



**Vipul Infra Systems Pvt. Ltd.**  
(A Complete Building Solution)



- Concept
- Design
- Manufacturing
- Erection

**DEDICATION TOWARDS  
PROGRESSION**

In Pre Engineered Buildings



## ABOUT US

Vipul Infra Systems Pvt. Ltd. is one of the leading ISO 9001-2008 certified company having its manufacturing facility based at Delhi & NCR.. We offer turnkey services which includes design, engineering, architectural services and execution. We have the most advanced structure systems manufacturing in the high quality control on automatic machines to ensure international quality PEB systems. We have manufactured and executed several large industrial projects in the past 15 years.

Vipul Infra Systems Pvt. Ltd. can integrate customer specified mezzanines, canopies, and facades in building design. Vipul Infra Systems Pvt. Ltd. also manufactures and sells metal building components like roof and wall cladding, louvers, ridge vents, roof monitors, skylights, integrated rain water collection and disposal systems.

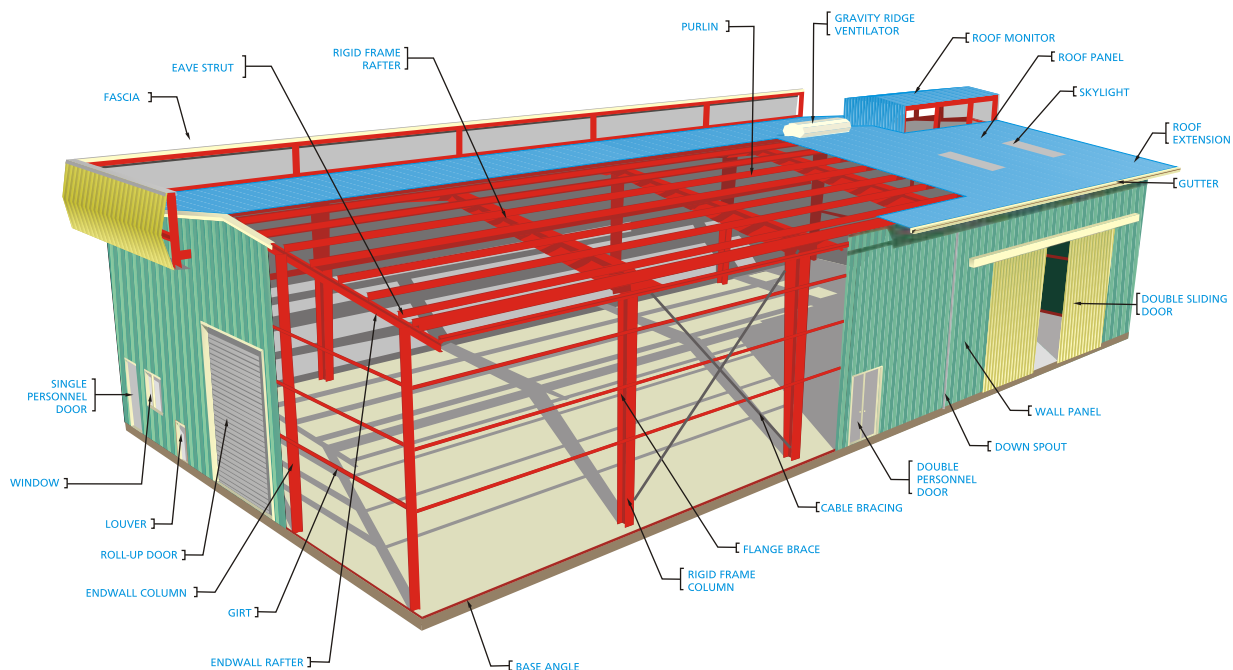
Using state of the art design software and manufacturing processes in our plant. Vipul Infra Systems Pvt. Ltd. is a team of dedicated professionals deliver your building projects on time and within budget. The entire engineering process is automated through dedicated software and custom developed analysis. STAAD design calculations are furnished with the design for validation. Our computer backed design and estimation system ensures precise estimation and ensures delivery of all parts to the project site in a timely manner. This attention to detail helps us deliver the projects as per the agreement terms.

We always believe " Science and technology are the primary factors in productivity". By cooperating with national colleges and research institutions, we have the ability of researching and developing new technological products.

Vipul Infra Systems Pvt. Ltd. develops solutions to satisfy your needs. Our engineering strengths enable us to optimize complex building designs into efficient building solutions to suit our customer's needs. All buildings are designed and manufactured to comply with the latest American design codes.

