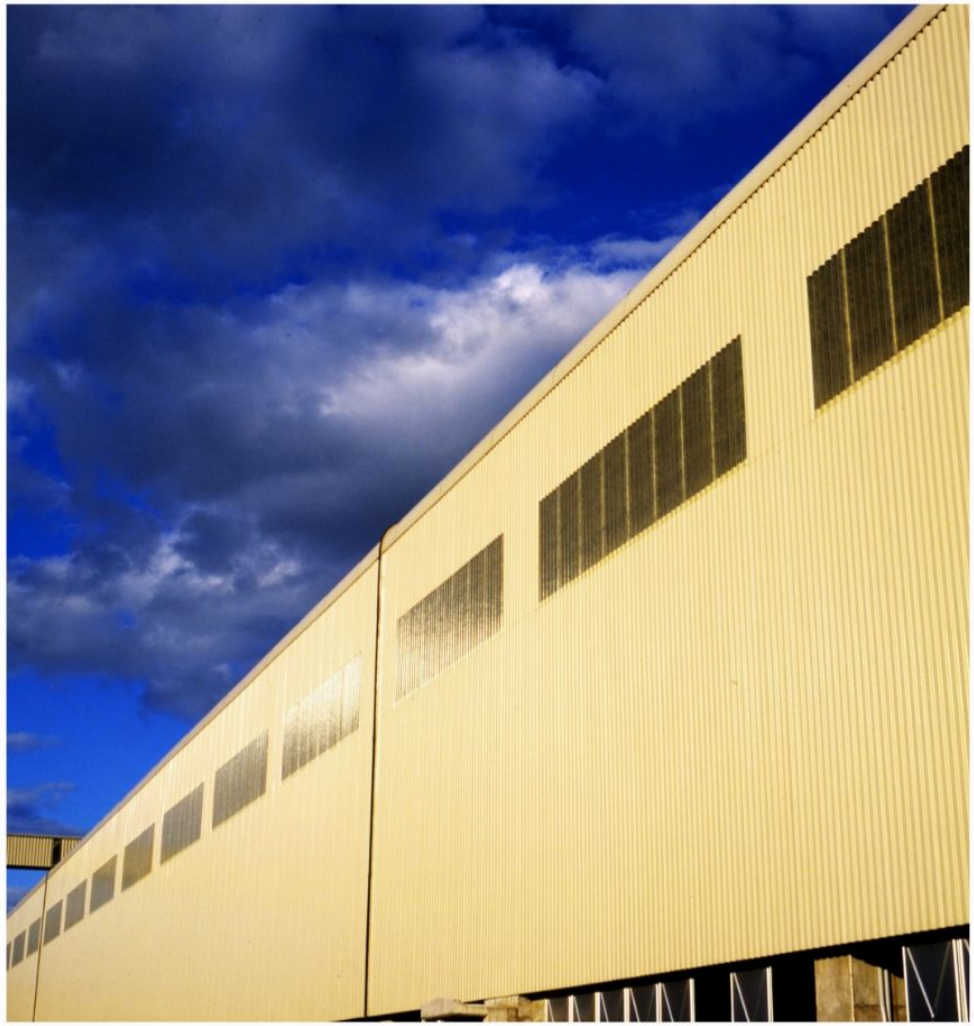
MRB

MRB PROJECTS

ISO 9001 2015 CERTIFIED

- CONCEPT
- DESIGN
- MANUFACTURING
- INSTALLING

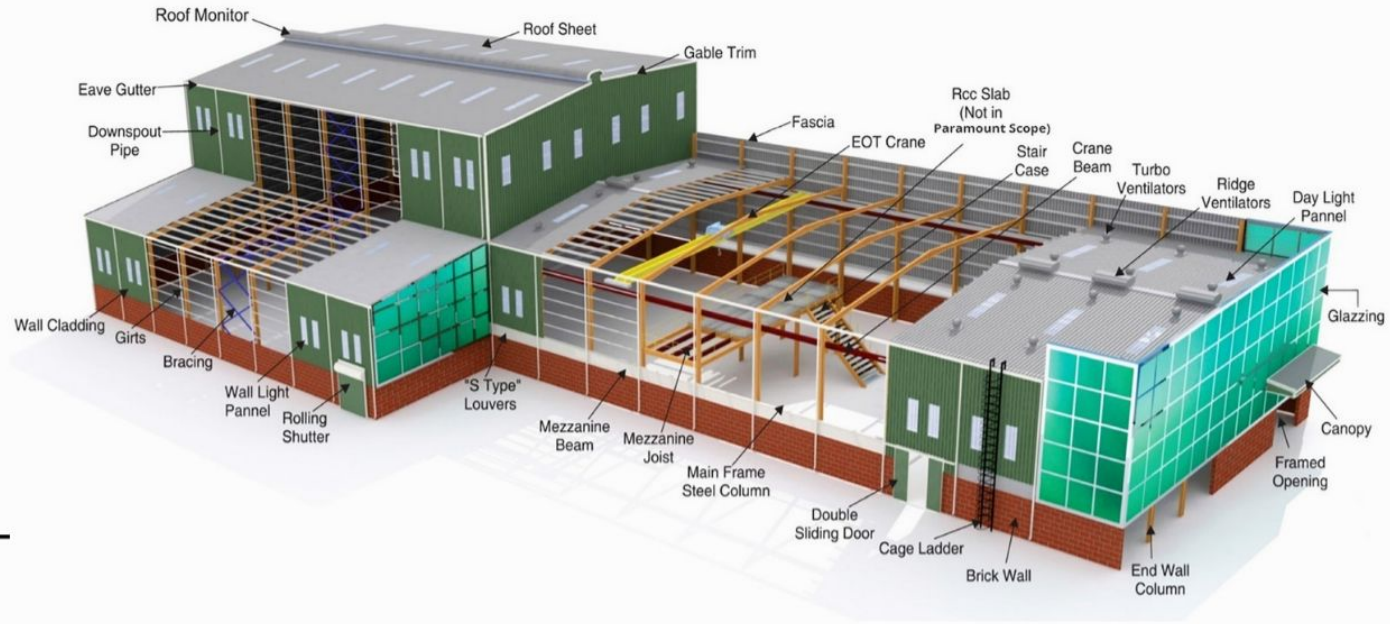
WWW.PEBPROJECTS.COM



DEDICATION TOWARDS PROGRESSION

ISO 9001 2015 CERTIFIED

ABOUT US



MRB Projects is one of the leading ISO 9001-2015 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 10 years. MRB Projects can integrate customer specified mezzanines, canopies, and facades in building design. MRB Projects also manufactures and sells metal building components like roof and well 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. MRB Projects 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.

