ability to withstand seismic forces.

⇒ EASY TRANSPORTATION

Transported in knock down condition.

⇒ LOW MAINTENANCE COST

Low maintenance cost, virtually no maintenance required for wall panels, roof panels require only periodic cleaning, annual washing of eave gutters.

⇒ VAST RANGE

Pre-Engineered Buildings (PEBs) use a predetermined inventory of Raw materials that has proven to satisfy a wide range of structural and aesthetic design requirements. The flexibility allows PEBs to fulfill an almost unlimited range of building configurations, custom designs, requirements and applications.

Applications

INDUSTRIAL

- Factories
- Workshops
- Warehouses
- Cold Stores
- Car Parking Sheds
- Bulk Product Storage
- Process Plant

INSTITUTIONAL

- Schools
- Exhibition Halls
- Hospitals
- Theaters/Auditoriums
- Sports Halls

COMMERCIAL

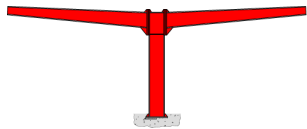
- Showrooms
- Distribution Centres
- Supermarkets
- Fast Food Restaurants
- Offices
- Toll Plaza
- Labour Camps
- Service Stations
- Shopping Centers

AGRICULTURAL

- Dairy Farms
- Green Houses
- Grain Storage

AVIATION & MILITARY

- Aircraft Hangar
- Administrative Buildings
- Residential Barracks
- Support Facilities



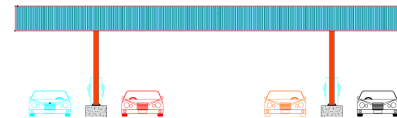
Parking



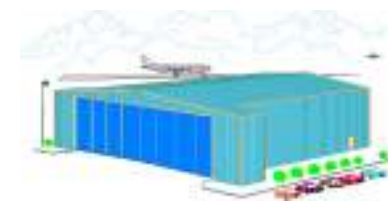
Warehouses



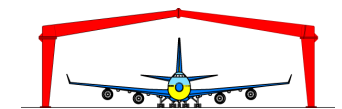
Fuel Station



Service Station



Aircraft Hangars



Aircraft Hangar

Pre-engineered Building Primary System

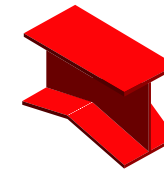
Primary Built-up Members mainly consists of;

- Built-up "I" shaped primary structural framing members
- Columns
- Rafters

These members are fabricated from high strength grade plates, which are cut to size and shape as per the specifications, which are used in making Built-up sections.



Typical Column



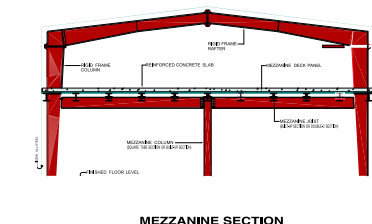
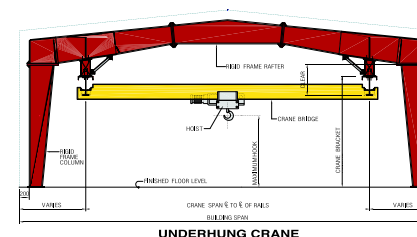
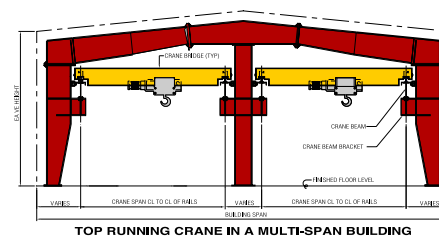
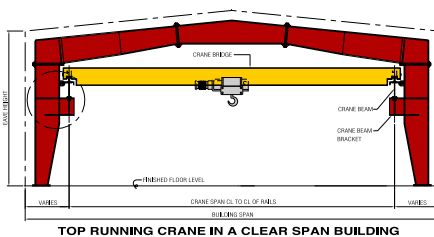
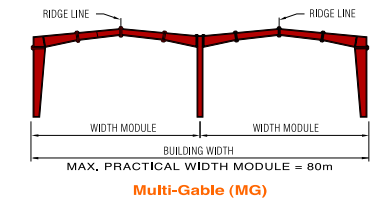
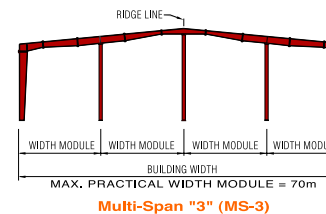
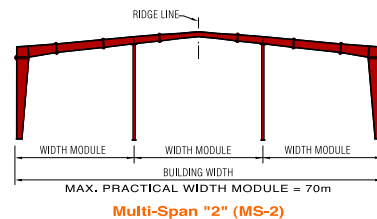
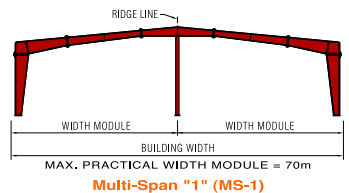
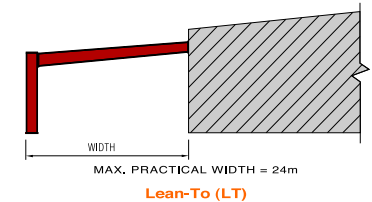
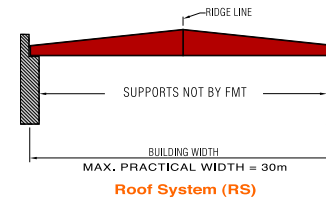
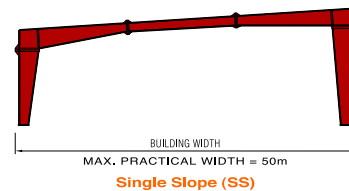
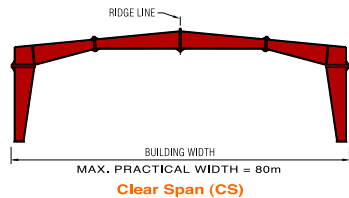
Typical Rafter



