



LET'S BUILD!

PEB STRUCTURE • HEAVY DUTY • WAREHOUSES
INDUSTRIAL SHED • COMMERCIAL STEEL BUILDINGS



Maruti Infraeng LLP specializes in pre-engineered metal building systems (PEB), which deliver end-to-end solutions from design to construction. Our expert engineers use advanced tools and global standards to create strong, visually appealing and cost-effective structures.

With ISO certification and a proven track record, we are known for reliability, technical expertise, and client-focused service. From concept to completion, we ensure durable, leak-proof, high-quality results.

Maruti Infraeng LLP is preferred for innovative design, unmatched expertise and a commitment to excellence.



VISION

Our vision is to reach a turnover of 1000 crore and expand our team to 120 professionals, offering unmatched service across Gujarat by April 1, 2030.



MISSION

We aim to be the first choice for businesses looking for sustainable and advanced construction systems.



VALUES

Innovative and good quality, sustainability, transparency

OUR EXPERTISE



Inspiring Building Concepts

At Maruti Infraeng LLP, we blend creativity with practicality, designing tailored solutions that balance functionality, scalability, and budget to meet each project's unique needs.



Creative Structural Solutions

We specialize in designing innovative Pre-Engineered, hot rolled, and light gauge steel buildings. Using advanced software and expert engineers, we deliver cost-effective, durable solutions with detailed schematics and compelling visuals, all while upholding a commitment to excellence.



Prompt Steel Structure Delivery

At Maruti Infraeng LLP, exceeding client expectations is our standard. With over 97% of projects delivered on time, we ensure swift site delivery in an average of 8 weeks, with 75% of projects completed in just six weeks.



Accurate And Efficient Erection

At Maruti Infraeng LLP, precision and efficiency drive our steel structure erection process. With supplier-led installation and an expert team of managers, supervisors, and specialists, we ensure seamless execution from supply to assembly, delivering projects with cost-efficiency and flawless results.



Seamless Project Management

At Maruti Infraeng LLP, we blend creativity with practicality, designing tailored solutions that balance functionality, scalability, and budget to meet each project's unique needs.

DIFFERENCE BETWEEN PEB & CONVENTIONAL BUILDING

Pre-engineered Building (PEB)

Quick to construct with prefabricated components assembled onsite, reducing construction time by up to 50%.

More cost-efficient with standardized components and reduced labour costs, minimizing waste.

Offers customization with advanced software, perfect for commercial and industrial spaces.

Uses lightweight steel for optimal strength and load support.

Eco-friendly, minimal waste, and recyclable materials.

Low maintenance and durable with corrosion-resistant materials.

Vs

Conventional Building

Slower due to sequential, onsite fabrication, leading to potential delays.

Higher costs due to labour-intensive processes and increased material waste.

Allows unique designs but adds complexity, time, and cost.

Heavier with more steel and concrete, often less efficient in load distribution.

More waste and a larger carbon footprint.

May need frequent maintenance, increasing long-term costs.