MRB Projects 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.

WHAT WE DO

PRE ENGINEERED BUILDINGS

- Warehouses
- Factory Shed
- Airport Terminals
- Stadiums

PREFABRICATED STRUCTURES

- Living Accommodation
- Site Office
- School/Hospitals
- Clean/Cold Rooms

INSULATED SANDWICH PANELS

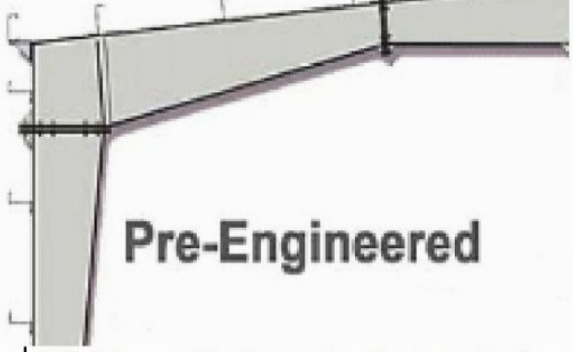
- PUF
- EPS
- Rockwool &
- Glasswool Panels

LGSF BUILDINGS

- Marketing Office
- Sample Flats
- Villa / Cottages
- Mass Accommodation

COMPARISON

BETWEEN MRB PROJECTS AND CONVENTIONAL SYSTEM



Design	Highly sophisticated software design package is used for designing which reduces design time significantly and eliminates errors.	Substantial engineering and detailing work is required on every project , resulting in time overruns.
Delivery	Average 6 to 8 weeks.	Average 20 to 26 weeks.
Foundations	Simple design , light foundations	Heavy Foundations.
Erection Simplicity	Standard Components connections, short learning curves.	Connections are complicated and differ from project to project , resulting in long learning curves of erection.
Erection Time	Fast and standard components connections.	Long, highly variable and unpredictable.
Seismic	Low- weight flexible frames offer higher resistance to seismic forces.	Rigid heavy weight structures do not perform well in seismic zones.
Overall Price	Cost Efficient.	High.
Architecture	Outstanding architectural design can be achieved at low cost using standard architectural features and interface details.	Special architectural design and features must be developed for each project, which often require research and thus resulting in much higher cost.
Future Expansion	Future expansion is simple, easy and cost effective.	Future expansion would be more difficult and more likely, costlier.
Safety and Responsibility	Single source of supply results in total responsibility.	Multiple responsibilities can result in questions of who is responsible when components do not fit properly.

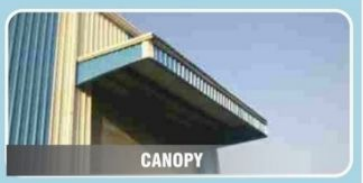
APPLICATIONS

❖ **INDUSTRIAL**
- Factories
- Ware House
- Workshop
- Car Parking Sheds
- Cold Storages

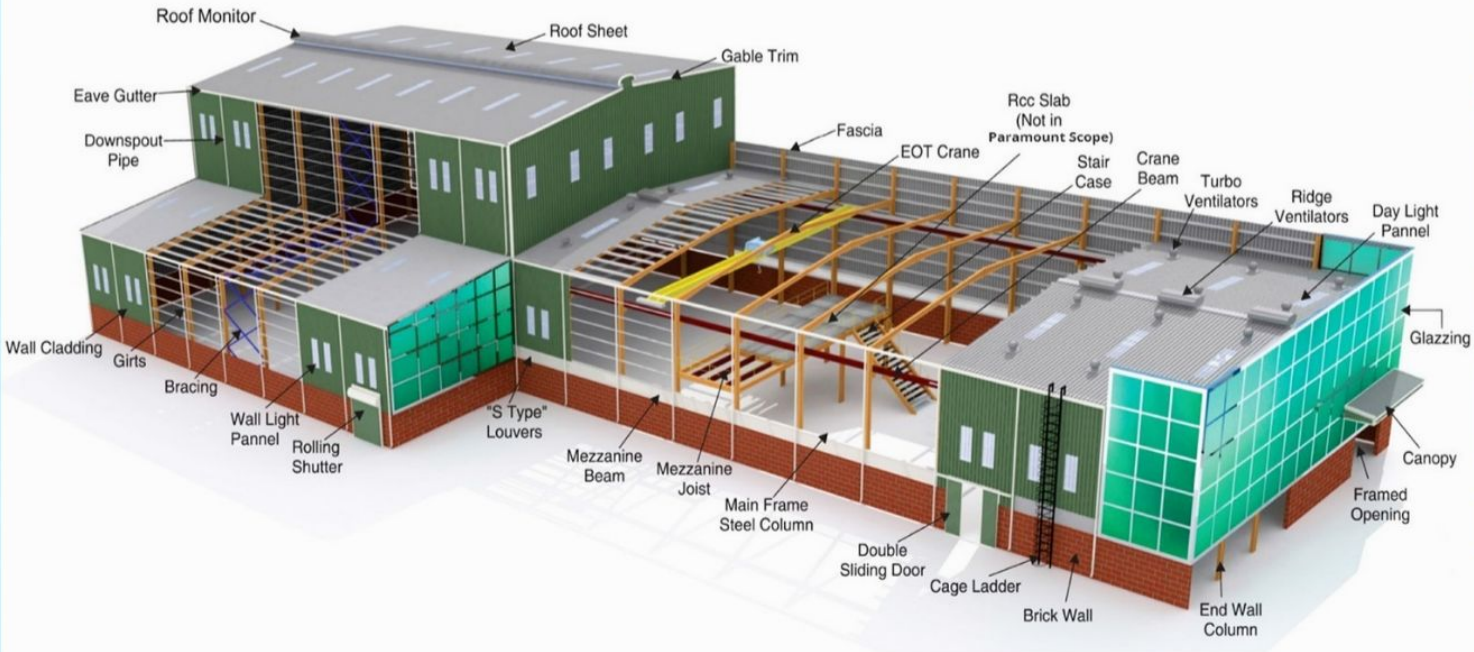
❖ **INSTITUTIONAL**
- Hospitals
- Schools
- Auditoriums
- Exhibition Halls