## PRE-ENGINEERED BUILDING

Vipul Infra Systems Pvt. Ltd. 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



## VIPUL INFRA SYSTEMS PVT. LTD. BUILDING INCLUDES

- ▶ All primary and secondary framing
- ▶ Choice of 3 wall systems
- ▶ Thermal or Acoustic insulation
- ▶ Integrated accessories
- ▶ All connections
- ▶ All fixings
- ▶ Linear panels
- ▶ Creane beams and rails
- ▶ Choice of 2 roof systems
- ▶ All sealants for weather- proofing
- ▶ EOT Cranes
- ▶ Mezzanine floors





## PEB KNOWLEDGE SERIES

# 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  $\text{Kn/m}^2$  placed on the exterior of a structure by wind. This will depend on (a) Wind Zone (b) Shape of structure.

### SEISMIC LOADS

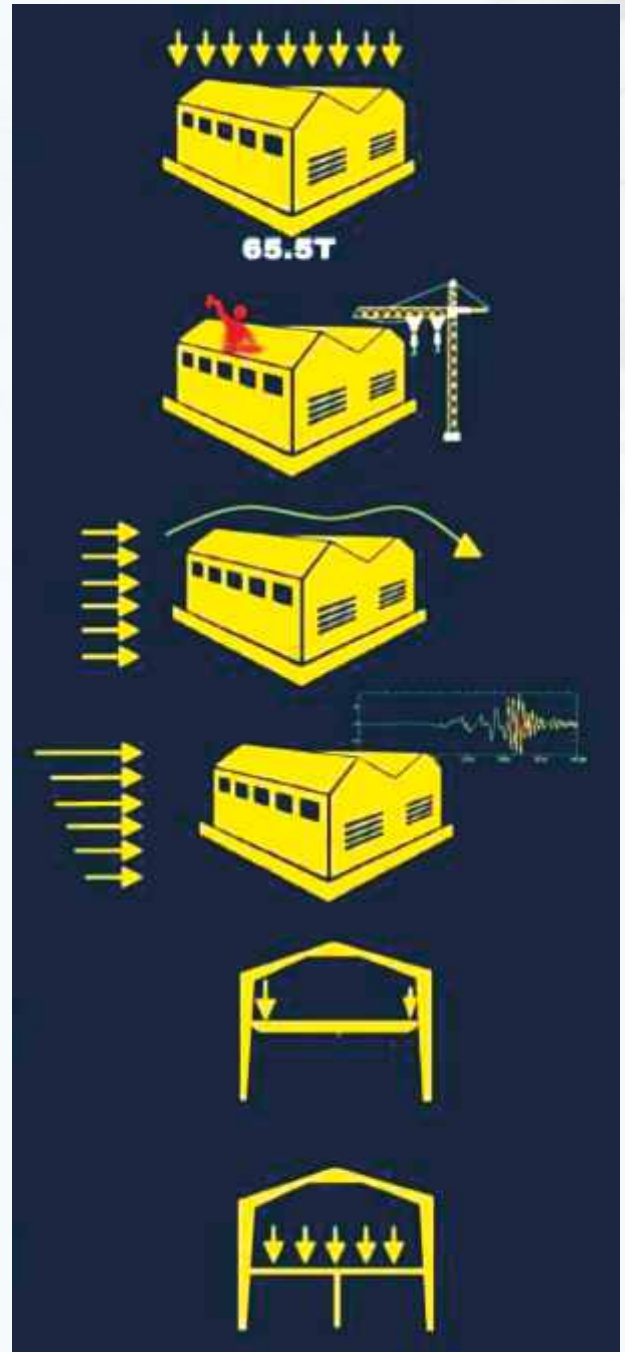
it is caused by earthquake forces and is applied horizontally at the center of mass of the main structure.

