



- Concept
- Design
- Manufacturing
- Erection

**DEDICATION TOWARDS
PERFECTION**
In Pre Engineered Buildings

ABOUT US

Crafting excellence in Pre-Engineered Buildings, Vipul Infra Systems Pvt. Ltd. is an ISO 9001:2008 certified company with a cutting-edge manufacturing facility in Delhi & NCR. We deliver end-to-end turnkey solutions blending design, engineering, and execution with precision.

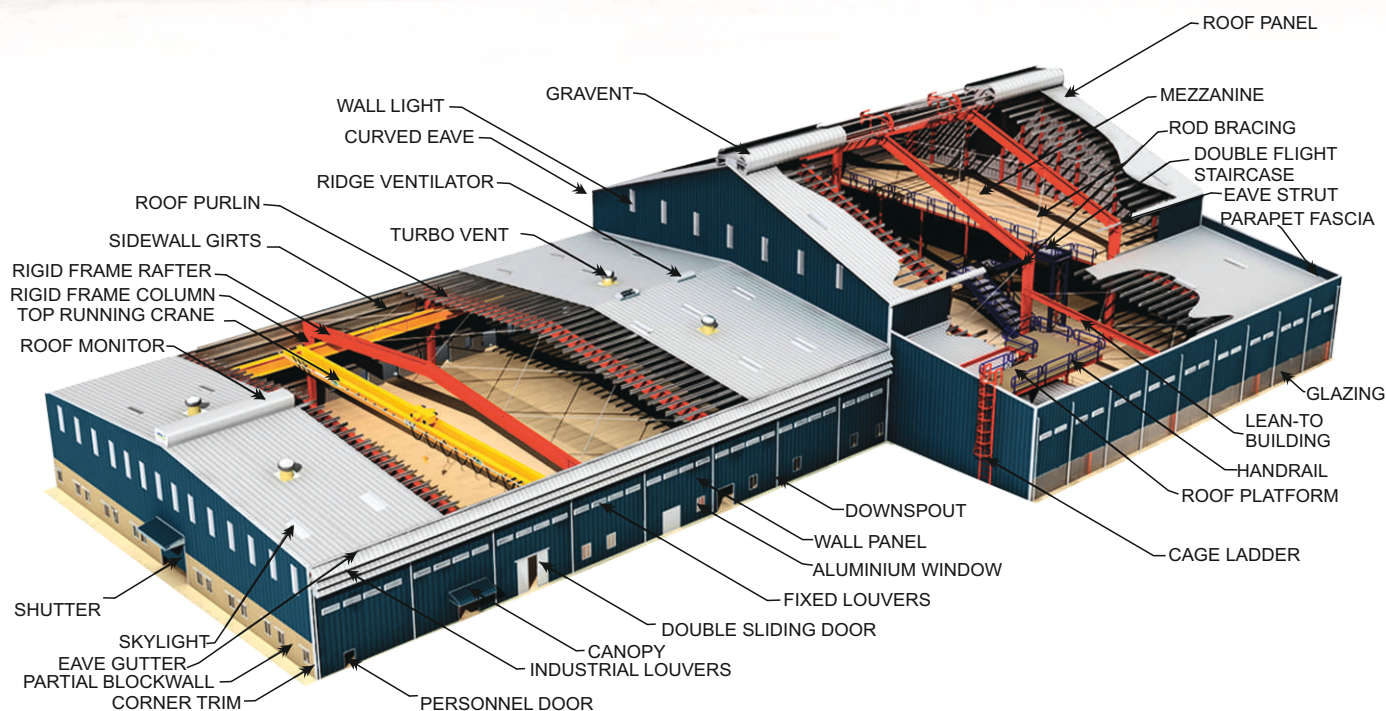
With over 15 years of expertise, we have successfully delivered large-scale industrial projects, powered by advanced automation and international quality standards.

Our solutions are tailored to perfection, integrating modern architectural elements such as mezzanines, canopies, facades, and complete roofing and cladding systems.

Driven by innovation and backed by intelligent design software, we ensure every project is executed with accuracy, efficiency, and timeliness transforming complex requirements into smart, sustainable structures.

PRE-ENGINEERED BUILDING

Vipul Infra's pre-engineered building provides you optimized design of steel there by reducing costs, while meeting all design criteria and requirement with fast and qualitative manufacturing and safe erection



OUR BUILDING INCLUDES

- ▶ All Primary & Secondary Frames
- ▶ All Connections
- ▶ 2 Roof System Options
- ▶ 3 Wall System Options
- ▶ All Fixings
- ▶ All Sealants For Weather-proofing
- ▶ Thermal or Acoustic Insulation
- ▶ Linear Panels
- ▶ EOT Cranes
- ▶ Integrated Accessories
- ▶ Mezzanine Floor
- ▶ Crane Beams and Rails

DESIGN LOADS

DEAD LOADS

Total weight of building and its components, including main frames, purlins, girts, cladding, purlins, girt, cladding, bracing, connections, etc.