CONSTRUCTION SPEED

COST EFFECTIVE

DESIGN FLEXIBILITY

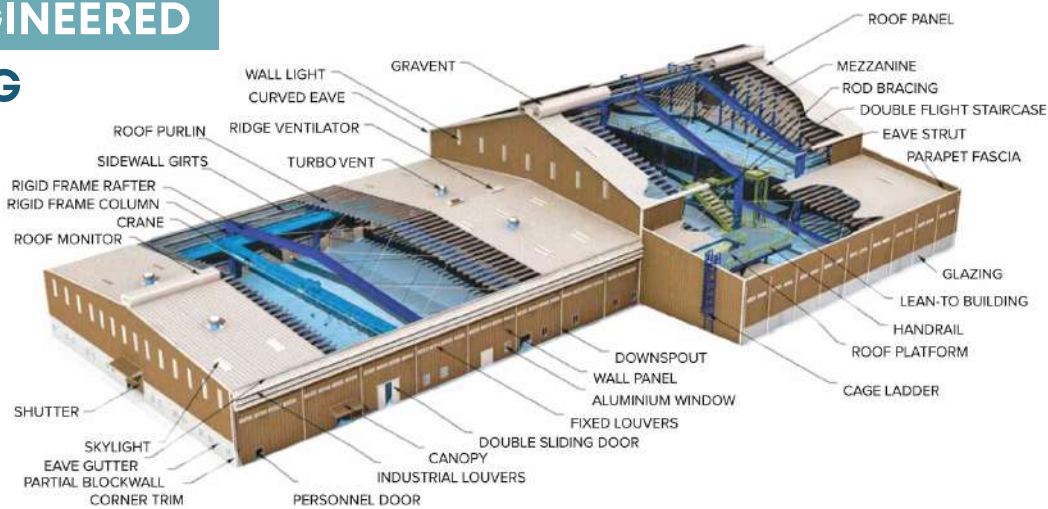
STRUCTURAL EFFICIENCY

SUSTAINABILITY

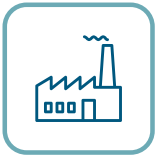
MAINTENANCE AND DURABILITY

In today's scenario, where speed, cost, and sustainability are key, PEB systems offer significant benefits over conventional buildings, especially for projects with tight timelines and eco-friendly goals.

PRE-ENGINEERED BUILDING



PEB LIMITLESS POSSIBILITIES



Factories



Warehouses



Workshops



Offices



Showrooms



Bridges



Railway
platform shelters



Aircraft
hangers



Indoor
stadium roofs



Institutional
buildings



Sports
complexes



Outdoor
stadium canopies

CODE USING

FOR STEEL DESIGN

Maruti Infraeng LLP adheres to the latest U.S. and Indian codes, including IS, AISC, IBC, and relevant international standards for PEB analysis, design, and fabrication. Our engineers leverage advanced software like STAAD PRO and Tekla Structures for efficient and economical section design. We offer flexible options for built-up and E250/E350 MS plates, tailored to design needs and client specifications. PEB constructions are available in various steel grades (250/350 MPa Ys) and customizable sizes and shapes.

AISC: American Institute of Steel Construction Manual.

AISI: American Iron and Steel Institute

MBMA Labsz: Metal Building Manufacturer's Association Low Rise Building Systems Manual.

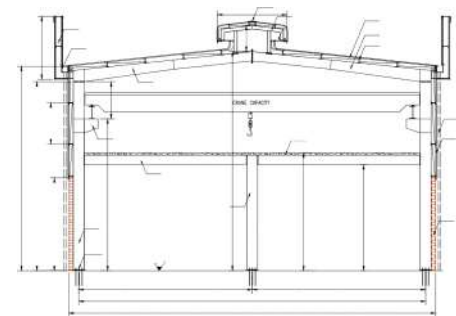
ANSI: American National Standards Institute

ASCE: American Society of Civil Engineers

UBC: Uniform Building Code

IS: Indian Standards.