### CRANE LOADS

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

### MEZZANINE LOADS

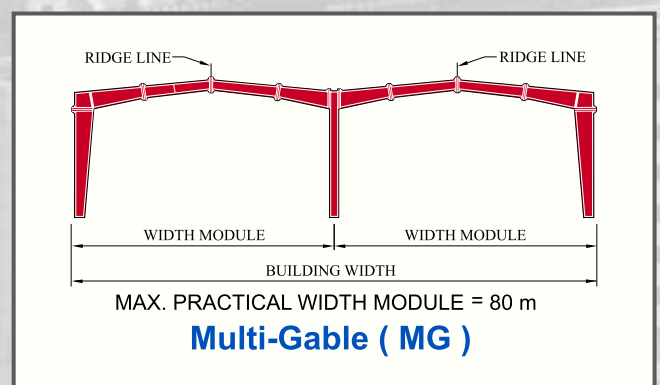
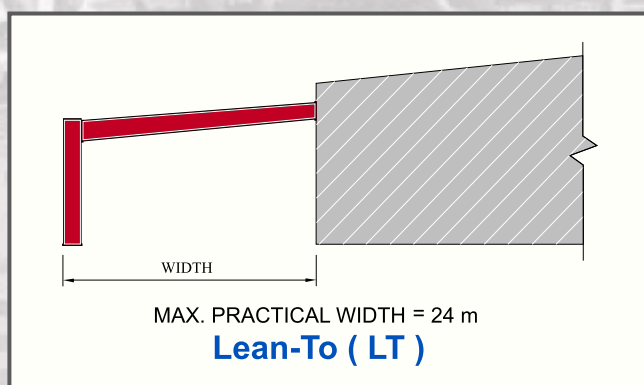
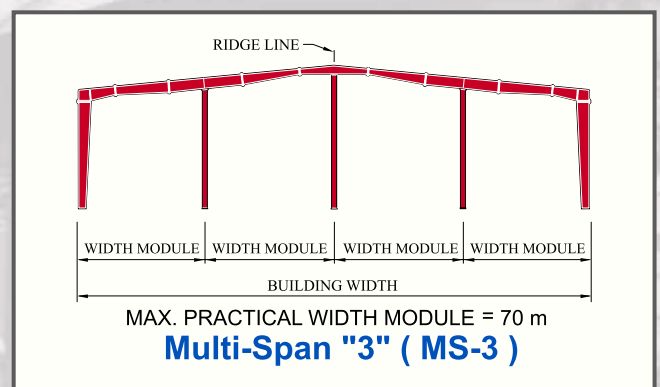
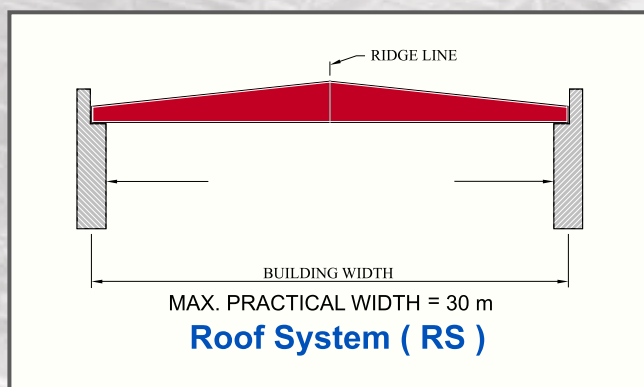
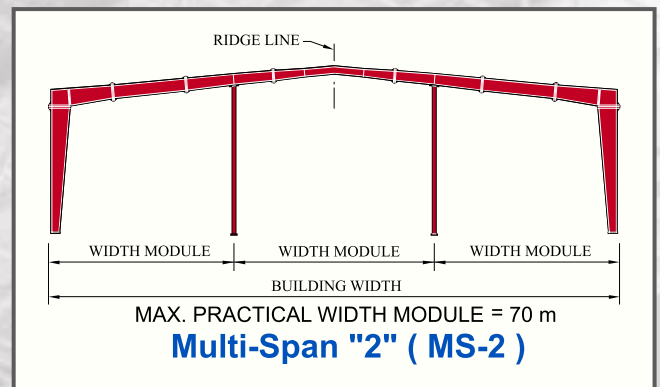
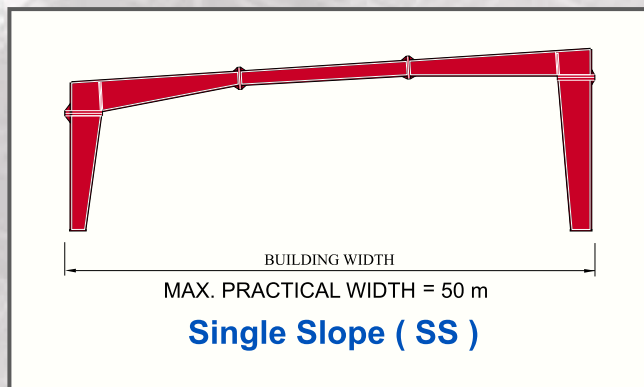
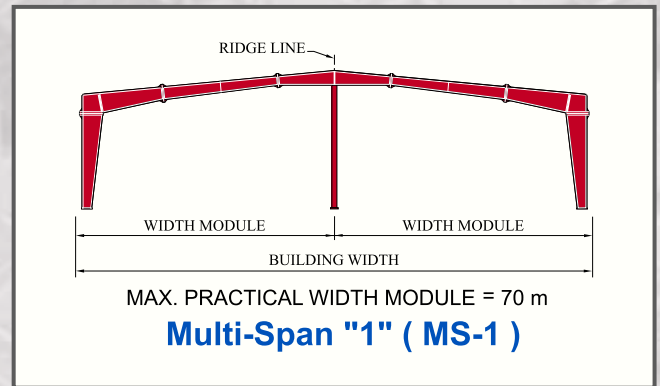
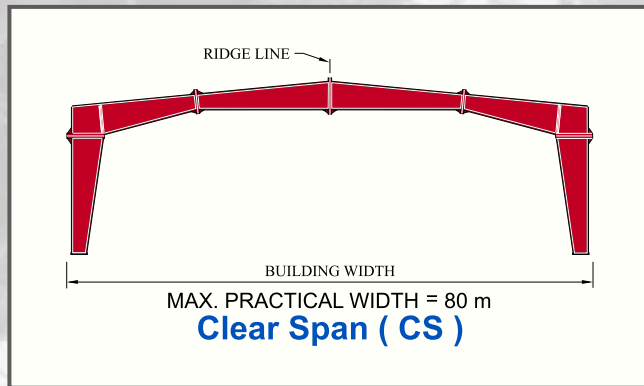
Dead load of mezzanine framing, finishes in addition to the live load applied on the mezzanine according to its occupancy and usage classification.





