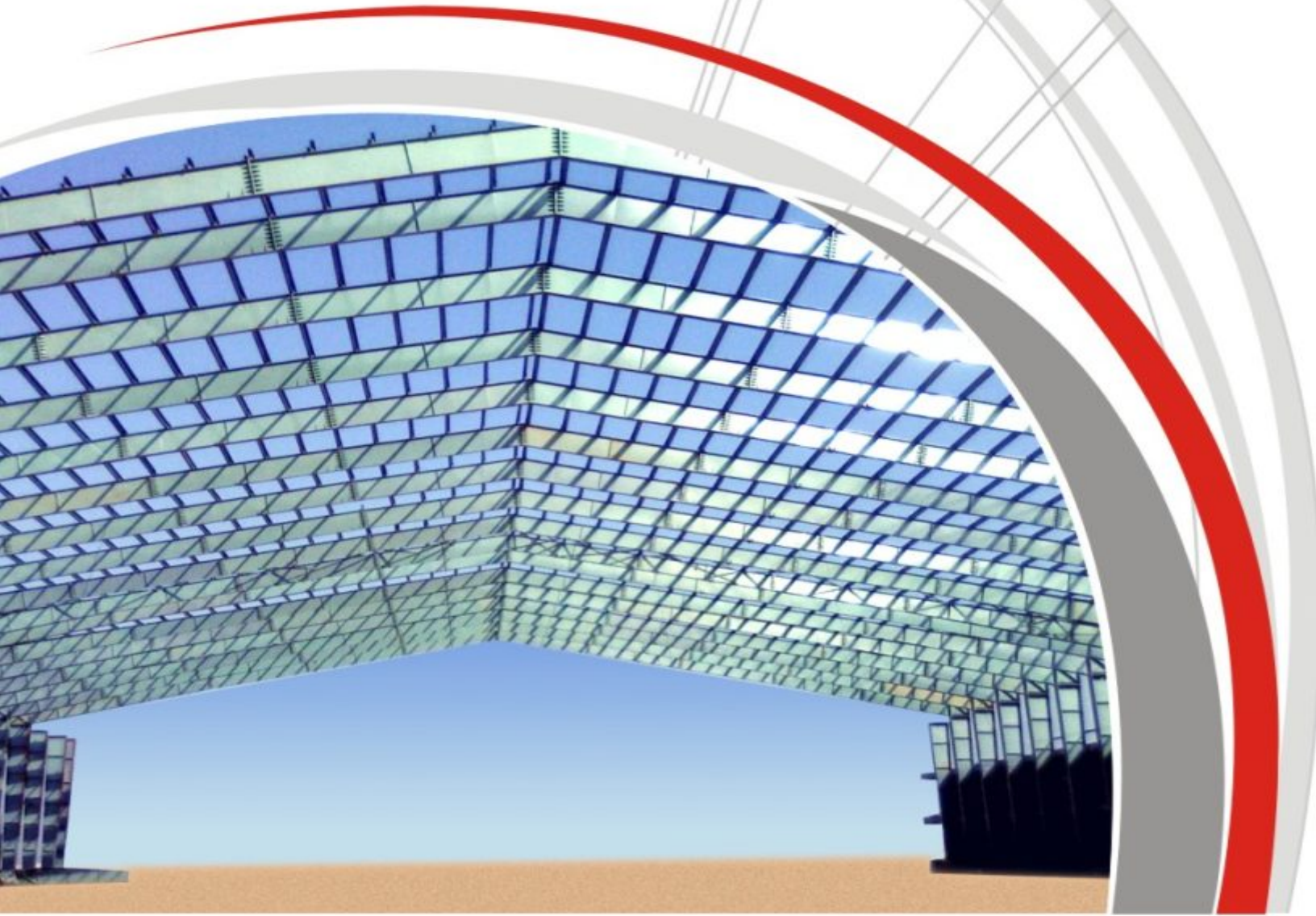


PRE ENGINEERED BUILDINGS



**Modern
Prefab Systems Pvt. Ltd.**

Delivering Quality on time...

Ever Since the industrial and commercial revolution in the country, need for economical and affordable constructions has become a priority. One of the revolutionary concepts for catering this demand is Pre Engineered Buildings.