❖ **COMMERCIAL**
- Shopping Centers
- Super Markets
- Restaurants
- Office buildings
- Petrol Pump Stations

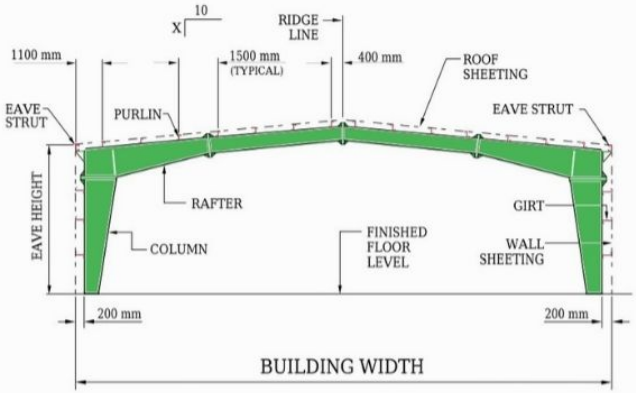
❖ **OTHER APPLICATIONS**
- Residential Buildings
- Aircraft Hangers
- Grain Storage
- Diary Farms
- Poultry buildings
- Gymnassiums
- Railway stations

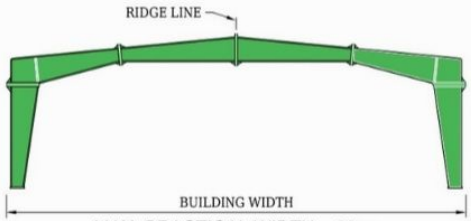


MANUFACTURING PRODUCTS



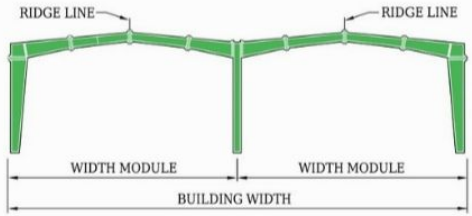
MRB PEB FRAMING SYSTEMS





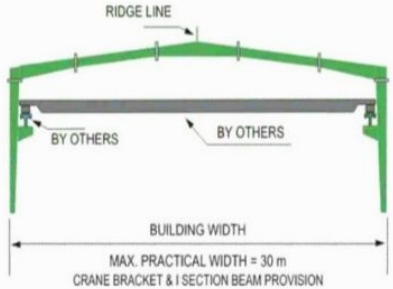
MAX. PRACTICAL WIDTH = 80 m

Clear Span (CS)



MAX. PRACTICAL WIDTH MODULE = 80 m

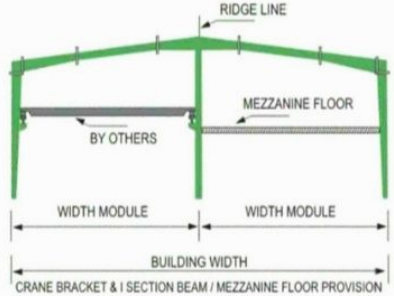
Multi-Gable (MG)



MAX. PRACTICAL WIDTH = 30 m

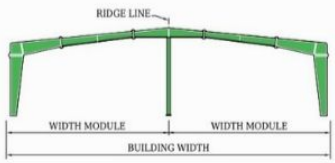
CRANE BRACKET & I SECTION BEAM PROVISION

Single Span EOT Crane



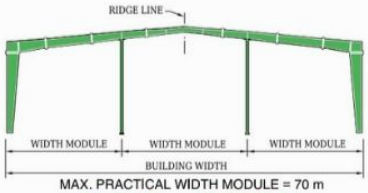
CRANE BRACKET & I SECTION BEAM / MEZZANINE FLOOR PROVISION

Multi –span EOT Crane with Mezzanine Floor



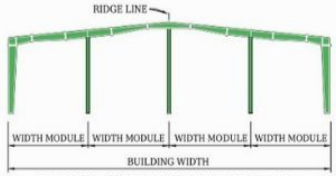
MAX. PRACTICAL WIDTH MODULE = 70 m

Multi-Span "1" (MS-1)



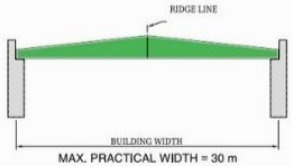
MAX. PRACTICAL WIDTH MODULE = 70 m

Multi-Span "2" (MS-2)



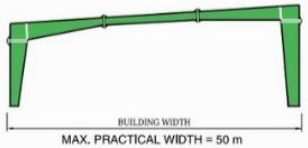
MAX. PRACTICAL WIDTH MODULE = 70 m

Multi-Span "3" (MS-3)



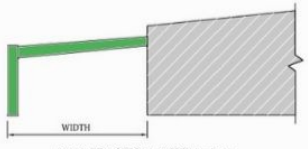
MAX. PRACTICAL WIDTH = 30 m

Roof System (RS)



MAX. PRACTICAL WIDTH = 50 m

Single Slope (SS)



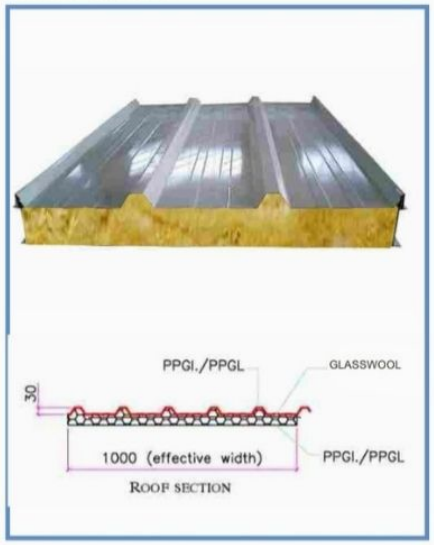
MAX. PRACTICAL WIDTH = 24 m

Lean-To (LT)

