FT

Infrastructures

Engineering to Excellence...

FT INFRASTRUCTURES

We introduce ourselves as Engineering, manufacturing & contracting company Specialized in Steel structural buildings design, fabrication and Civil works for Commercial, Industrial & Warehouse building projects. FT Infrastructures provides value for money. We offer you buildings which we strive to achieve excellence in the quality of products we construct and the service we provide to our customers .We work together to achieve "Complete Customer Satisfaction through Total Quality Management".

OUR VISION

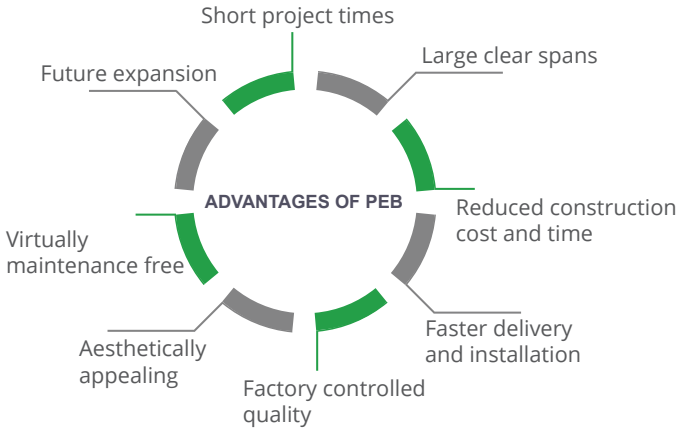
To be the most reliable and innovative manufacturer, service and solution provider in the steel industry.

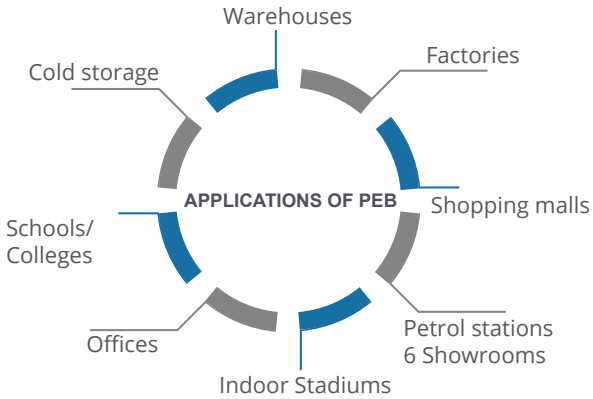
OUR MISSION

To supply high-quality steel products, providing related services and solutions to a worldwide client base while utilizing innovative technologies within an environment of motivated employees, focused on continuous improvement, highest business standards, work ethics and corporate citizenship, leading to added value for our customers and sustained return on investment.

WHAT IS PEB

PEB refers to Pre Engineered Building which is individually designed; factory manufactured and on-site erected steel buildings, suitable for variety of industrial, commercial and residential applications. The name Pre-engineered building was adopted for the following reasons: Pre-set methods for connecting and welding (standardized connections).Utilization of pre-determined stock sizes. Optimized design, detailing and fabrication, resulting in most economical (lower weight) and fast delivery (reduced engineering time and fabrication time).





HOW PEB DIFFERS FROM CONVENTIONAL STEEL BUILDINGS

PRE ENGINEERED BUILDINGS (PEBS)

- Structural weight is about 30% lighter through the-efficient use of steel. Primary framing members are (varying depth) tapered built-up plate sections with large depths in the areas of highest stress.
- Secondary members are light gage (light weight) cold formed (low labor cost) "Z" - or "C" shaped members.
- Foundations are simple, easy to construct and light weight
- Design is quick and efficient since standardization of P.E.B. has significantly reduced design time.
- Erection is easy, fast, step by step. Erection costs & time are accurately known, based upon extensive experience with similar buildings.
- Outstanding architectural design at low cost. Conventional wall, and fascia materials, such a concrete, masonry and wood, can be utilized.
- Easier to incorporate future expansions due to modular nature of design .
- Faster Completion time- as civil works can be completed parallel Cost per SQM is about 30% cheaper than conventional structures .