LIVE LOADS

Load on structure during erections, maintenance and usage throughout the life time of structure.

WIND LOADS

Load in Kn/m^2 placed on the exterior of a structure by wind. This will depend on (a) Wind Zone (b) Shape of structure.

SEISMIC LOADS

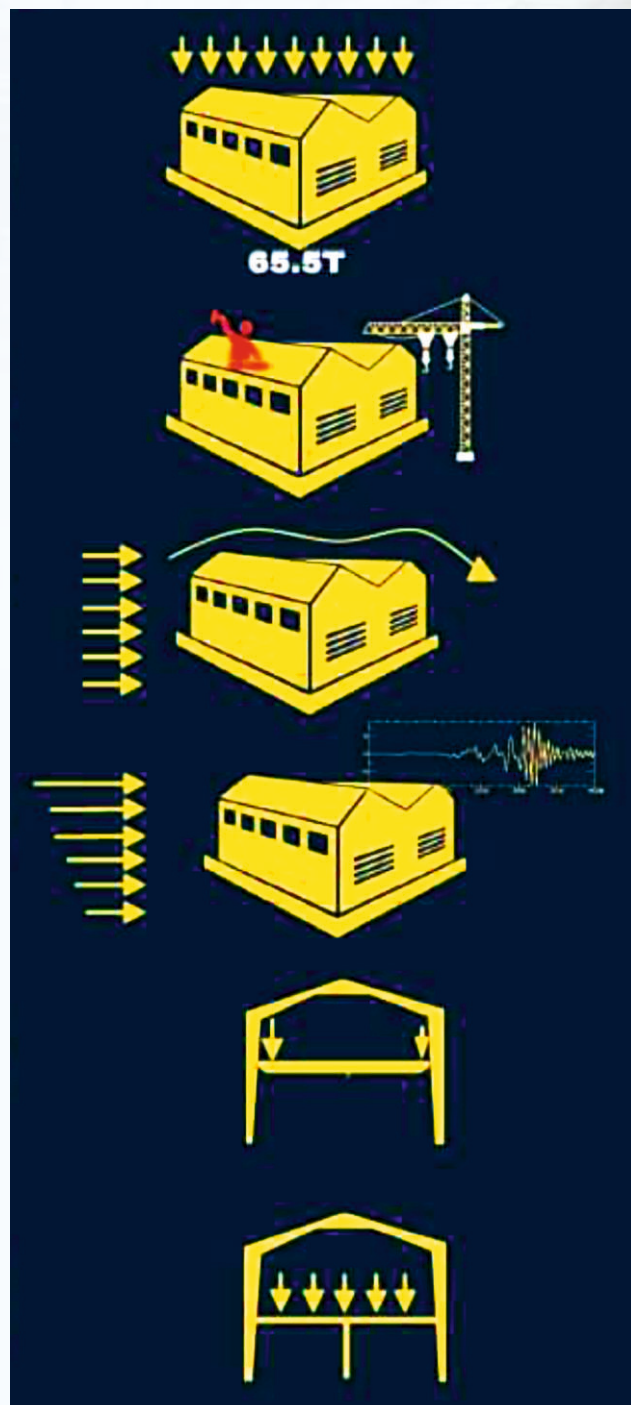
it is caused by earthquake forces and is applied horizontally at the center of mass of the main structure.

CRANE LOADS

Crane loads and their corresponding vertical, lateral and longitudinal impacts are applied in accordance to codes.