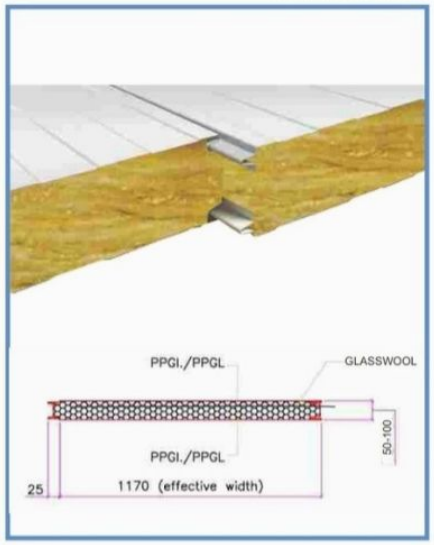
MRB SANDWICH PANEL

GLASSWOOL PANEL

ROOF PANEL



WALL PANEL

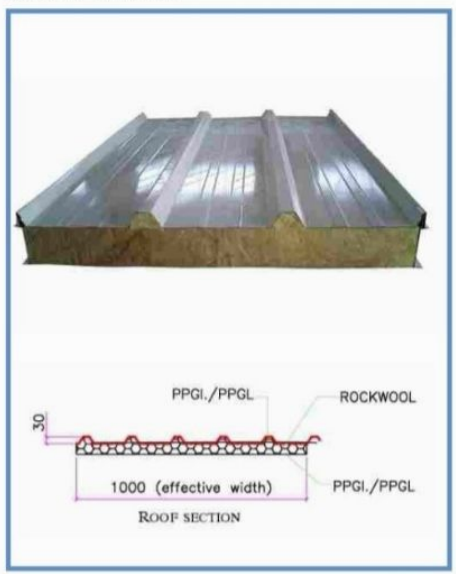


Technical Specifications

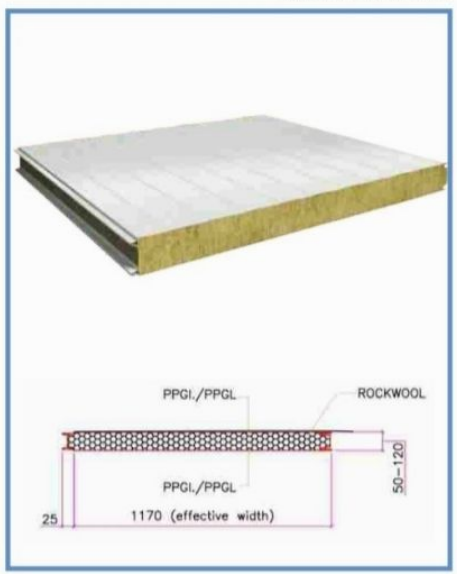
Width-wall	1170mm			
Width- roof	1000mm			
Core thickness (mm)	50	60	80	100
U value (m^2 °K/w)	0.89	0.67	0.43	0.36
R value (Btu/hr/ft^2 / °F)	14	17	21	27
Fascia Options	PPGS/PPGL			
Density (Kg/m^3)	48 Kg/m^3			
Thermal Conductivity at 50 °C mean Temperature (w/m°k)	0.033			
Compressive Strength at 5% Deformation (Kg/cm^2)	0.4896			
Recovery After Compression	90% min.			
Service Temperature	-190 ° C to +250 ° C			
Water Absorption (Volume %)	Less than 2% in accordance with IS : 3144/BS:3978			
Sound Reduction (db)	28-30			
Fire class	Non- Combustible			

ROCKWOOL PANEL

ROOF PANEL



WALL PANEL



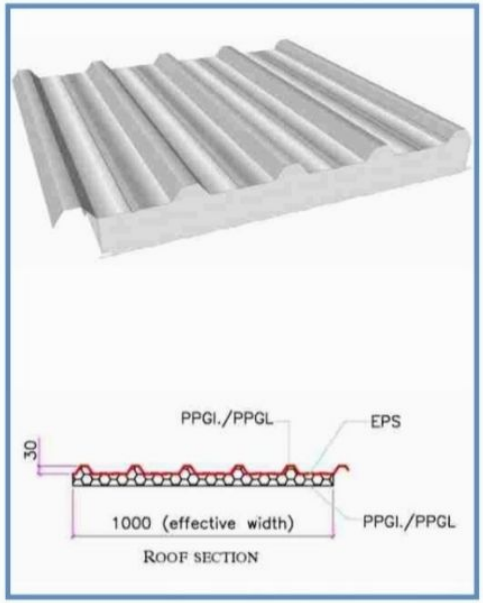
Technical Specifications

Width-wall	1170mm				
Width- roof	1000mm				
Core thickness (mm)	50	60	80	100	120
U value (m^2 °K/w)	0.72	0.61	0.46	0.37	0.28
R value (Btu/hr/ft^2 / °F)	8	10	13	16	20
Fascia Options	PPGS/PPGL				
Density (Kg/m^3)	100 Kg/m^3				
Thermal Conductivity at 10 °C mean Temperature (w/m°k)	0.04				
Compressive Strength at 10% Deformation (Kg/cm^2)	0.50985				
Bending Strength (Kg/cm^2)	0.7647				
Melting Point	> 1000 ° C				
Water Absorption (Volume %)	Less than 1%				
Sound Reduction (db)	28-30				
Fire class	Non- Combustible				