## FRAMING SYSTEM

The most common Framing systems are shown below:





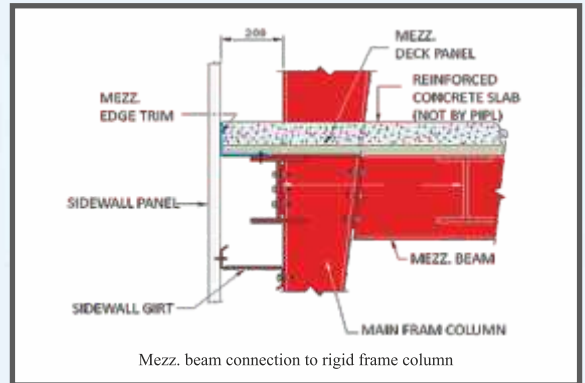
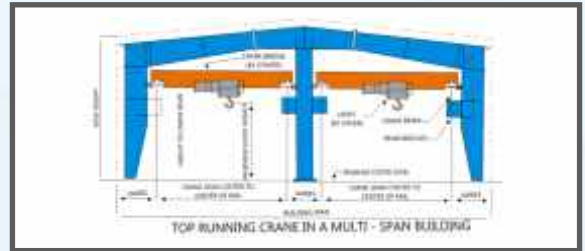
## CRANES & MEZZANINES

### 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.

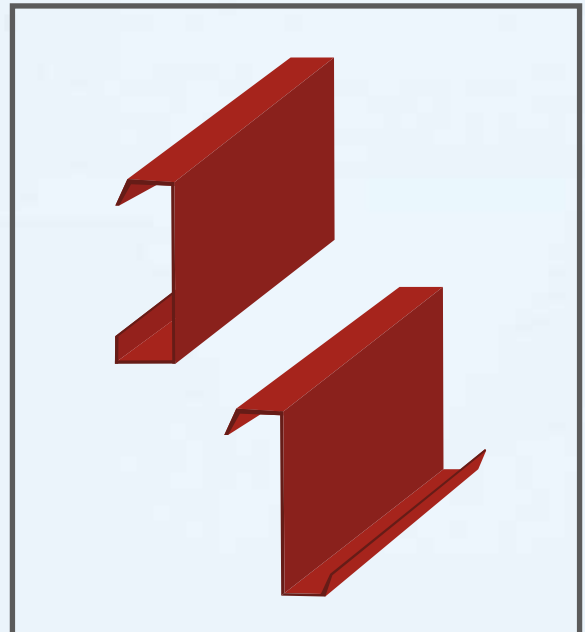
### Mezzanines

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.