PRIMARY FRAMING SYSTEM

In this system practically any geometrical frame is possible. Unsymmetrical framing systems about the ridge line and multiple framing systems with unequal width are also possible, but they require more engineering time and longer delivery periods.

All the above components are designed in such a manner that they are compatible with each other. The fabrication of these components is carried out under strict quality control norms as per detailed shop drawings. Functional subsystems include mezzanine floors (including joists and decking), crane runway beams (to support crane systems), roof platforms, catwalks, etc. Aesthetic features include fascias, parapets, canopies and roof extensions. These components are transported to site with proper markings and are assembled at site as per erection drawings.

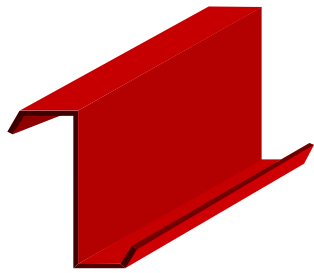


Pre-engineered Building Secondary System

Secondary Built-up Members mainly include

- Purlins • Eave Struts • Side Runners • Fascia Channels • Door Posts • Window Posts • Rafter Stays • Column Stays • Base Angles

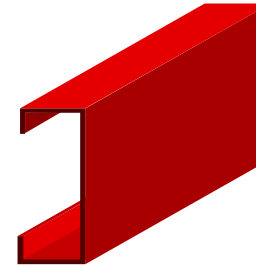
Cold-formed "Z" and "C" shaped secondary structural members are Cold Roll Formed light gauge, which are made as per the design requirement and consist of; • Roof Purlin • Eave Struts • Wall Girts



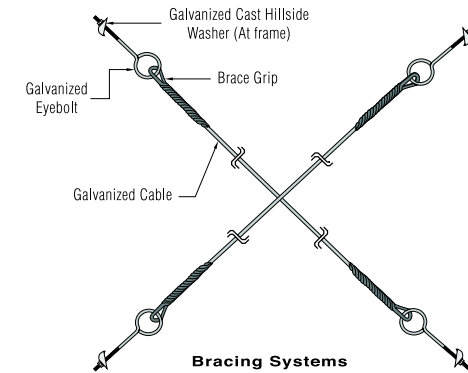
Typical "Z" section



"Z" Purlin



Typical "C" section



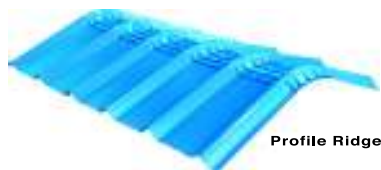
Bracing Systems

Pre-engineered Building Sheeting Systems

The sheets and panels provided by us are of Galvanised/Galume Aluminium/Stainless Steel, Cold Rolled Low Carbon Steel Coils. They are of Two Coat Two Bake Colour Coating Line of RMP/SDP/PU/SMP/PVDF/Plastisol Paint, solvent & Water Base PU & Polyester Guard Film.