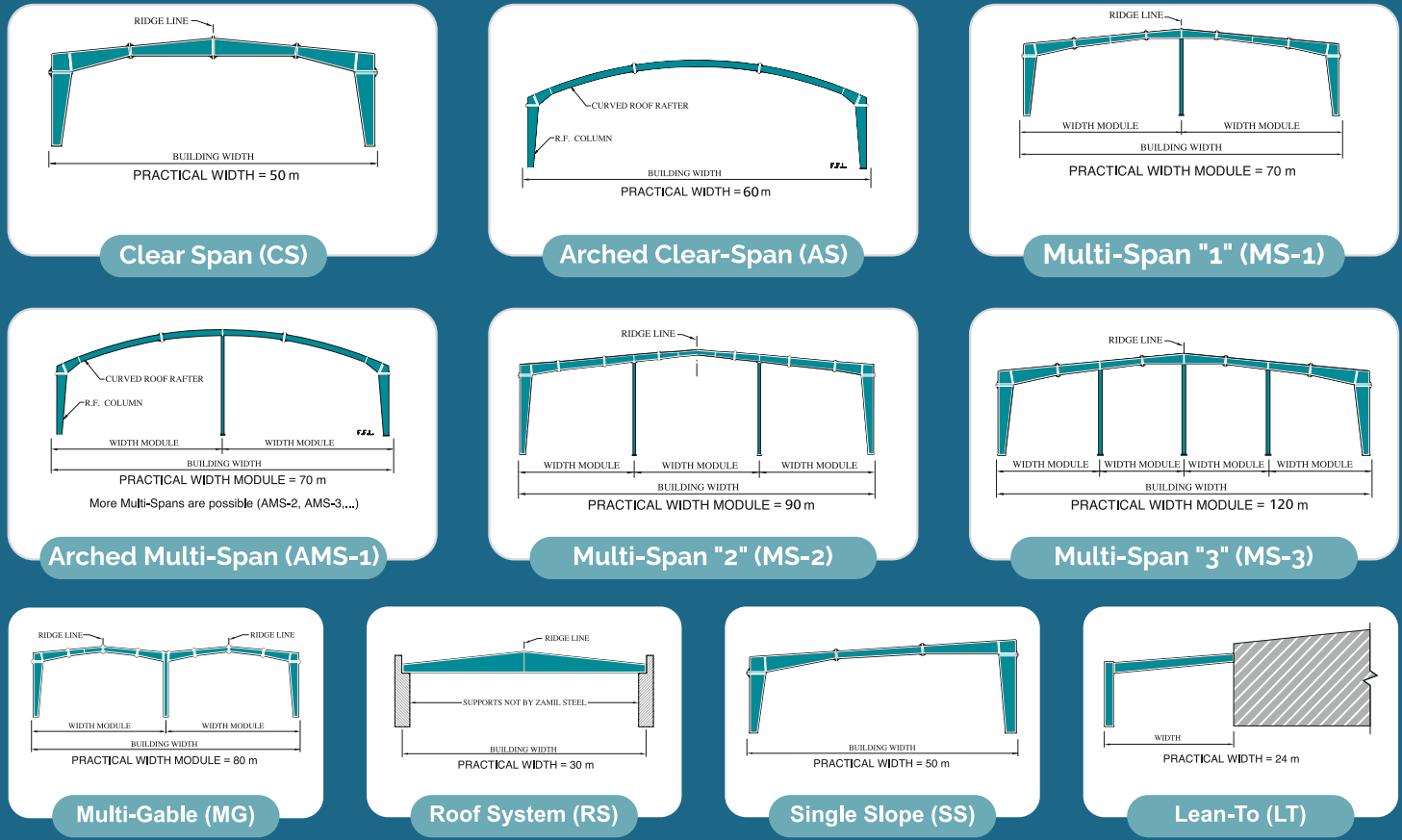
NBC: National Building Code



PRIMARY FRAMING

Primary framing consists of all structural elements which transfer load to the foundation and comprise of:

- Rigid/Intermediate frames
- Wind bracing
- End wall frames
- Mezzanine beams and joists
- Crane brackets

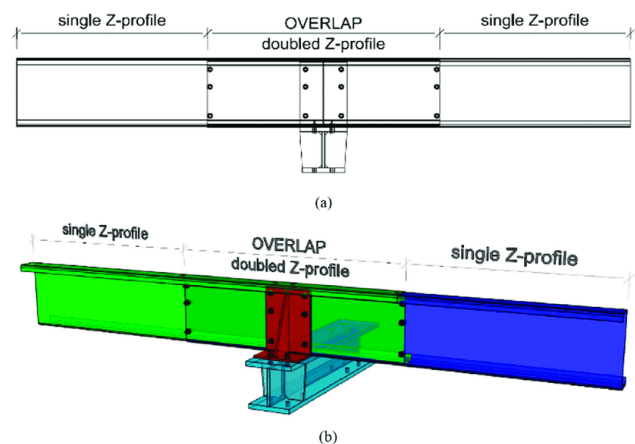


SECONDARY FRAMING

Secondary framing in Pre-Engineered Buildings (PEBs) provides structural support by distributing loads from the roof and walls to the primary framing. It enhances the building's stability, ensures load transfer efficiency, and improves overall durability against environmental forces.

SECONDARY MEMBERS

Secondary framing components within the domain of Maruti Infraeng LLP's Pre-Engineered Building (PEB) solutions predominantly encompass longitudinal roof and wall members formed by rolling galvanized coils. These auxiliary elements include steel purlins, side runners, fascia channels, door posts, window posts, rafter stays, column stays, base angles, and various other structural elements.