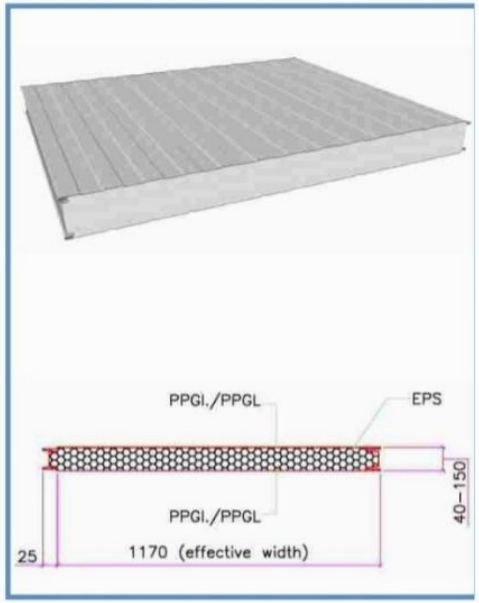
MRB SANDWICH PANEL

EPS PANEL

ROOF PANEL



WALL PANEL

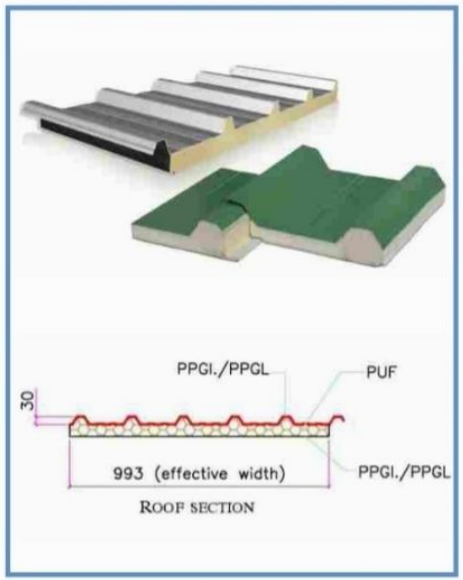


Technical Specifications

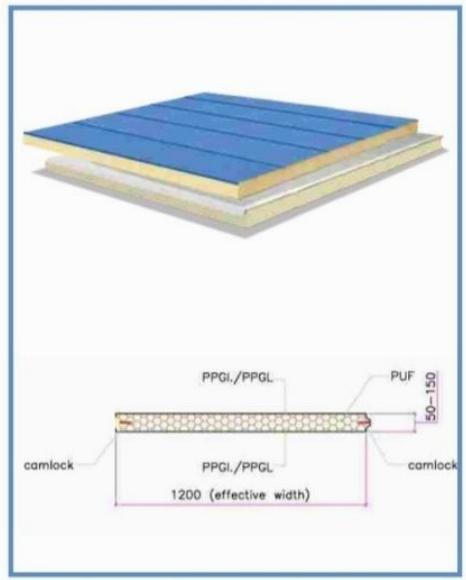
Width-wall	1170 mm						
Width- roof	1000 mm						
Core thickness (mm)	40	50	60	80	100	120	150
U value (m^2 °K/w)	0.75	0.53	0.43	0.33	0.28	0.22	0.18
R value (Btu/hr/ft^2 /°F)	9.8	11	13	16	20	26	30
Fascia Options	PPGS/PPGL						
Density (Kg/m^3)	16 Kg/m^3 (STANDARD) / 20-24 Kg/m^3						
Thermal Conductivity at 10 °C mean Temperature (w/m°k)	0.032						
Compressive Strength at 10% Deformation (Kg/cm^2)	1.95						
Bending Strength (Kg/cm^2)	2.8						
Tensile Strength (Kg/cm^2)	1.53 – 2.34						
Adhesive Strength (Kg/cm^2) foam to steel	2.4						
Water Absorption (Volume %)	3%						
Closed Cell Content (%)	90-95%						
Vapor Permeability at 90% (RH) & 38 °C (Gms /Hr.m^2)	25-40						
Fire class	Self Extinguishing						

PUF PANEL

ROOF PANEL



WALL PANEL



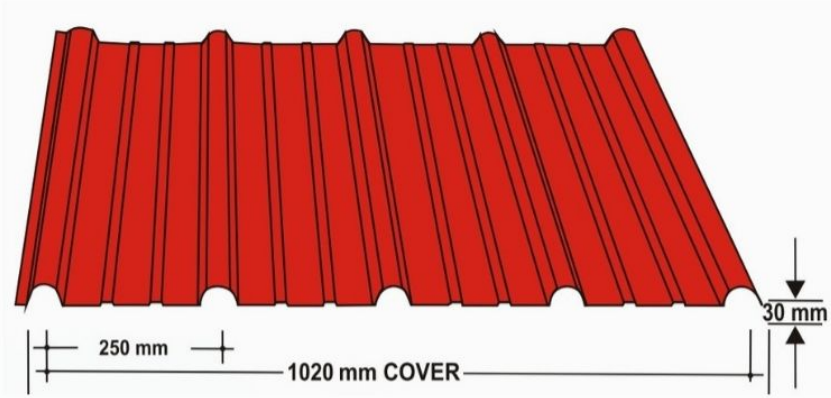
Technical Specifications

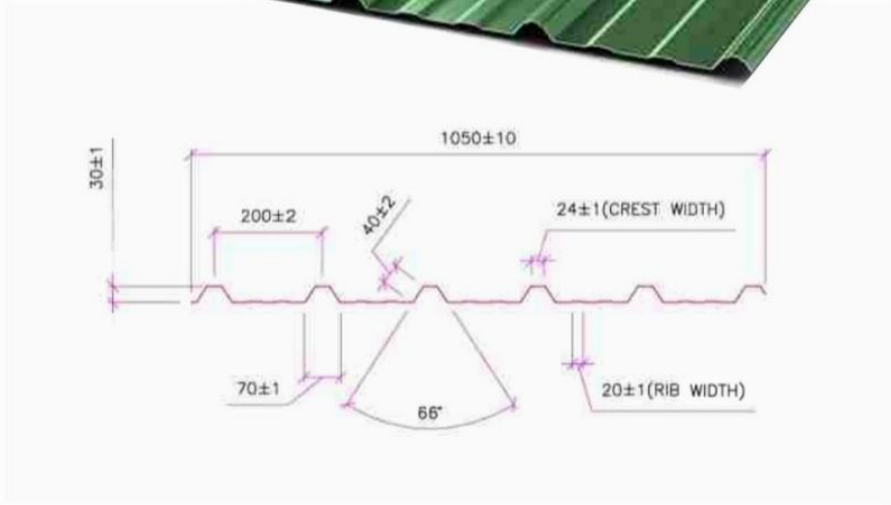
Width-wall	1200mm (STANDARD/CUSTOMIZED)							
Width- roof	993mm							
Core thickness (mm)	30	40	50	60	80	100	120	150
U value (m^2 °K/w)	0.75	0.53	0.43	0.33	0.28	0.22	0.18	0.15
R value (Btu/hr/ft^2 /°F)	9.8	11	13	16	20	26	30	38
Fascia Options	PPGS/PPGL/Alu/Tarfelt/Cement Fiber Board/SS							
Density (Kg/m^3)	40±2 Kg/m^3							
Thermal Conductivity at 10 °C mean Temperature (w/m°k)	0.023							
Compressive Strength at 10% De-formation (Kg/cm^2)	2.1							
Bending Strength (Kg/cm^2)	4							
Tensile Strength (Kg/cm^2)	3.7							
Adhesive Strength (Kg/cm^2)- foam to steel	2.9							
Water Absorption (Volume %)	0.2% at 100%RH							
Closed Cell Content (%)	92-95%							
Vapor Permeability at 90% (RH) & 38 °C(Gms /Hr.m^2)	0.12							
Fire Class	Fire Resistant							