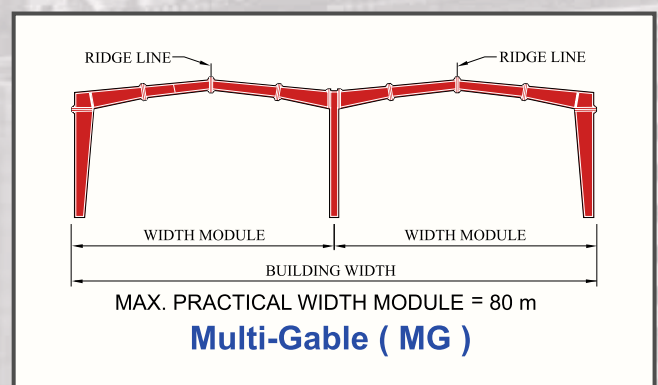
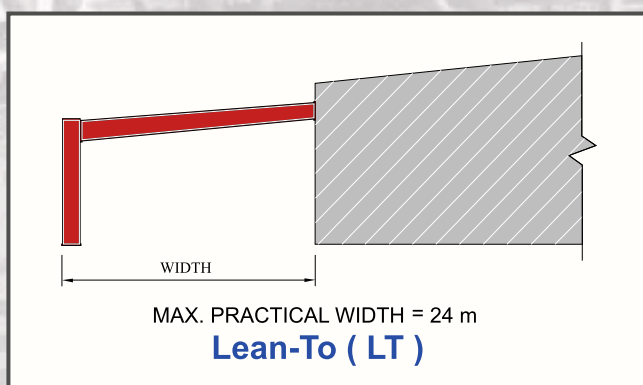
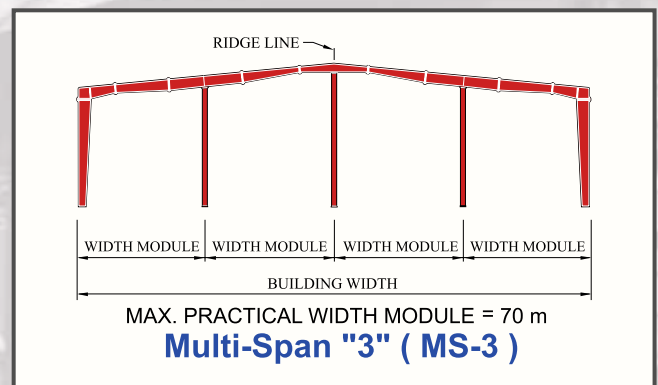
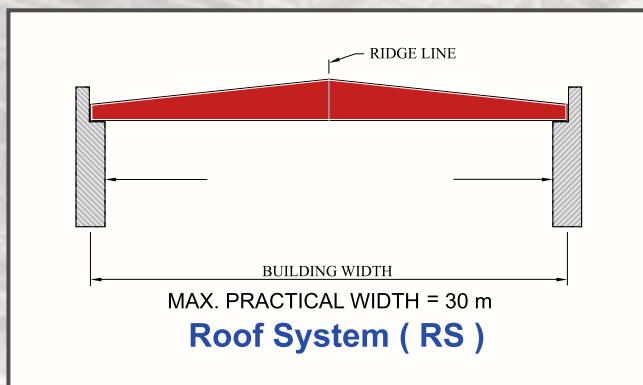
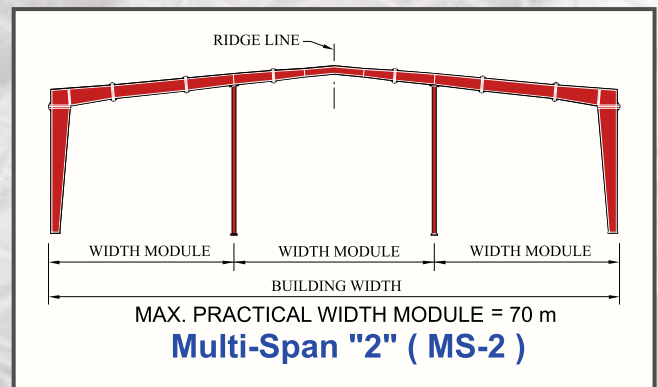
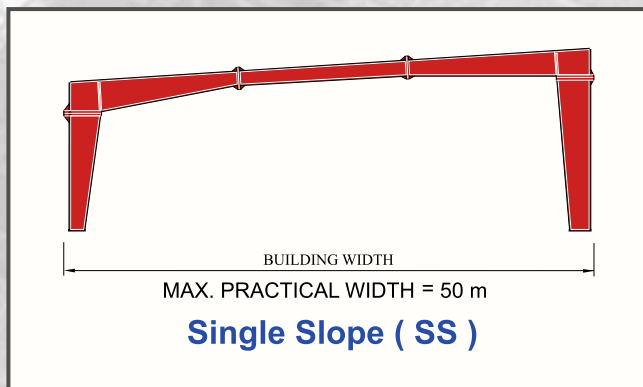
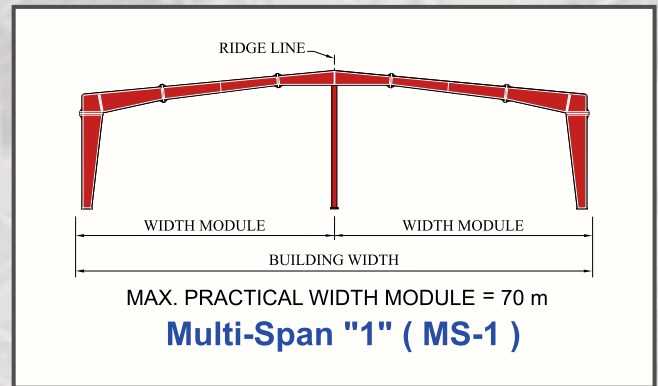
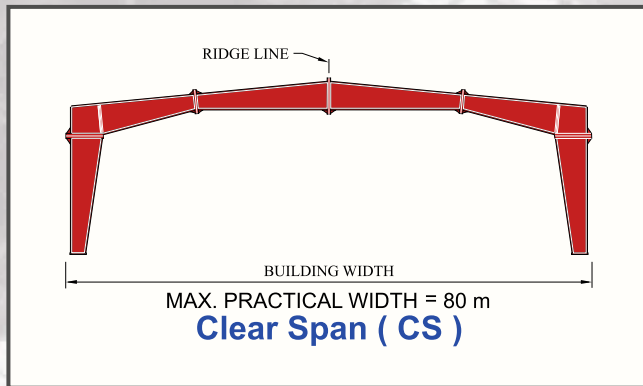
MEZZANINE LOADS