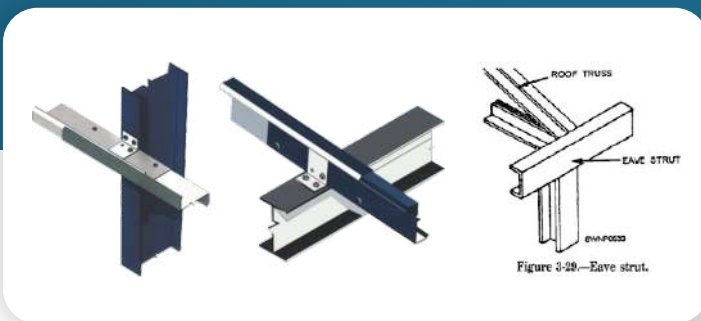


Roof Purlins

Characterized by pre-punched cold-formed sections, typically adopt a "Z" configuration with depths ranging from 150mm to 250mm, featuring stiffened flanges. They are affixed to the outer (top) flanges of rafters, with lapping implemented at all interior frames across Maruti Infraeng LLP's diverse structural framing systems.

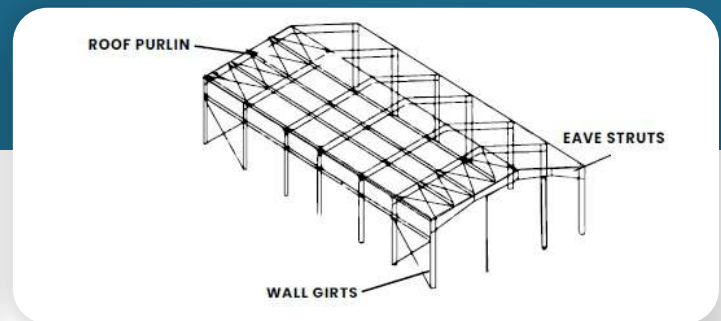
Wall Girts

Similarly cold-formed from hot-rolled steel coils, manifest in "Z" shapes with thicknesses ranging from 1.5 mm to 3.0 mm, and "C" shapes with thicknesses of 2.0 mm and 2.5 mm (lipped channels). In clear span (CS) and Multi-span (MS) constructions, sidewall girts are attached (bypassed) to the outer flanges of exterior columns, with lapping extending across all interior frames.



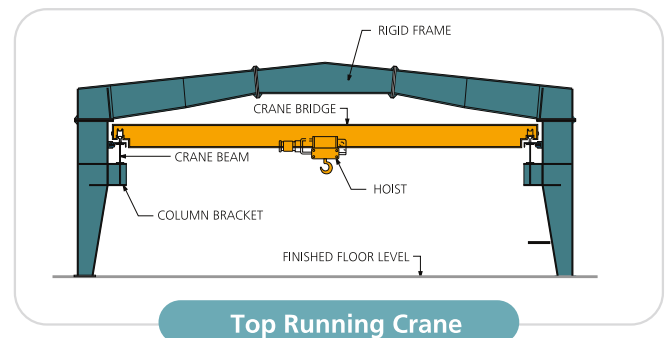
Save Struts

Featuring pre-punched cold-formed "C" shaped sections, boast a depth of 180 mm with 85 mm stiffened flanges. In addition to their role as longitudinal structural bracing members, eave struts facilitate seamless transitions between walls and roof sheeting within the context of Maruti Infraeng LLP projects.



Crane Beam System

Pre-Engineered Buildings (PEB) are meticulously done with seamlessly incorporate essential Crane Systems. Our solutions feature Electric Overhead Traveling (EOT) cranes with a capacity of up to 15 metric tons, adeptly supported by brackets. Furthermore, for heavier loads, we deploy a specialised independent support system to ensure optimal functionality and safety.



Standard Supply

- **FIXINGS:** Includes all necessary components for structural integrity.
- **FINISH:** Standard finish with shot blast SA 2.5 and shop primer at 80 microns.
- **CALCULATIONS:** Thorough static calculations for safety and compliance.
- **DRAWINGS:** Precise Erection drawings for efficient assembly.

Advantages

- Seamless integration into build tree buildings.
- Single-source supply for crane beams and buildings.
- Optimization of bay spacing and crane beam span.
- Integrated design of the crane rail beams within the building.

Feature

- Heavy-duty rails ensure robust performance.
- Laminated rails facilitate easy replacement of the crane rail, ensuring maintenance efficiency.
- Continuous welding of crane rail to crane beam enhances structural integrity.
- End stops, excluding rubber buffers, provide precise positioning and safety.