Pre Engineered Steel Buildings (PEB) revolutionized the construction market using built ups in place of conventional hot rolled sections. Pre Engineered buildings is a steel structure built over a structural concept of primary members, secondary members and cover sheeting connected to each other. The structural members are custom designed to be lighter in weight as well as high in strength. Pre Engineered Steel buildings can be fitted with different structural additions like trusses, mezzanine floors, fascias, canopies and crane systems as per user requirements.

THE MOST NOTABLE ADVANTAGES OFFERED BY MODERN PRE ENGINEERED BUILDINGS ARE:

- » Economical Construction
- » Earth Quake Resistance
- » Fast Construction Time
- » Ease for Future Expansions
- » Low Maintenance Cost
- » Unique Aesthetic Appeal
- » Infinite Choice of Layouts
- » Large Clear Spans

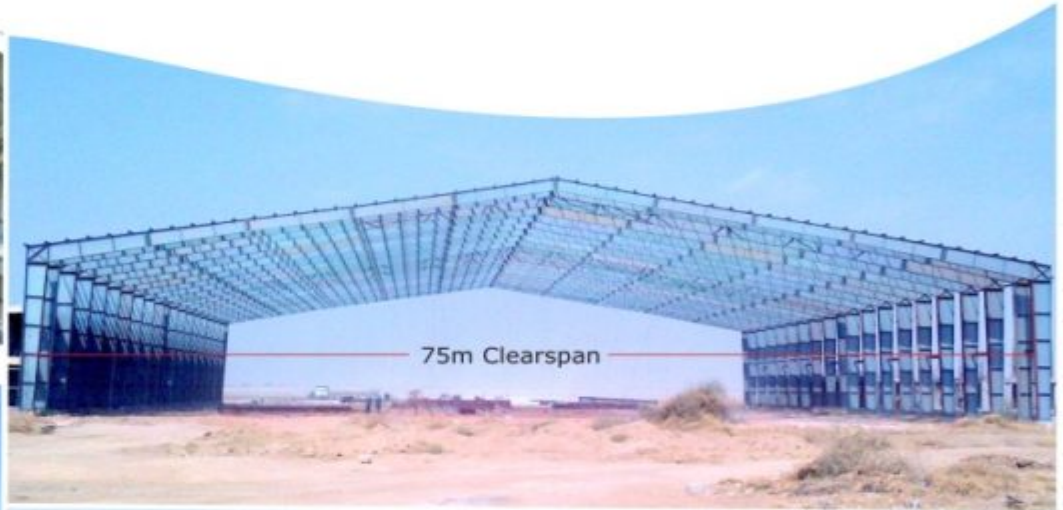
PRODUCT APPLICATIONS

- » Factory Buildings
- » Ware Houses
- » Workshops
- » Distribution Centers
- » Showrooms
- » Aircraft Hangars
- » Schools
- » Sports Complex
- » Industrial Sheds
- » Car Parking Sheds
- » Cold Storages
- » Malls & Super Markets
- » Office Buildings
- » Multi Storied Buildings
- » Community Centers
- » Petrol Pumps
- » Metro & Railway Stations





Elevated Delhi Metro Stations



FRAMING SYSTEMS

Some of the most common primary framing systems are shown below, asymmetrical framing system and multi span framing system with unequal width module are also possible, but may require more engineering time and possibly longer deliveries.

PRIMARY MEMBERS

Primary members consists of columns, rafters, beams etc. These are fabricated from high strength HR Plates. Plates are cut to size using Hi Tech CNC, Plasma and Oxy Cutting machines, which are installed in our factories. Built up sections are made from these plates in automatic beam welding line by submerged Arc welding (SAW).