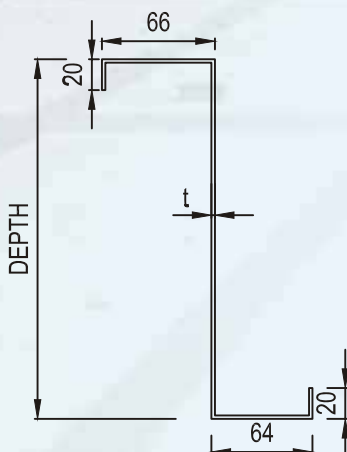


## ADVANTAGES OF VIPUL INFRA SYSTEMS PVT. LTD. PURLINS

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.



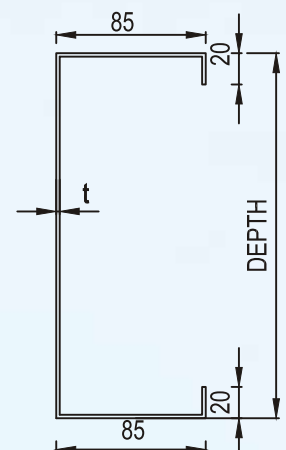
### 'Z' & 'C' Section Purlins



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 dimension are in mm





## HIGH QUALITY ROOFING & CLADDING SYSTEM



**Vipul Infra Systems Pvt. Ltd.**  
(A Complete Building Solution)

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-lock 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:

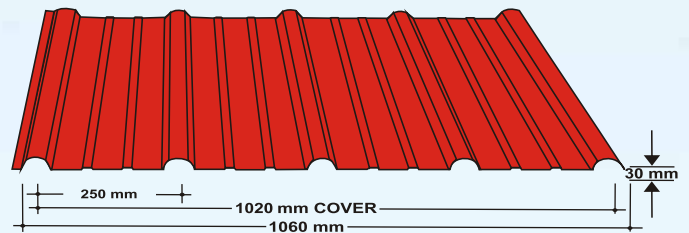
Pre- painted steel is produced on modern, high- speed coil painting lines where the steel surface preparation prior to painting, paint application & paint curing is done on a highly automated line under optimum conditions. Two layers of paint (special corrosion inhibitive primer & coloured top coat) are applied and oven cured in one pass alongwith 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.



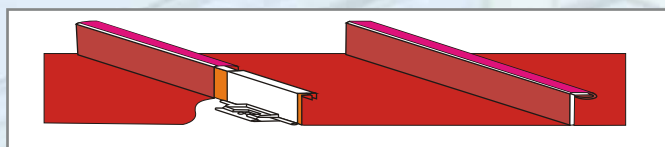
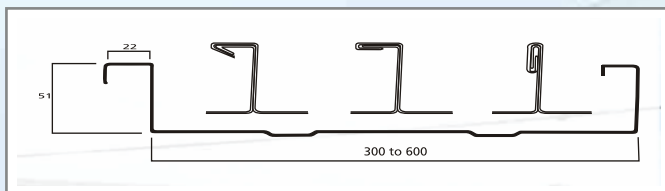
### Vipul Infra Systems Pvt. Ltd. Hi- Rib profile

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.

## VIPUL INFRA SYSTEMS PVT. LTD. 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.

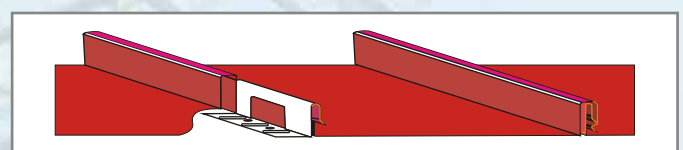
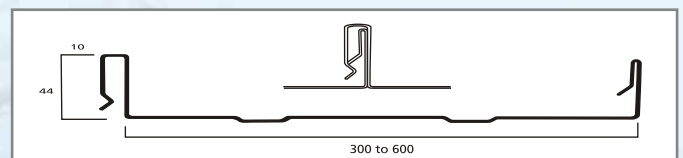
A variety of watertight seam designs is available, including single-lock, double-lock, single crimp and capped. Some seams snap together, other are mechanically seamed during installation.