CONVENTIONAL STEEL BUILDINGS

- Primary steel members are selected from standard hot rolled "I" sections, which in many cases are heavier than what is actually required by - design. Members have constant cross-sections along the entire span, regardless of local stress magnitude. Secondary members are selected from standard hot rolled 'I" and "C" sections, which again are much heavier than required.
- Extensive heavy foundations required.
- Each conventional steel structure is designed from scratch by the Consultant, with fewer design aids available to the Engineer. Maximum engineering required on every project.
- Slow, extensive field labor required. Typically 20% moreexpensive than a normal PEB building.
- Special architectural design requires research and high cost.
- More difficult to make expansions or changes.
- Slower completion time compared to PEBs.
- Cost is higher compared to PEBs.

COMPONENTS OF PEB BUILDING

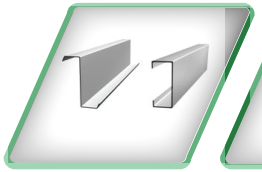
PRIMARY MEMBERS

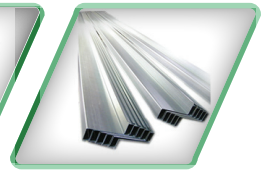
Primary framing consists of columns and rafters with tapered web and variable flanges. These are manufactured by welding together cut plates to form the desired frame I — Sections. The tapered sections are welded at a factory/ bolted at site splices to form the desired frame profile. These frames in PEB are normally moment resisting frames with fixed or pinned bases mandated by the design. Grade 50 confirming to ASTM A572 materials having minimum yield stress of 345 N/mm2. Web to flange welds of Built Up members are Single side fillet welds by continuous automatic SAW process.

SECONDARY MEMBERS

Secondary framing members used in PEB's are roof purlins and wall girts, eave struts, flange braces etc. Purlins, Girt and eave struts are made o f cold formed sheets. Normally, secondary framing members are in Z or C shapes. Purlins which are used to support roof sheeting and the girts at longitudinal walls are normally designed as continuous members. However, the girts at transverse or short walls are normally designed as simply supported beams. The spacing of secondary framing members are primarily dictated by the capacity of the cladding to span in between the purlins/girts.

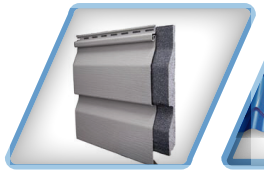
Pre galvanized light gauge cold formed sections having min. yield stress of 345 N/mm2.

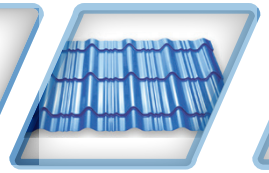




SHEETING/PANELS/CLADDING

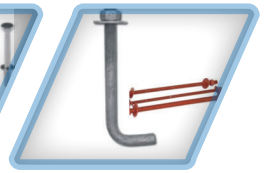
Panels refers to exterior roof and wall panels, interior roof and wall liner panels, partition panels, fascia panels etc. Cladding comes in a variety of profiles which are customized to suit structural and aesthetic requirements Galvalume - Bare/pre painted.