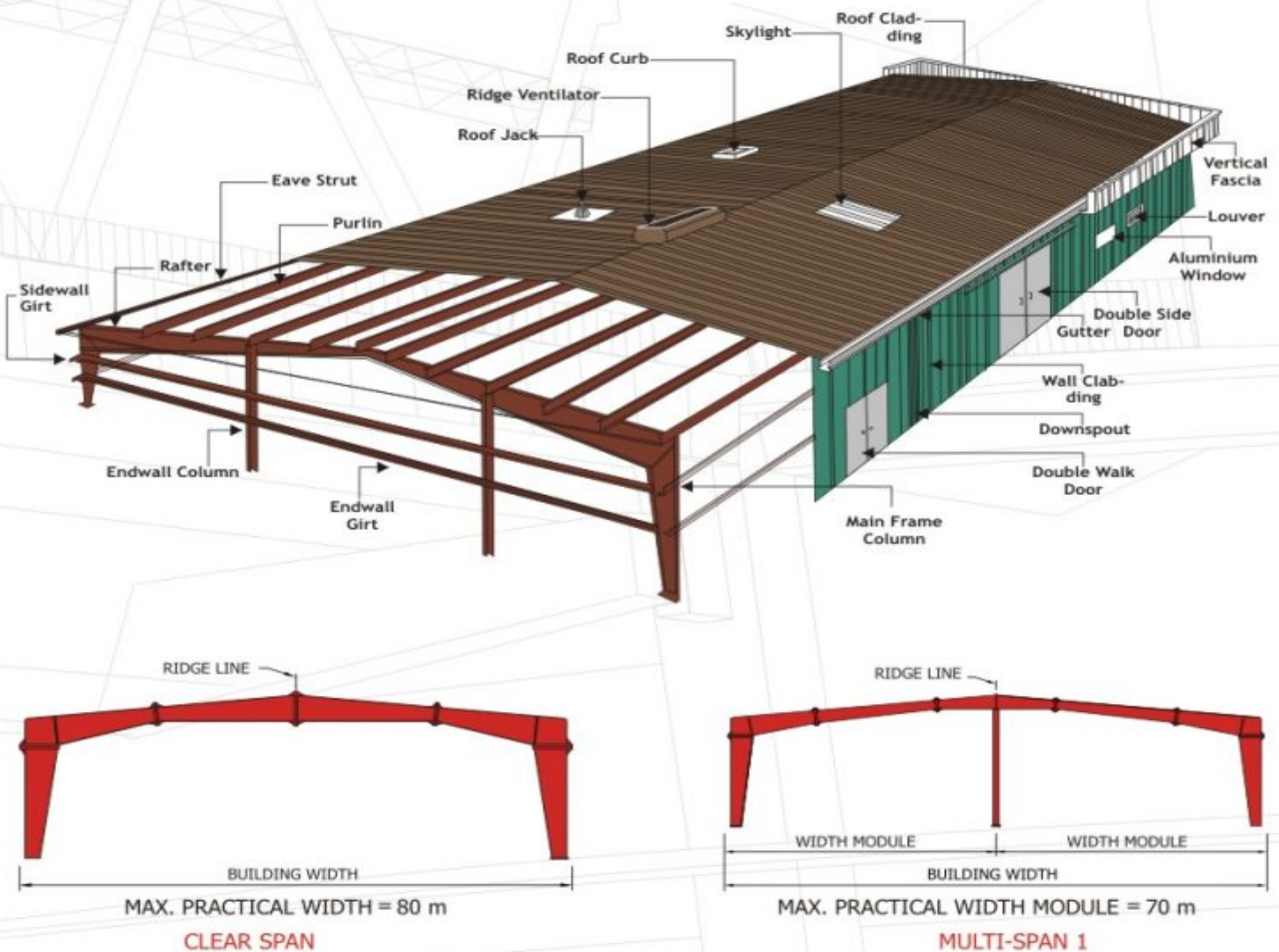
SECONDARY MEMBERS

Secondary Members used in PEB include purlins, side runners, eave struts, fascia channels, door, window, rafters stays, bracings etc.

Purlines and girts are cold rolled formed light gage Z sections varying in depth from 180 to 300 mm and in thickness from 1.5 mm to 2.5 mm as per design requirements.

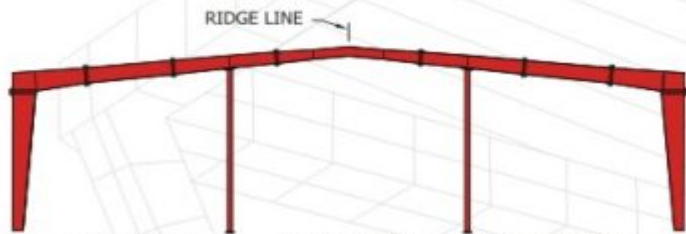
All primary connection fasteners will be with high strength bolts conforming to the physical specification to the ASTM A325 or equivalent.

The fasteners for the cladding / roofing includes GI self tapping screws/ GI Self drilling screws in varying sizes to suit the roofing / cladding requirements. These accompanied with neoprene or EPDM washers to obtain long services and maximum weather resistance.