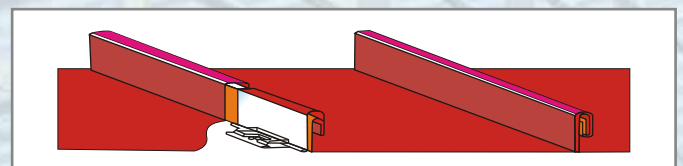
On Site Forming Machine

### 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

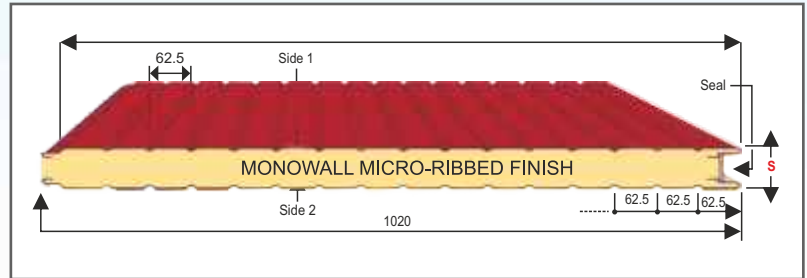
### Insulated Panels

#### Specifications

- Density : 40Kg/M<sup>3</sup> 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

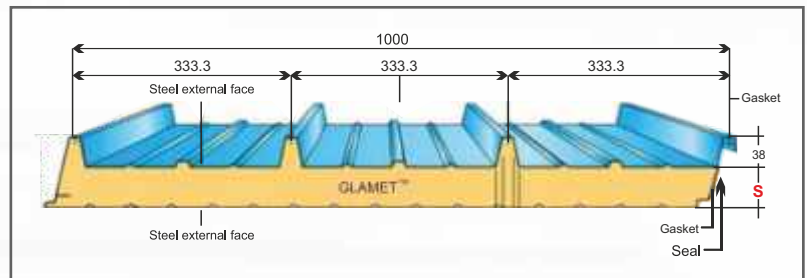
#### Wall Panel

Consists of Polyurethane Insulated 40mm to 200mm thick panels of PUF Density 40 ± 2Kg/m<sup>3</sup>. The individual panels are firmly locked together by tongue & groove. The Panel shall have both side metal sheets.

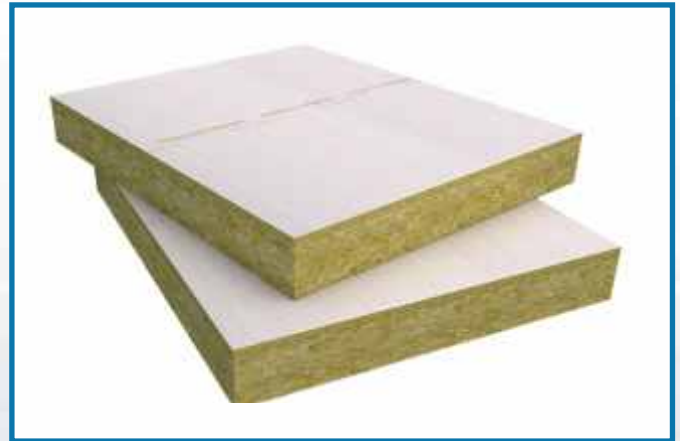


#### Roofing Panel

Made out of Polyurethane Insulated 30mm to 200mm thick panels of PUF Density 40 ± 2Kg/m<sup>3</sup>. The panel shall have both side sheets.