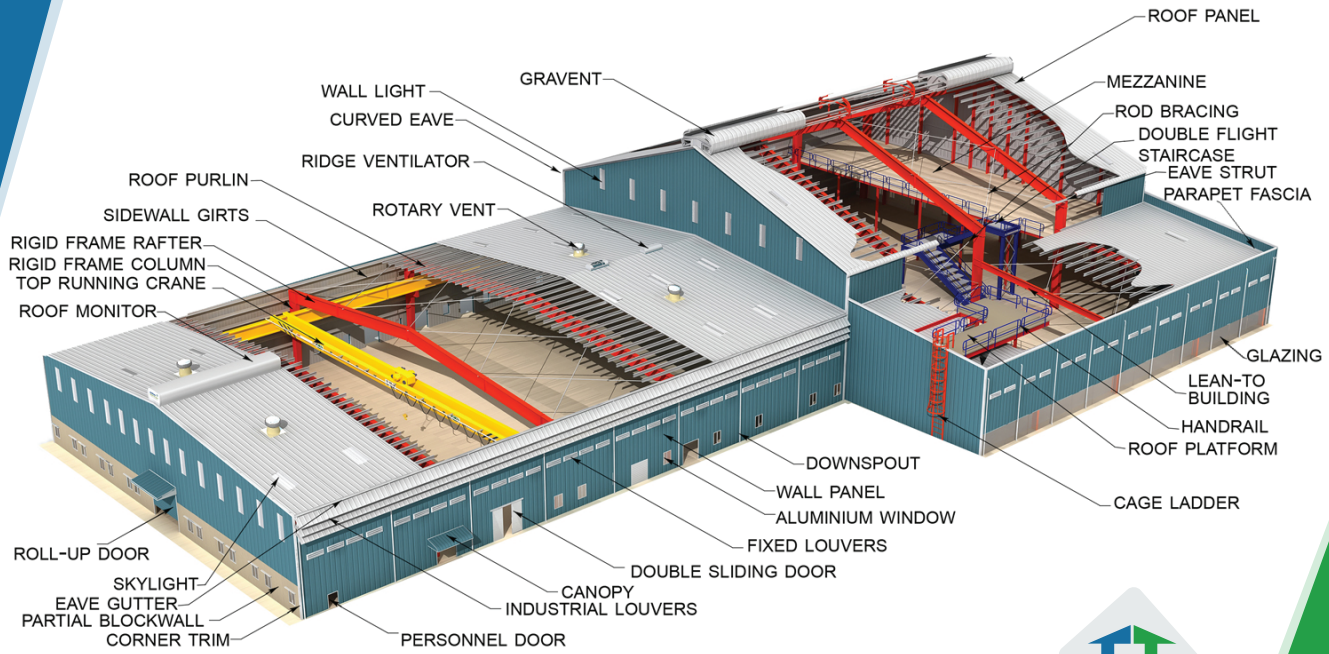




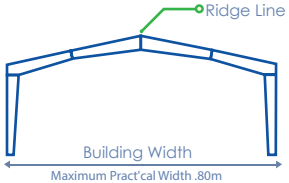
ACCESSORIES

Accessories consists of Structural fasteners, Sheeting fasteners, Washers, Sag rods, bracing rods, insulation etc.