Dead load of mezzanine framing, finishes in addition to the live load applied on the mezzanine according to its occupancy and usage classification.



FRAMING SYSTEM

The most common Framing systems are shown below:



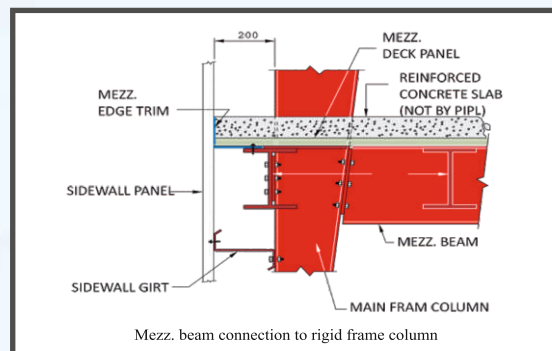
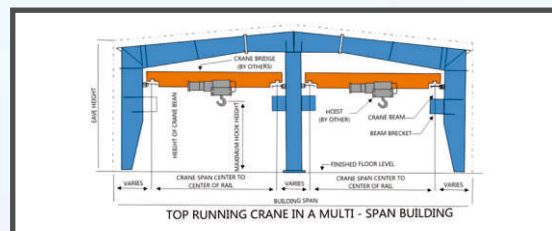
CRANES & MEZZANINES

Cranes in Buildings

Vipul Infra Systems Pvt. Ltd. Pre-engineered buildings can be designed to accept many types of crane systems such as EOT, Monorail, Under-hung cranes and other load carrying devices such as conveyors etc. in all general type of buildings.

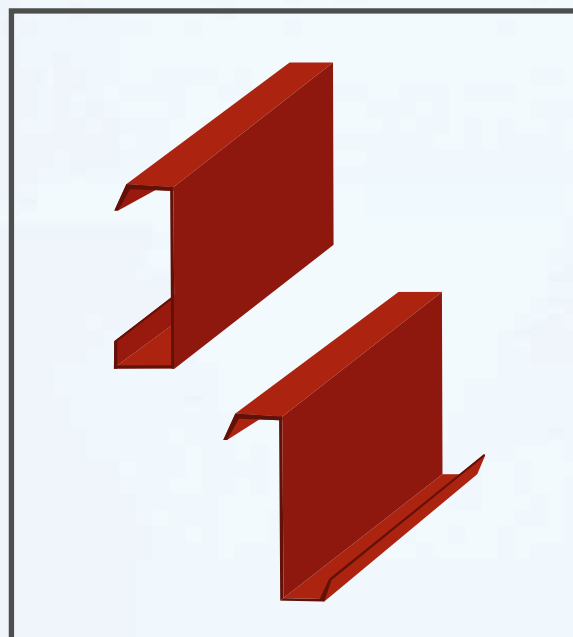
Mezzanines

Intermediate mezzanine floors are possible in metal buildings. Mezzanine floors can be provided in complete or partial area as required. Mezzanine floor consists of steel decks, supported by joists framed to the mezzanine beams.

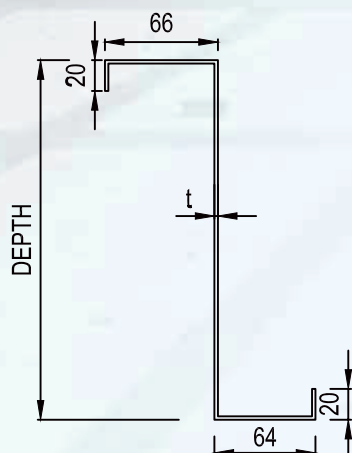


ADVANTAGES OF VIPUL INFRA SYSTEMS PVT. LTD. PURLINS

1. Saving upto 40-50% weight of structural steel and 25-30% in cost when compared to hot rolled sections.
2. Saving upto 35-40% in weight and 20% in cost when compared to hot rolled purlins.
3. Truss spacing can be increased, hence less number of trusses columns and foundation work resulting in further economy.
4. The purlins are supplied in required lengths with pre-punched holes, Hence, reduction in constrained time and cost in fabrication & erection and no wastage.
5. Purlin erection is easier than others.
6. Close tolerance on sectional due to process of cold roll forming.
7. Low transportation cost due to reduced weight.
8. High versatility, durability and uniform quality.