Technical Specification

- Standard crane capacity: ≤ 15 tons
- Standard crane span: < 25 m
- Beam span: 6 to 9m bay spacing, with a limit of 8m for crane capacity above 12.5 tons, ensuring optimal configuration for varied requirements.
- Each crane beam supports one crane, with provision for additional spacers to maintain design integrity in cases of multiple cranes.
- Crane types: I (single girder) and II (double girder), offering versatility to suit different operational needs.

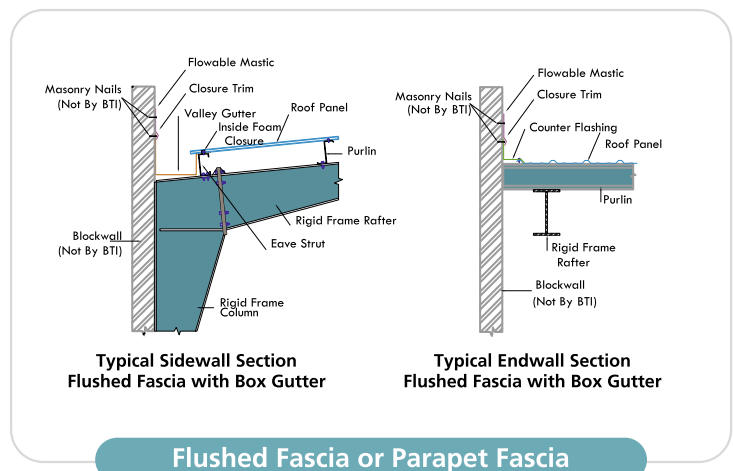
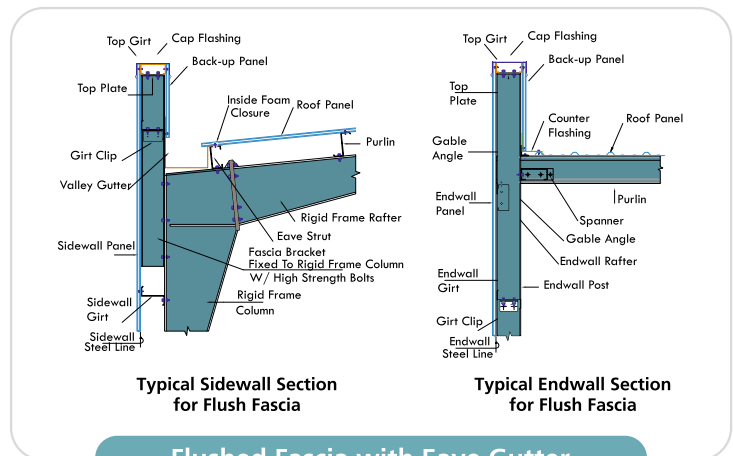
Mezzanine System

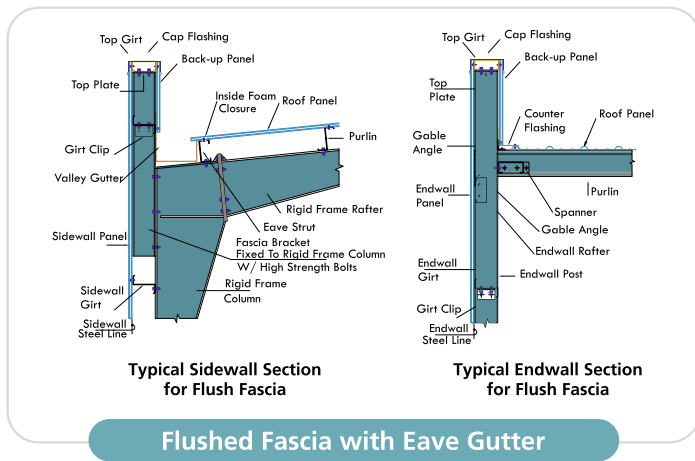
At Maruti Infraeng LLP, our mezzanine framing systems feature a steel deck supported by joists connected to primary beams, with optional intermediate columns for added strength. The embossed deck sheet ribs improve traction and bond with concrete, enhancing safety and reinforcement without traditional formwork. This durable system simplifies operations by removing the need for timber or steel formwork, while the clean, ribbed underside offers an attractive finish, eliminating extra ceiling work. MS deck sheets support various floor loads, reinforced with concrete for superior stability.