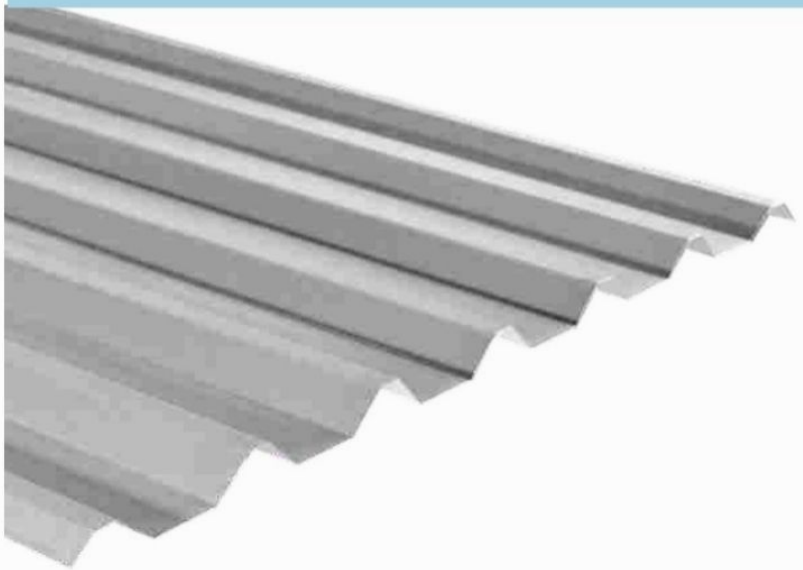
HIGH QUALITY ROOFING & CLADDING SYSTEM

PROFILE SHEET SPECIFICATION

Material Used	Zincalume/Bare Galvalume
Yield Strength	550 Mpa standard 245-500 Mpa optional
Coil Input Width	1220 mm
Sheet width	1050 ± 10 mm
Thickness Range	0.35 – 0.70 mm
Pitch Width	200 ± 2 mm
Crest height	30± 1 mm
Crest Width	24± 1
Length	As per requirement
Colour	As per requirement

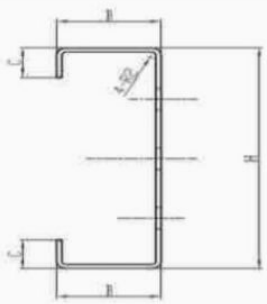


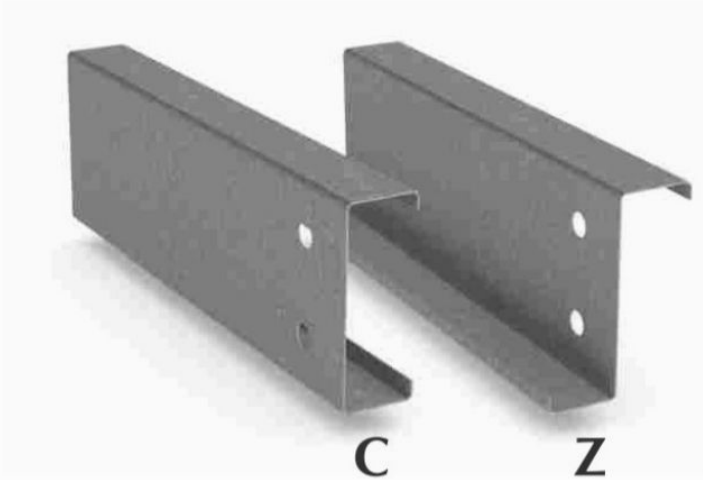




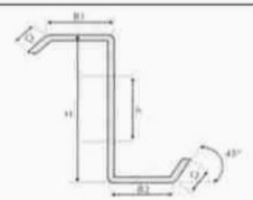
BUILDING COMPONENTS

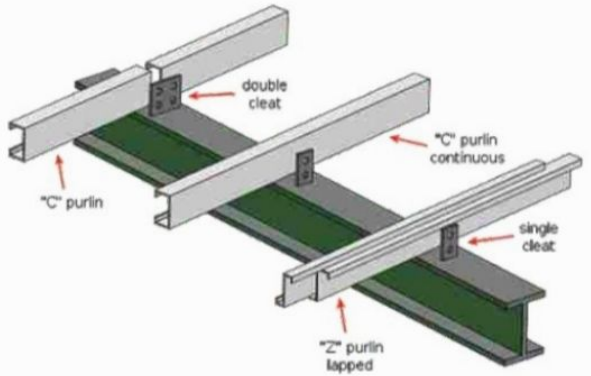
C-PURLIN SPECIFICATION

C Purlin Shape	Model	Section Size				
		H (mm)	h (mm)	B (mm)	C (mm)	t (mm)
	C-80	80	CENTER	40/50	15	1.5-2.5
	C-100	100	50	54	15	1.5-2.5
	C-120	120	50	54	15/20	1.5-2.5
	C-140	140	60	54	20	1.5-2.5
	C-150	150	60	54/64	18/20	1.5-2.5
	C-160	160	60	54/64	18/20	1.5-2.5
	C-180	180	60	64	18/20	1.5-2.5
	C-200	200	100	64	18/20	1.5-2.5
	C-250	250	100/150	64	18/20	1.5-2.5

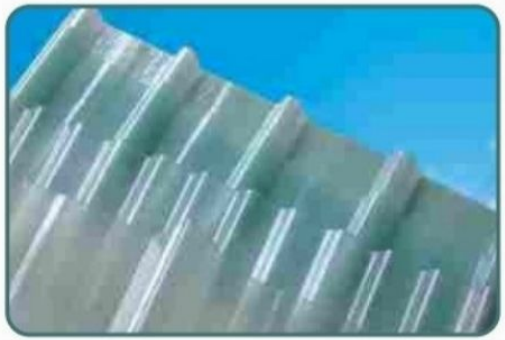


Z-PURLIN SPECIFICATION

Z Purlin Shape	Model	Section Size					
		H (mm)	h (mm)	B1 (mm)	B2 (mm)	Q (mm)	t (mm)
	Z-100	100	50	48/50	52/54	15	1.5-3.0
	Z-120	120	50	50	54	20	1.5-3.0
	Z-140	140	60	50	54	20	1.5-3.0
	Z-150	150	60	50/60	54/64	18/20	1.5-3.0
	Z-160	160	60	56/60	60/64	18/20	1.5-3.0
	Z-180	180	60	60	64	18/20	1.5-3.0
	Z-200	200	100	60	64	18/20	1.5-3.0
	Z-250	250	100/150	60	64	18/20	1.5-3.0



POLYCARBONATE SHEET



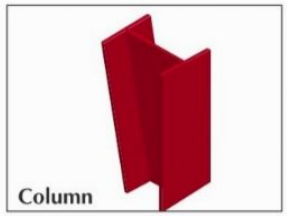
FRP SHEET

PRIMARY FRAMES

Primary Frames, which form the rigid frames of the building and are extensively used in industrial and commercial buildings constructions . We manufacture these frames using highest grade raw material, which is sourced in from trusted suppliers of the market . We can offer primary framing systems in both symmetrical and asymmetrical at the ridge line.