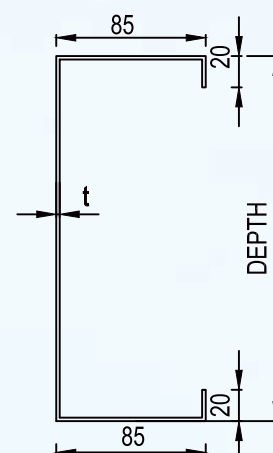
'Z' & 'C' Section Purlins



Dimensions of 'Z' & 'C'

PARAMETER	DIMENSION
Length	Customised/as per requirement
Web (h)	150-300
Flange (b)	50-85
Thickness (t)	1.75-3.00

All dimensions are in mm



HIGH QUALITY ROOFING & CLADDING SYSTEM



Vipul Infra Systems Pvt. Ltd. is the manufacturer of metal building systems in India, and the product range includes metal roofing and cladding systems. Vipul Infra Systems Pvt. Ltd. profiles are available in both ribbed and flat panels in a variety of finishes for attractive roofing and cladding for domestic, commercial and industrial applications.

Material:

Vipul Infra Systems Pvt. Ltd. profiles are available in the following materials:

55% Al-Zinc coated sheet with anti fingerprint coating (e.g. **Galvalume, Zinalume, Aluzinc** etc.) Pre-painted 55% Al-Zn and galvanized sheet, factory painted with polyester (SMP) or fluorocarbon (PVDF) paint system.

Base Steel:

55% Al-Zinc coated steel (e.g. **Galvalume, Zinalume, Aluzinc**, etc.) offering high corrosion resistance. This alloy coating comprises of 55% Aluminium, 43.50% Zinc & 1.5% Silicon, which offers a superior barrier protection against coastal atmosphere conditions. This coating class is AZ-150 gms/sqm minimum coating mass total of both sides. This coating offers almost 3 times service life to that of conventional galvanised steel coating.

Yield Strength:

Vipul Infra Systems Pvt. Ltd. Hi-Rib profile is made from 550 Mpa grade steel substrate and Vipul Infra Systems Pvt. Ltd. Klip-Lok-770 is made from 275-550 Mpa grade substrate.

Galvanised Steel:

Vipul Infra Systems Pvt. Ltd. profiles are also available in galvanized sheet steel (hot dipped Zinc coated) over mild steel in a coating mass range of 120-275 gms/sqm as per IS 277 and in tensile strength of 240 MPa.

Paint Finish:

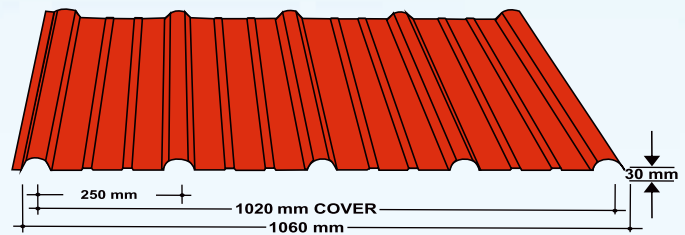
Pre-painted steel is produced on modern, high-speed coil painting lines where the steel surface preparation prior to painting, paint application & paint curing is done on a highly automated line under optimum conditions. Two layers of paint (special corrosion inhibitive primer & coloured top coat) are applied and oven cured in one pass along with a backer coat on the reverse side. The paint is flexible to withstand deformation, yet tough enough to resist damage during fabrication.

Standards:

AS: 1397, IS: 513, IS: 277, ASTM A792

Crimp Curve:

Vipul Infra Systems Pvt. Ltd. Hi-Rib profile is also available in concave & convex shapes to enhance building aesthetics.



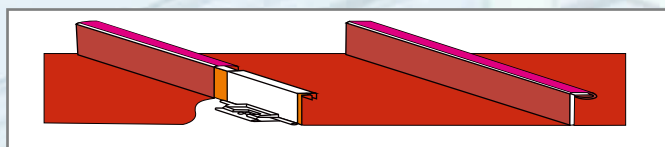
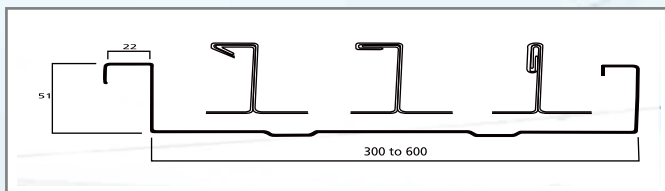
Hi-Rib profile

Vipul Infra Systems Pvt. Ltd. Hi-Rib profile is developed to provide a scientific solution for roof & side walls of industrial as well as commercial buildings. Vipul Infra Systems Pvt. Ltd. Hi-Rib is provided with a precisely engineered wide Rib & flute design to ensure wide spanning & quick recovery after being subjected to excessive loads.