Jack Beam

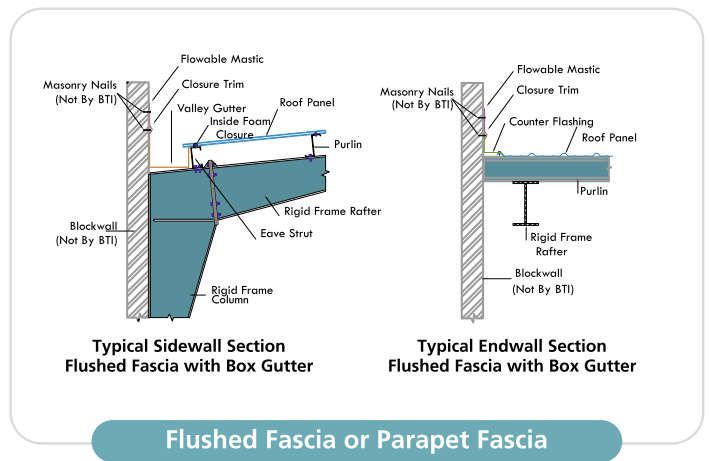
Jack beams represent a strategic solution for Maruti Infraeng LLP, offering both economic viability and safety in the creation of longer bay lengths, particularly in spaces necessitating significant unimpeded area. Through the implementation of jack beams, common bay lengths (7.5 to 10m) can be effectively doubled, enabling the realisation of clear bay lengths spanning 15 to 20 meters. This innovative approach empowers us to tailor configurations to meet specific client preferences, accommodating requests such as a 15.0 - meter bay length instead of the standard 7.5 meters, all while upholding structural integrity. Whether integrated into interior or exterior walls, jack beams serve as a versatile tool for optimising spatial design in construction projects undertaken by Maruti Infraeng LLP.

Fascia System



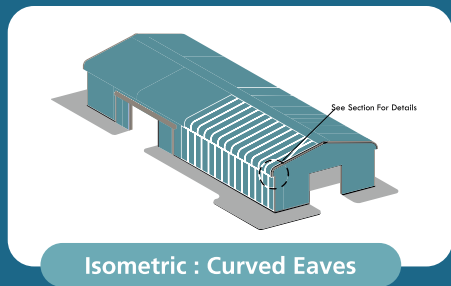


Flushed Fascia with Eave Gutter

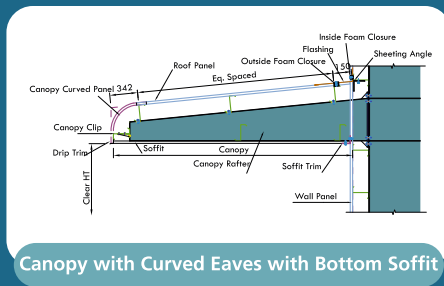


Flushed Fascia or Parapet Fascia

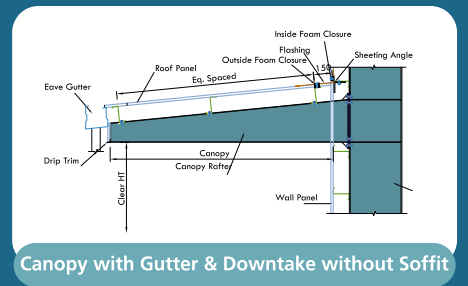
Canopy & Eave



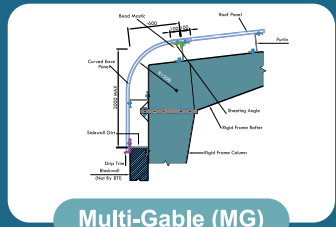
Isometric : Curved Eaves



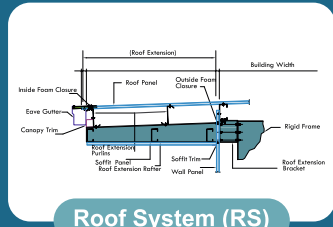
Canopy with Curved Eaves with Bottom Soffit



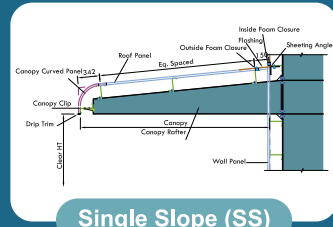
Canopy with Gutter & Downtake without Soffit