These basically consist of

- Metal Roofing / Wall Cladding • Connection Fasteners • Sky Light (Sky Light & Poly Carbonate)
- Turbo Ventilator • Ridge Ventilator • Roof Curbs • Gutter • Window • Door



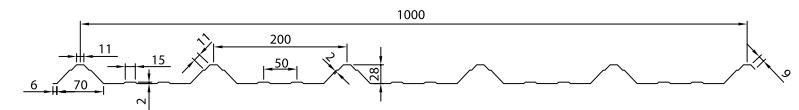
Profile Ridge



Sheet



Crimping Curve



AVAILABLE COLOUR SHADES



Taurus Blue



RAL 5005



RAL 5012



Brick Red



Terracota



Caulifield Green



Environmental Green



Beige



RAL 9006



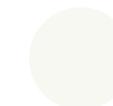
Mills Std. Grey. BIC



Mills Std. White. BIC



Off White



RAL 9002

Accessories



- **TURBO VENTILATORS**

These are velocity driven and the centrifugal force generated, creates a low pressure area, which draws out stale, damp and hot air through these ventilators, and the fresh air is automatically replaced. Turbo ventilators being wind driven, save on energy, are pollution free and virtually maintenance free.

- **CANOPIES & SLIDING DOORS**

Canopies are basically used as a cover at the entrance of a building, as a shade for parking the cars, loading and unloading of trucks, block sunlight and rain. The canopies can extend along the full or partial length of the walls of the building.

Sliding Doors provided are of liner slide motion type. The frame of these door is supported on free moving wheels fitted with bearings and so designed that it can easily move in the guide. The doors are so designed that they add to the aesthetic beauty of the structure.



- **LOUVERS**

The Louvers are mainly used to maintain a regular flow of fresh and natural air in the industrial and storage areas. They, in combination with Turbo Ventilators, help in reducing the build-up of dust, vapour and heat inside the building.

- **FASCIAS**

Fascias are mainly provided for concealing the part or all of the Gable Roof, Soffit, Trims, Gutters & Downspouts. It also provides proper colour coordination to the Fascia Sheeting. This adds beauty to the structure and gives it an adequate facelift.



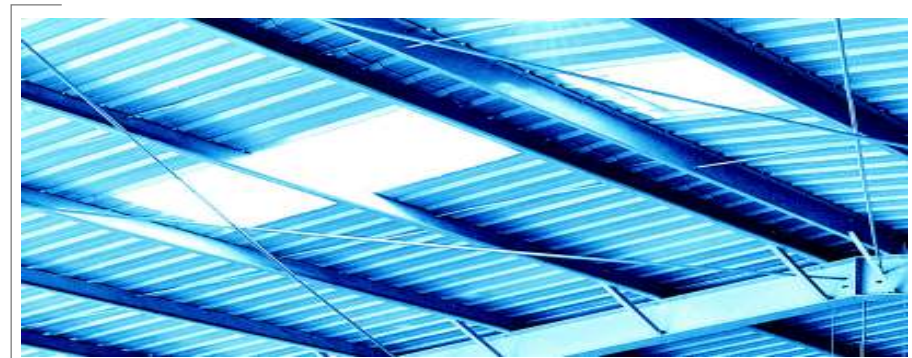


- **FLASHINGS & TRIMS**

Flashings & Trims create an air of artistic harmony and splendor to the Pre Engineered Building Structures. These are sheet metal closures designed primarily to protect from weather effects and neat appearance at corners and junctions.

- **FRP SHEETS/STRIP LIGHT**

The FRP Sheets provided by us are water resistant, non-combustible, and environment friendly. As they are translucent and transparent in nature they save drastically on the Electricity Bills.



- **NUTS & BOLTS / ANCHOR BOLTS**

The nuts & bolts provided by us are Self Drilling, Self Trapping Screws & Fasteners, which are coated with a combination of Tin - Zinc Coating which is mechanically deposited. This coating prevents the accumulation and formation of Impurities, Moisture, Rust, and Electrical Current, on and around the steel/metal surface.



*Few of
Our Creations*







B - 4, E - 5, RIICO Industrial Area, Gudli, Dist. UDAIPUR - 313 024, INDIA. Phone: + 91 - 294 - 2655271, 2655277, 2492200 - 02, Fax: + 91 - 294 - 2492201,
Mob: + 91 - 9829041414, + 91 - 9829042424, Email: fmtengineers@gmail.com, Web: www.fmteng.com