STANDING SEAM ROOFING

SS-2000

This is a field seamed system that combines a slim rib with exceptional uplift resistance. This panel has been designed to withstand the most rigorous conditions.



Each of these systems feature optional factory installed hot-melt mastic for low slope applications to ensure weather tight seams. Ribs are provided for added aesthetics value and strength.

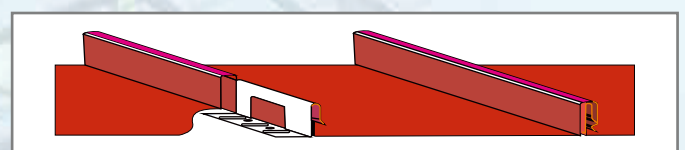
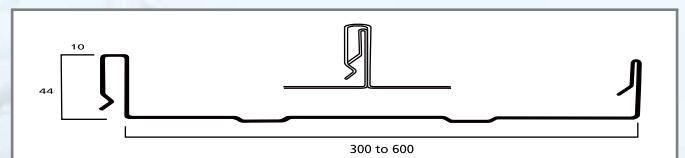
A variety of watertight seam designs is available, including single-lock, double-lock, single crimp and capped. Some seams snap together, other are mechanically seamed during installation.



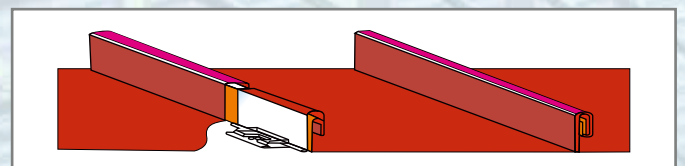
On Site Forming Machine

SL-1750

This is a snap-together system that was designed for transitions from roof fascia for a continuous, uninterrupted appearance.



Panel Interlock



On Site Seaming Machine

PANELS & THERMAL INSULATION

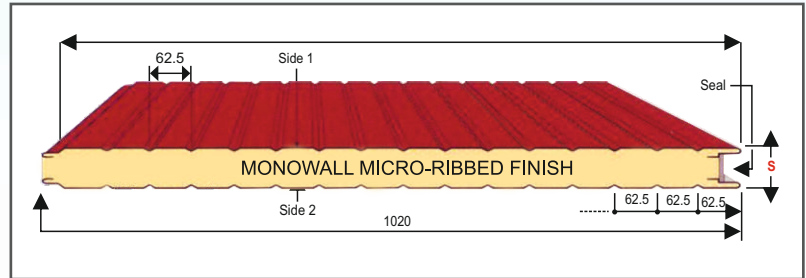
Insulated Panels

Specifications

- Density : 48Kg/M³ polyurethane (Foam) insulation.
- Insulation thickness: 40mm up to 200mm to suit temperature range from -200Â°C to 100Â°C
- Top/Bottom Sheet: PPGI/PPGL/BGL

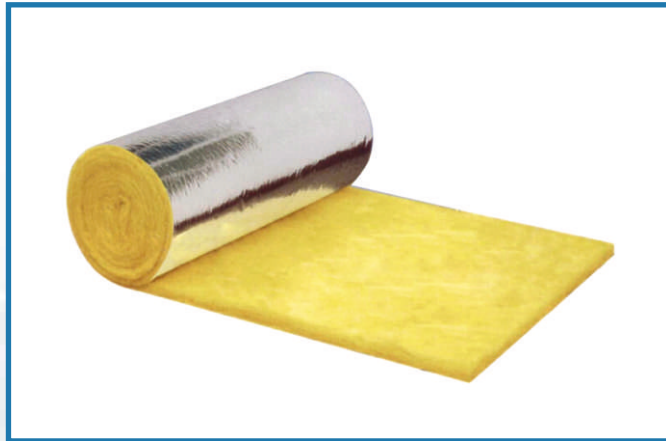
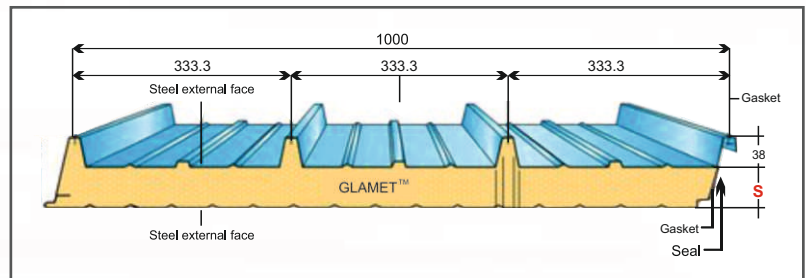
Wall Panel

Consists of Polyurethane Insulated 40mm to 200mm thick panels of PUF Density 48 ± 2 Kg/m³. The individual panels are firmly locked together by tongue & groove. The Panel shall have both side metal sheets.