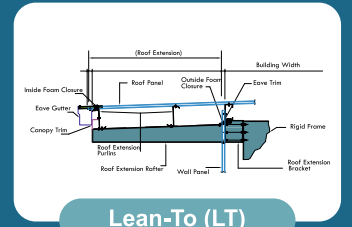
Multi-Gable (MG)



Roof System (RS)



Single Slope (SS)



Lean-To (LT)

Hi-Rib Profitable Sheet

The Hi-Rib profile offered by Maruti Infraeng LLP boasts a flawless overlap, guaranteeing exceptional weather protection alongside anti-capillary fluid and corrosion resistance. This meticulously crafted design not only enhances the visual appeal but also underscores cost efficiency, aligning perfectly with Maruti Infraeng LLP's commitment to quality and value in construction solutions.

Deck Sheet Profile

Decks fulfill dual roles within composite floor systems and as permanent formwork, deriving strength from their composite design. Steel decking offers enduring form support by virtue of its positive reinforcement.

Technical Specification

Supply Width	: 1060 ± 5 mm
Covered Width	: 1020 ± 5 mm
Pitch	: 200 ± 3 mm
Crest	: 28 ± 2 mm
Length	: Max 20 mtr
Thickness	: 0.30 mm to 0.80

Technical Specification

Supply Width	: 910 ± 7 mm
Covered Width	: 960 ± 7 mm
Length	: Max 12 mtr
Thickness	: 0.60 mm to 2.00 mm
Depth	: 44 ± 1 mm
Pitch	: Centre to Centre 130 ± 1 mm

TOUR TO OUR FACTORY

H BEAM WELDING MACHINE



A high-precision machine designed for fabricating structural beams used in large-span industrial projects. Ideal for heavy-duty PEB manufacturing.

SPECIFICATIONS :

- Web weight : 200mm to 1500mm
- Web Thickness : 3mm – 12mm
- Flange width : 140mm to 500mm
- Flange thickness : 5–25mm
- Length of suitable Workpiece : 2000mm – 15000mm
- Max weight of workpiece : 10 Ton

CNC PLASMA CUTTING MACHINE



Delivers ultra-precise cuts with minimal material waste, ensuring clean and accurate profiles for structural components.

SPECIFICATIONS :

- Upto 50 mm thick, with bed size of 5000 mm x 20000 mm

TOUR TO OUR FACTORY

AUTO SHOT BLASTING MACHINE



Essential for surface treatment, this machine ensures better coating adhesion and rust removal, increasing longevity of steel parts.

SPECIFICATIONS :

- 10 Wheel & 220 kg/Wheel abrasive flow

CNC SHEARING MACHINE



Provides clean, accurate cuts for sheet metal with high consistency and minimal edge distortion, streamlining fabrication processes.

SPECIFICATIONS :

- Upto 20 mm thick and 6 mtr. long cutting

TOUR TO OUR FACTORY

CNC PUNCHING MACHINE



Engineered for fast, efficient punching of holes with consistent quality across various structural applications.

SPECIFICATIONS :

- Upto 20 & 25 mm Diameter

C / Z PURLIN MACHINE



Custom-designed for manufacturing C and Z section purlins, vital for secondary framing systems in PEB structures.

SPECIFICATIONS :

- 112-16 MT capacity
- 1.2 – 3.15 mm Thickness

TOUR TO OUR FACTORY

ROOF PROFILE MACHINE



Fabricates high-quality, corrugated roofing sheets, ensuring durability, uniformity, and weather resistance.

SPECIFICATIONS :

- 0.5 – 1 mm thickness, Maximum sheet width 1000 mm (after corrugation)
- Roof Profile 30mm corrugated

EOT CRANE



Integrated for safe and efficient material handling within the fabrication unit, reducing downtime and improving workflow.

SPECIFICATIONS :

- 10–20 MT capacity

OUR CLIENTS



PROJECT GALLERY





**PEB STRUCTURE • HEAVY DUTY • WAREHOUSES
INDUSTRIAL SHED • COMMERCIAL STEEL BUILDINGS**

CORPORATE OFFICE

Block No. 189-190, Velachha, Mangrol,
Surat - 394405 Gujarat, India.

CONTACT US

+91 99980 52911 | +91 99980 53911

For more information contact us or visit our website

 info@marutiinfraeng.co.in  www.marutiinfraengllp.co.in