Primary Frames includes :

- Column
- Rafter
- Crane Brackets
- End wall Frames
- Mezzanine beams and joists


Column


Rafter

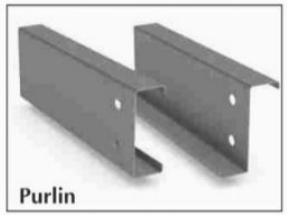

Crane Brackets

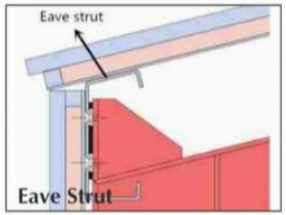
SECONDARY FRAMES

Secondary Frames basically support the roof wall sheeting and provides an effective distribution of load and subsequent stress to the primary frames to provide stability to the building . We offer secondary frames at pocket friendly prices.

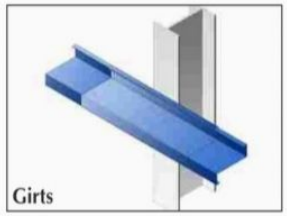
Secondary Frames includes :

- Purlins (C&Z)
- Girts
- Eave Struts
- Bracings
- Miscellaneous Structural Parts


Purlin



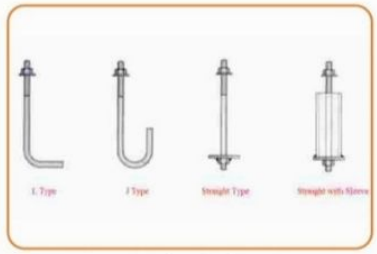
Eave Strut


Girts

MISCELLANEOUS STRUCTURAL PARTS


Metal roofing fasteners