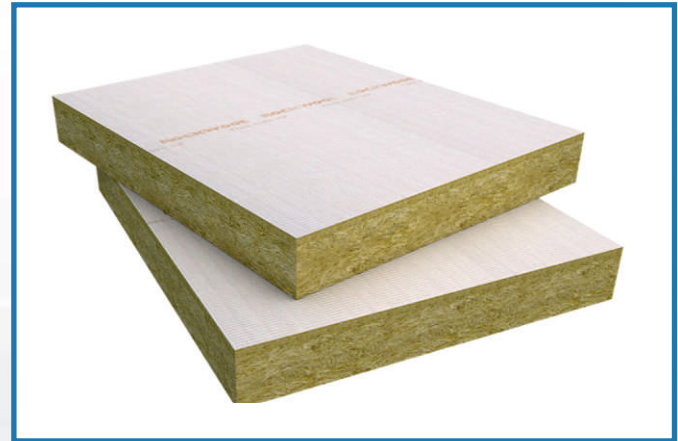


Roofing Panel

Made out of Polyurethane Insulated 30mm to 200mm thick panels of PUF Density 48 ± 2 Kg/m³. The panel shall have both side sheets.



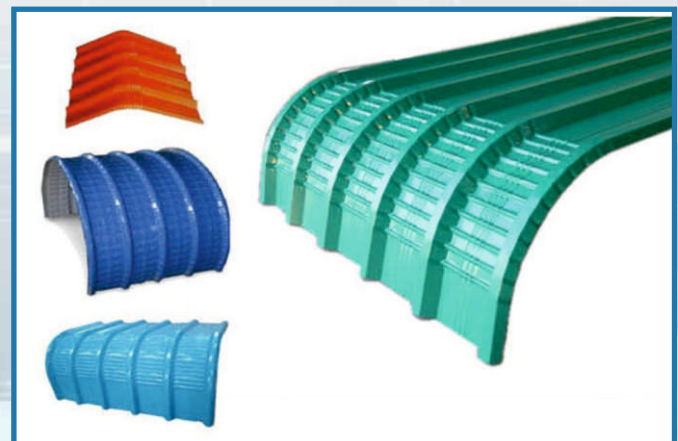
Glasswool



Rockwool



Turbo Ventilator



Crimp Curve Eave

DECKING SHEETS

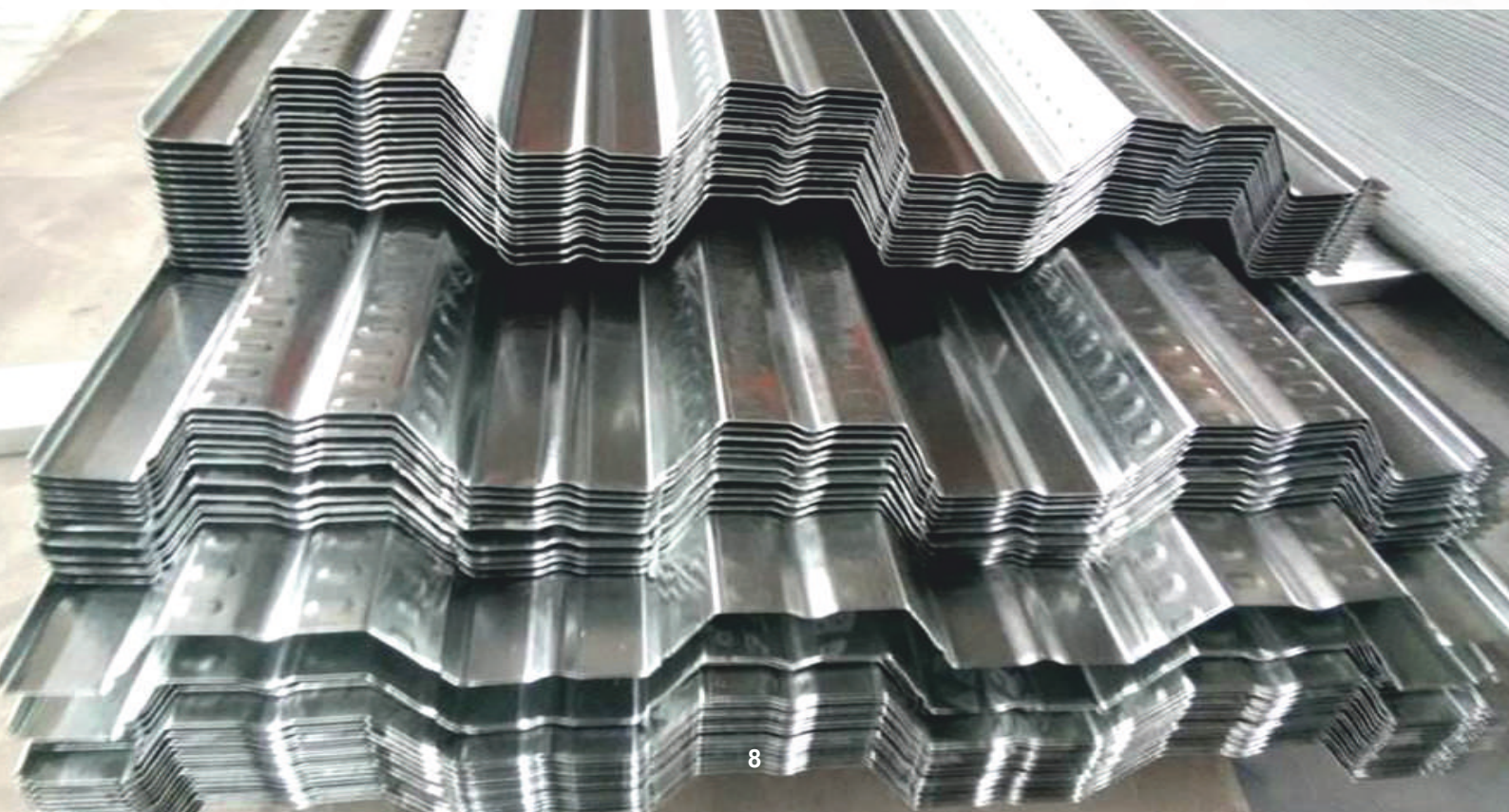
Vipul Infra's Decking Sheets are known for their anti-corrosive properties and widely regarded for their long life. The offered range of decking sheets has amassed immense appreciation among the clientele we have accomplished to reap so far.