Glasswool



Rockwool



Turbo Ventilator



Crimp Curve Eave



## DECKING SHEETS

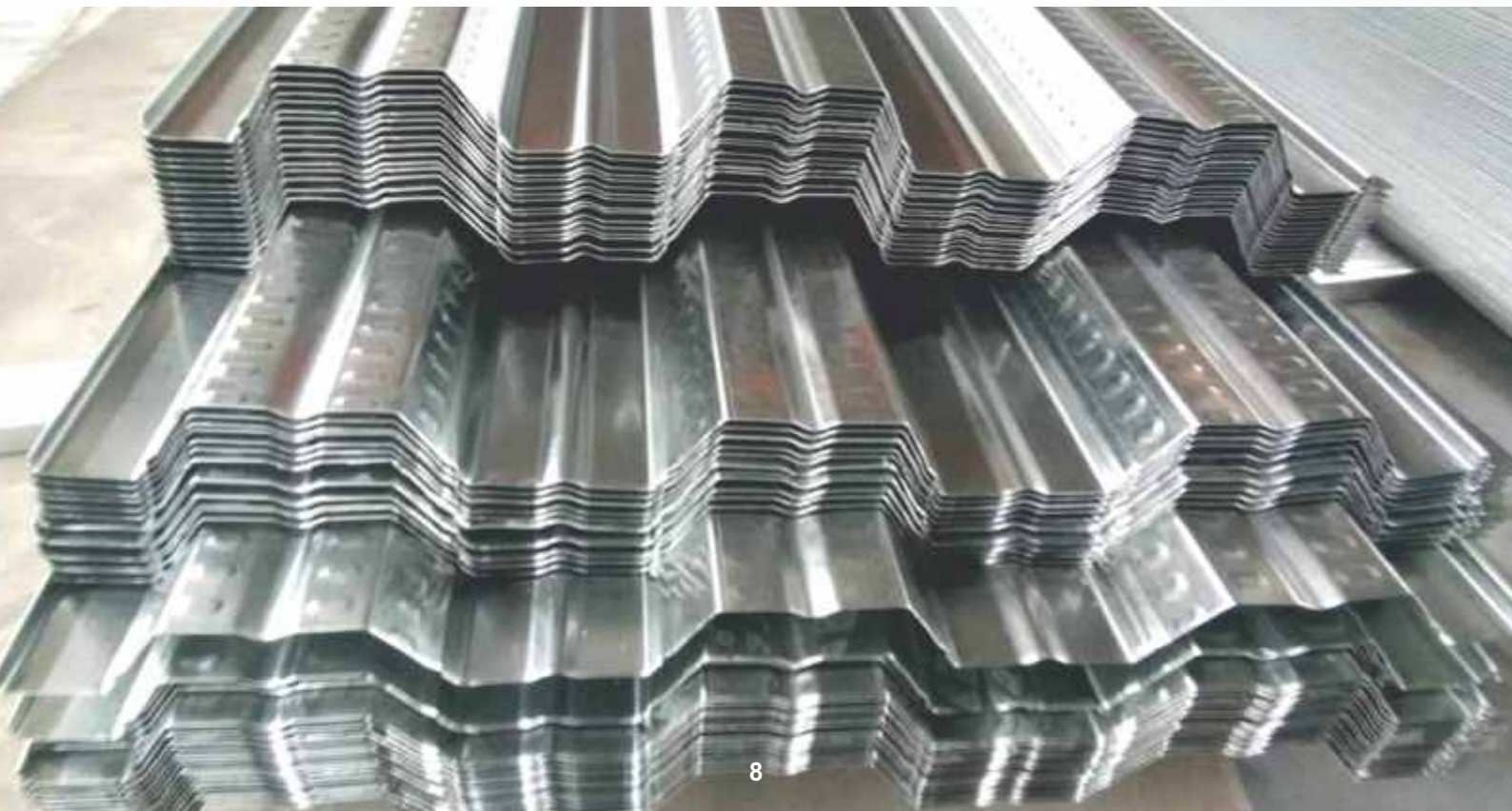
Vipul Infra Systems Pvt. Ltd. Decking Sheets are known for their anti-corrosive properties and widely regarded for their long life. The offered range of decking sheets has amassed immense appreciation among the clientele we have accomplished to reap so far.

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 Galvanlume Steel	350-550 Mpa	As per shade card	AZ 150
Cold Rolled Steel	250-350 Mpa	Black	AA







## OUR PROJECTS







## OUR PROJECTS



**Client: VBY Construction**  
**Location: Dhatir, Palwal (HR)**  
**Area: 65,090 Sq.Ft. Multi Span**



### On Going Projects



**Client: Bindal Agro Industries**  
**Location: Guna, (MP)**  
**Area: 70,580 Sq.Ft.**  
**High Bay-Low Bay Building**





## PLANT AND MACHINERY







Vipul infra Systems Pvt. Ltd. has rapidly become the first choice and preferred supplier for quality building, timely delivery and excellent safety standards. Our dedication to provide the customers with innovative, cost effective, energy efficient building solutions has differentiated Vipul infra Systems Pvt. Ltd. from other manufactures. Our mission is to continue to deliver our "gold standard" of metal building solutions and customer service and translate them into extra- ordinary value for you and your organization. We take nothing for granted and will continue to dedicate our efforts to earn your trust and look forward to building a long and rewarding relationship.



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(A Complete Building Solution)

**Head Office & Plant:**

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