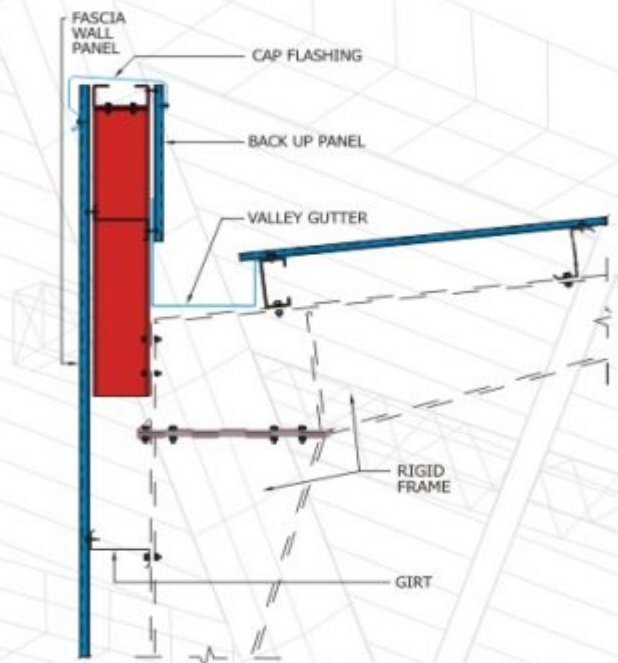




BUILDING WIDTH
 MAX. PRACTICAL WIDTH = 50 m
 SINGLE SLOPE

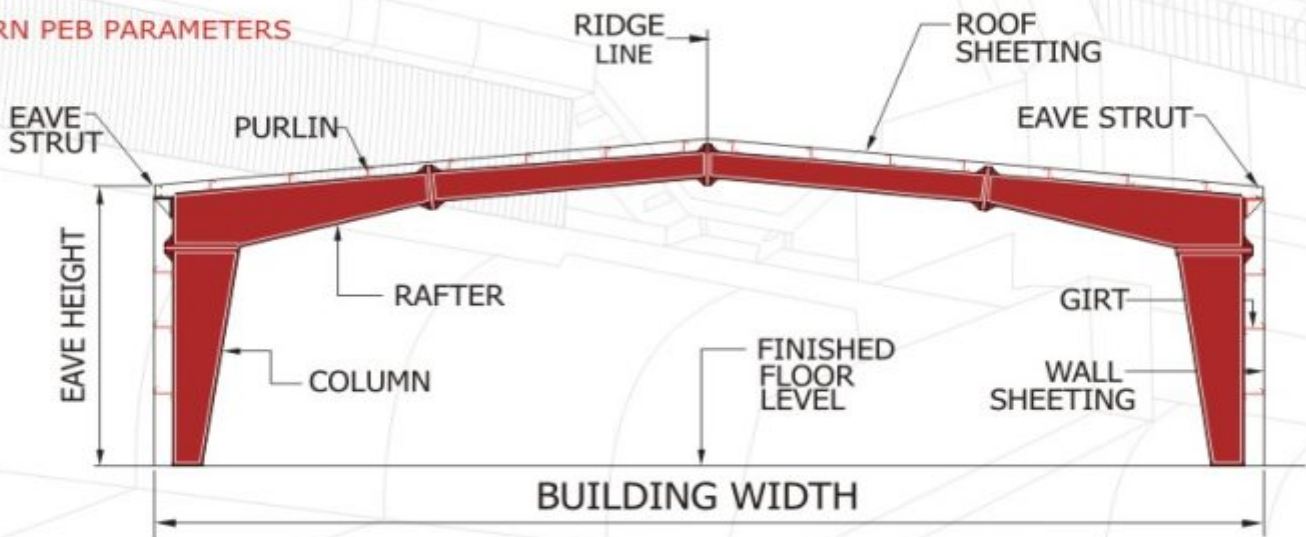


RIDGE LINE
 WIDTH MODULE
 BUILDING WIDTH
 MAX. PRACTICAL WIDTH MODULE = 70 m
 MULTI SPAN 2

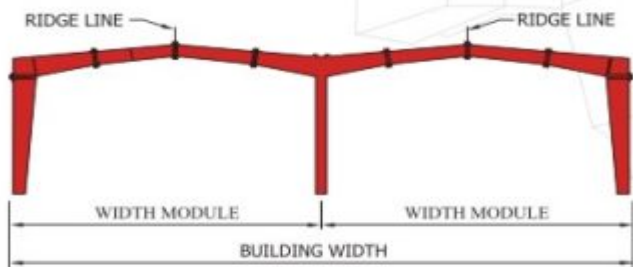


FASCIA WALL PANEL
 CAP FLASHING
 BACK UP PANEL
 VALLEY GUTTER
 RIGID FRAME
 GIRT
 PARAPET FASCIA

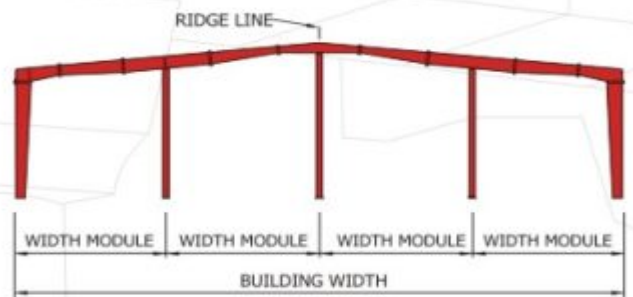
MODERN PEB PARAMETERS



RIDGE LINE
 ROOF SHEETING
 EAVE STRUT
 PURLIN
 RAFTER
 GIRT
 EAVE HEIGHT
 COLUMN
 FINISHED FLOOR LEVEL
 WALL SHEETING
 BUILDING WIDTH