Specifications	Metal Deck	Embossed Deck
Trough Depth	44 mm	51mm
Pitch Centre to Centre	130 mm	230 mm
Sheet Width Feed	1220 mm	1220 mm
Covered Width	910 mm	920 mm
Length	Up to 12 Meters	Up to 12 Meters
Thickness	0.50 mm to 2.00 mm	0.50 mm to 2.00 mm

Features:

- Quick & easy installation
- Economical
- Provide stable working platform
- Require no external support
- Require no key reinforcement
- Multi-faceted-flooring
- Light in weight
- Galvanized
- Corrosion free
- Suitable for roofing, cladding & flooring
- Great appearance

Material	Yield	Colour	Coating
Pre-Painted Galvanised Steel	250-350 Mpa	As per shade card	120 to 275 Gsm
Pre-Painted Galvalume Steel	350-550 Mpa	As per shade card	AZ 150
Cold Rolled Steel	250-350 Mpa	Black	AA



PROJECTS

Ayaan Paper & Converters Pvt Ltd,
Sampla, Rohtak (55,000 Sq. Ft.)



Supple Tek, Amritsar, Punjab
(70,000 Sq. Ft.)



C. Lal Bright Steel Pvt Ltd, Palwal
(90,000 Sq. Ft.)



VYB Engineering Pvt Ltd, Dhatir, Palwal
(46,500 Sq. Ft.)



RX Healthcare Ltd, Bahadurgarh, Haryana
(45,000 Sq. Ft.)



K R Autotech Pvt Ltd, Kharkhonda, Sonipat
(80,000 Sq. Ft.)



Venus Injectoplast, Dudhola, Palwal
(70000 Sq. Ft. with G+3 Mezzanine)



Metco Stamping, Patli-Khurd
(25,000 Sq. Ft.)



PROJECTS

Raj Polymers Pvt Ltd, Hasangarh, Rohtak, Haryana
(1,65,000 Sq. Ft.)



Voith Paper, Faridabad, Haryana
(80,000 Sq. Ft.)



SN Enterprises, Pali, Haryana
(30,000 Sq. Ft.)



SD Metal, Patli-Khurd, Palwal, Haryana
(30,000 Sq. Ft.)



Sugu Fabrics, Baghola, Palwal, Haryana
(80,000 Sq. Ft.)



Aditya Birla, Madhya Pradesh
(30,000 Sq. Ft. with G+3)



Cold Storage, Sonipat, Haryana
(15,000 Sq. Ft.)



Mahadev Hyundai, Faridabad, Haryana
(15,000 Sq. Ft. with G+2)



MACHINERY

CNC Plasma Cutting Machine
(ProArc – 200A Hypertherm)



CNC Drilling Machine (50 mm Dia & 100MM Thick)



PTW Welding Machine – H-Beam Line
(Make: Primo)



Z & C Purlin Machine



Hydraulic Punching Machines (Iron Worker)



Standing Seam Machine



CLIENTS



HO & PLANT: Khasra No-47/21, 48/25, Village-Patli Khurd, Palwal, Haryana-121102

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