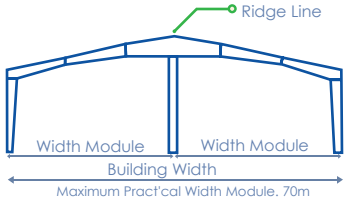




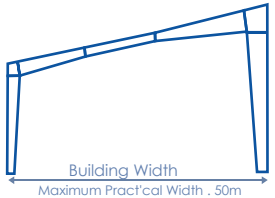
VARIOUS PROFILES IN PEB BUILDINGS



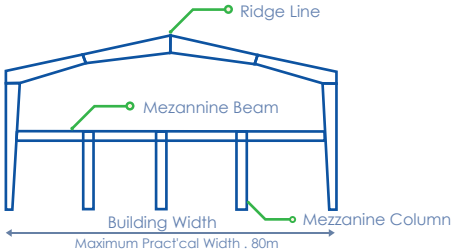
SINGLE SPAN



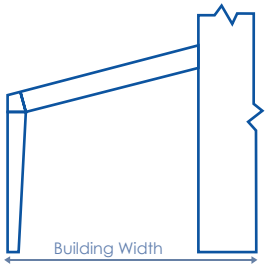
MULTI SPAN



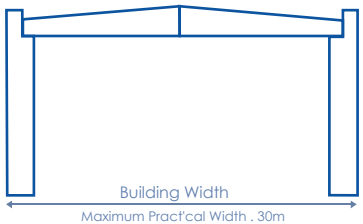
SINGLE SLOPE



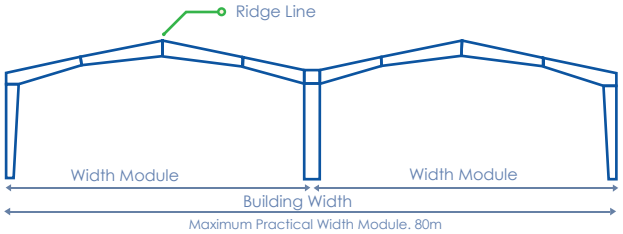
MEZZANINE



LEAN TO ROOF



ROOFING SYSTEM

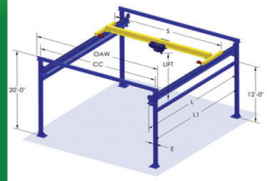


MULTI GABLE

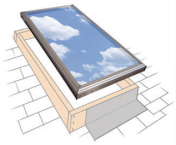
BUILDING ACCESSORIES

DOOR

CRANE SYSTEM



SKY LIGHT



ROLLING SHUTTER

BEADMASTIC

CORNER TRIM DOWN PIPE

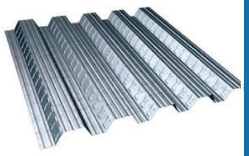
SLIDING DOORS

INSULATION

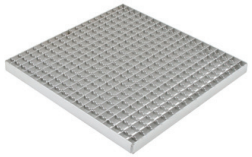
CAGE LADDERS

RIDGE VENTILATOR

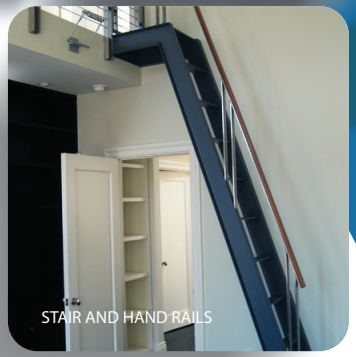
DECKING PANEL



GRATINGS

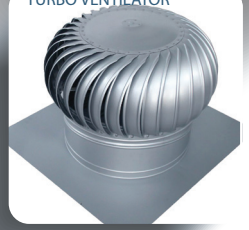


WINDOW



STAIR AND HAND RAILS

TURBO VENTILATOR



OUR PROJECTS

FT Infrastructures

INDUSTRIAL

- FACTORIES
- WORKSHOPS
- WAREHOUSES
- COLD STORES
- CAR PARKING SHEDS
- SLAUGHTER HOUSES
- BULK PRODUCT STORAGE

HEAVY INDUSTRIAL

- CEMENT PLANTS
- STEEL ROLLING MILLS
- SUGAR MILLS
- CERAMIC FACTORIES

INSTITUTIONAL

- SCHOOLS
- EXHIBITION HALLS
- HOSPITALS

COMMERCIAL

- SHOWROOMS
- DISTRIBUTION CENTERS
- SUPERMARKETS
- RESTAURANTS
- OFFICES
- SERVICE STATIONS
- SHOPPING CENTERS

RECREATIONAL

- GYMNASIUMS
- THEATERS
- AUDITORIUMS
- SPORTS HALLS
- SWIMMING POOL ENCLOSURES
- INDOOR TENNIS COURTS

AVIATION & MILITARY

- AIRCRAFT HANGERS
- ADMINISTRATION BUILDINGS
- RESIDENTIAL BARRACKS
- SUPPORT FACILITIES

AGRICULTURAL

- POULTRY-DAIRY FARMS
- GREENHOUSES
- GRAIN STORAGE
- ANIMAL CONFINEMENT
- PUMP STATIONS

OUR FACILITIES




DESIGN TEAM
We have well experienced and Highly Qualified Engineers as our design and detailing engineers.

ERECTION TEAM
We have our Erection engineers and their team as best in the field with vast experience spreaded all over India.

FABRICATION AREA
We have well equipped fabrication facility with skilled Supervisors, Fabricators and most modern machineries at Palakkad kerala.

CIVIL ENGINEERING TEAM
We have well experienced team of engineers in designing and execution with all machineries to undertake
all nature of civil works

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OUR CLIENTS

LuLu, Royal Enfield, Ford, Nissan, Ashley Alteams, MIL Controls Limited, vithayathil paints, L&T, Al Reyami Group, Synthite, Premier, Kobelco, Inkel Limited, Emmay Logistics, Leitner Shriram Manufacturing Ltd., Craftsman Automation, Carnival Cinemas, Fair Exports (India) Private Limited