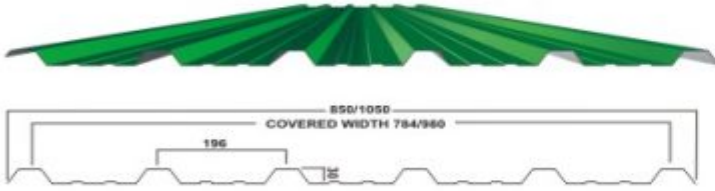


RIDGE LINE
 WIDTH MODULE
 BUILDING WIDTH
 MAX. PRACTICAL WIDTH MODULE = 80 m
 MULTI GABLE



RIDGE LINE
 WIDTH MODULE
 BUILDING WIDTH
 MAX. PRACTICAL WIDTH MODULE = 70 m
 MULTI SPAN 3

ROOF SHEET



DECK™ SHEET



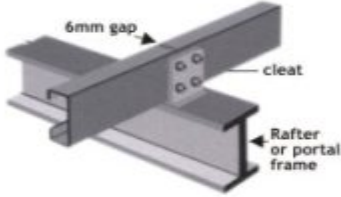
DAY LIGHT PANEL



LOUVER



ROOF VENT



FORWARD & REVERSE CRIMP



CRIMP™



METCO-PULINS

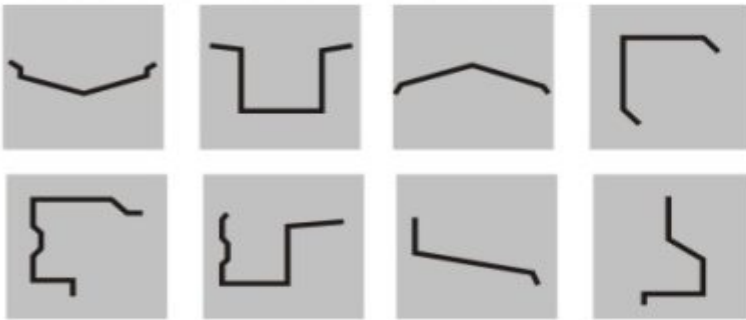
C- CHANNEL



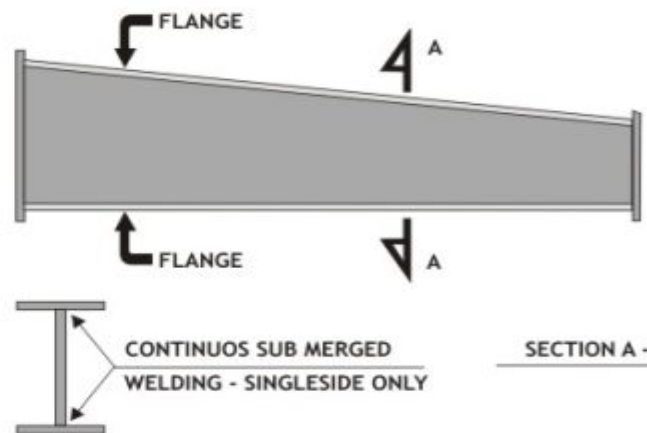
Z- PURLIN



TYPES OF FLASHING, TRIMS AND GUTTER



TAPERED BUILT UP SECTION



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