Nuts and Bolts

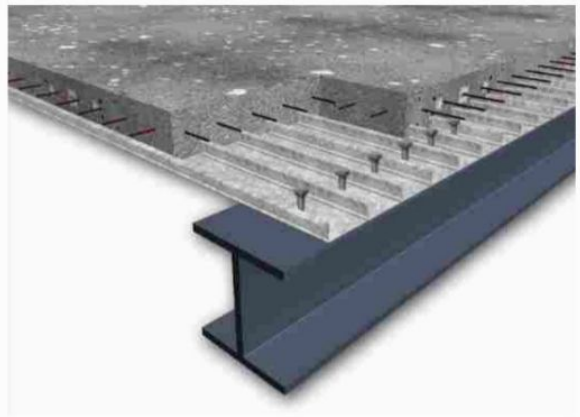

Anchor Bolts


Hillside washer


Sealants


Closures

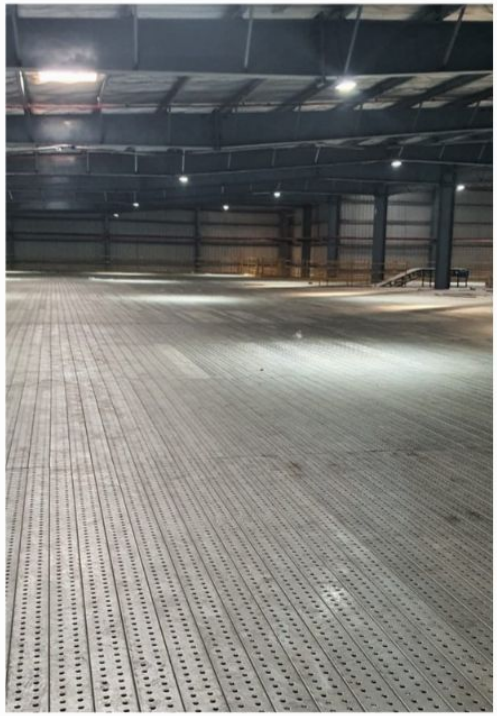
DECKING SHEET



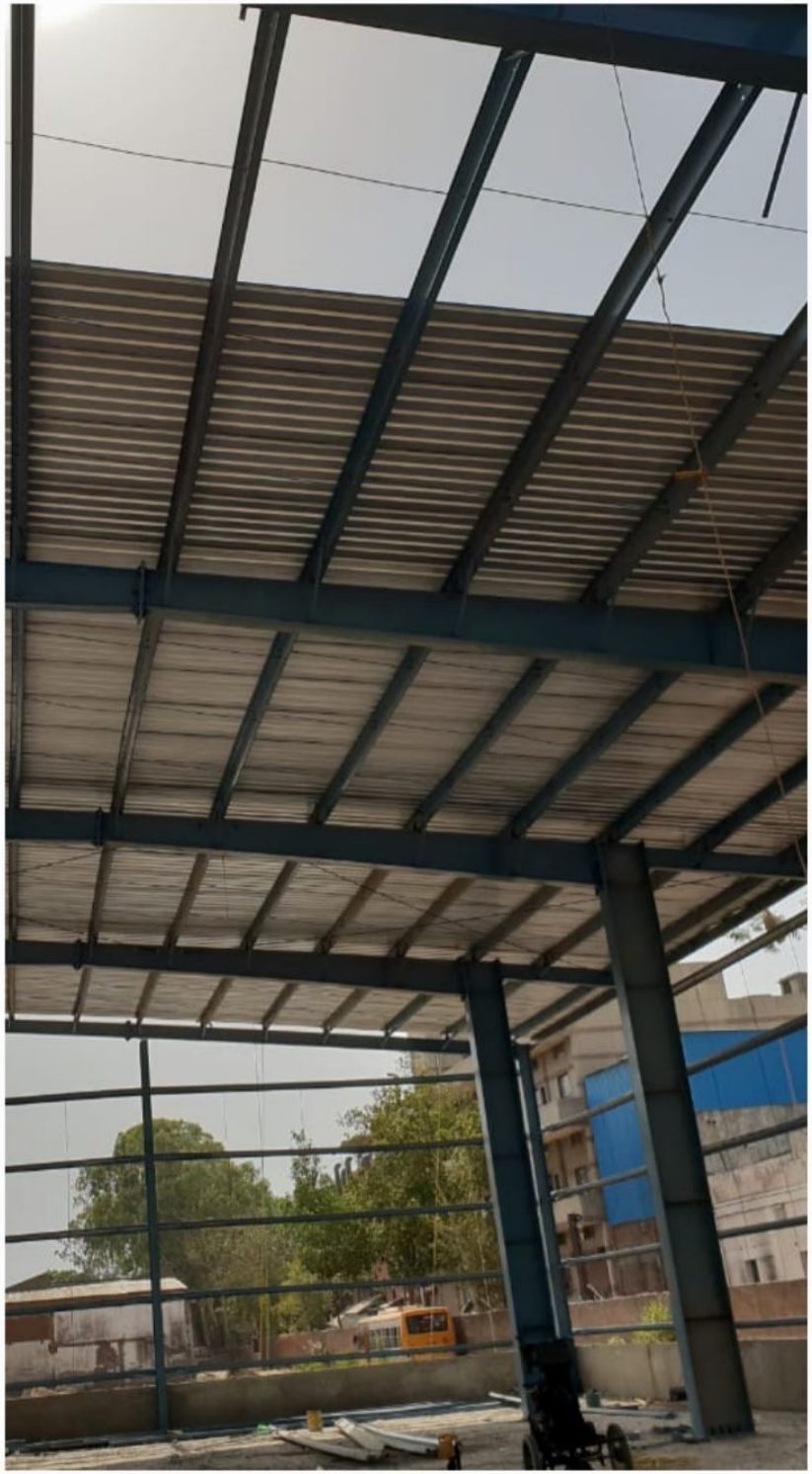
SHEET SPECIFICATION

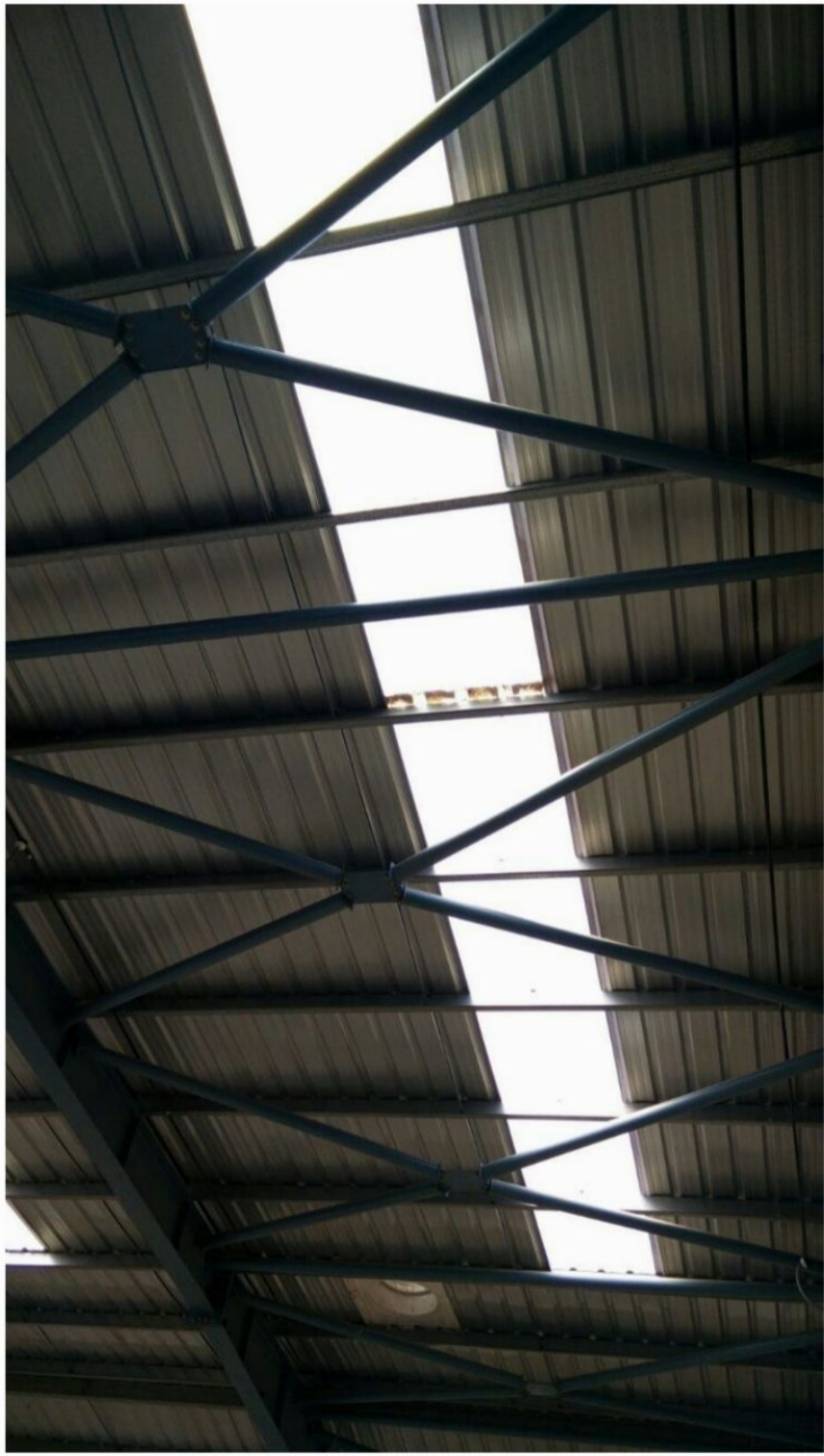
Material Used	HR/CR/Galvanizedsteel
Yield Strength	250 Mpa
Sheet width	950 ± 10 mm
Sheet cover width	910 ± 10 mm
Thickness Range	0.60– 2mm
Length	Upto 12m
Pitch Width	130 ± 2 mm
Crest Height	44± 1
Type	Bare , Primer coated, Galvanized, Pre painted

OUR PROJECTS




KU000149 KONECRANES SWL-5.0t





PLANT AND MACHINERY

CNC PUNCHING MACHINE

CZ PURLIN MACHINE

LGSF MACHINE

CANON FOAMING MACHINE

ROOF PROFILE MACHINE

CONTINUOUS SANDWICH PANEL MACHINE

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