



SELTECH METAL BUILDING & ROOFING SOLUTION

Speed With Quality

Our Services:

Pre-Engineered Building, Factory Shed, Warehouse, Mezzanine, Cold Storage
Multi Story Building, Auditorium, Hanger Building, Toll Plaza, Stadium, Malls
Hospitals, Foot Over Bridge, Roofing & Wall Cladding, Puff Panels
Turbo Ventilator, 'Z' Purlin, 'C' Purlin, Decking Sheets, Solar Mounting Structure



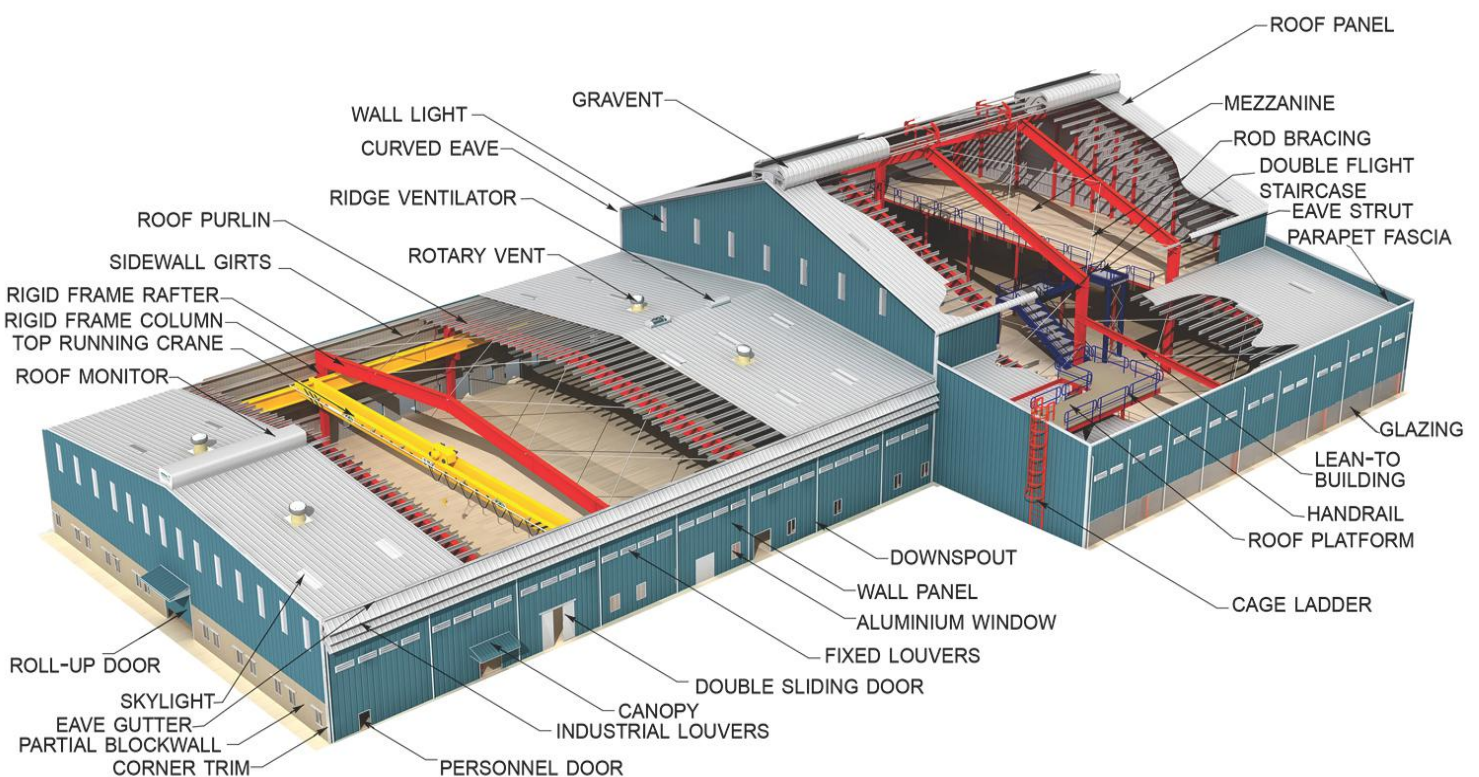
SELTECH METAL BUILDING

ABOUT US

Seltech Metal Building & Roofing Solution holds a strong landmark presence in the steel industry and has been operational since 2012. We are certified in quality management by consistently providing products and services that meet customers and applicable statutory and regulatory requirements, aiming to enhance customer satisfaction through the effective application of the system. Acknowledged as a reputed manufacturer and supplier, we are known for our quality standards and cost effective products.

Seltech Metal Building & Roofing Solution have banked on world-leading technology and have been delivering Pre Engineered Steel Building Solutions- par excellence, in North India since 2012. Spread over a wide area, our sturdy infrastructure offers all the machinery to carry out smooth and expedite manufacturing process. Our skilled employees are professionally trained who helps in timely delivery of the best products to our valuable customers. Being a committed Steel Buildings manufacturer our guiding doctrine is to focus on continuous improvement in our product and service portfolio, along with contributing to prosperity of the human society by creating value through our efficient products.

3D View of Pre-Engineered Building Structure



OUR VISION & MISSION

Vision:

- Working as a catalyst in the growth of industry.
- To become one of the top contributors in the (pre)engineered buildings manufacturing
- Constant focus on cost reduction

Mission:

Consistent with the values, Seltech Metal Building & Roofing Solution strives to strengthen base of PEB industry by utilizing innovative technologies within an environment of experts who aim to achieve the heights of excellence in all it does. We recognize the value of relations, thus seeking long term relations with everyone we come in contact with.

PRE-ENGINEERED BUILDING (PEB):

The construction of a Pre-Engineered Building (PEB) commences with identifying the precise functions the structure will serve and it takes lesser time and is 20 to 30% cheaper than any other conventional method of construction. The steel structure, built over a structural concept of primary members, secondary members and cover sheeting connected to each other, is more flexible, durable, affordable and adaptable and is provided in good quality by us.

Seltech Metal Building & Roofing Solutions with its clear vision and work ethics serves as a reliable name in the northern part of the country as a PEB manufacturer and supplier. We are acknowledged as highly competitive in the market due to various factors like high technical competence, standardization and modularization, close alignment between manufacturing arm and other supply chain partners, to name a few. PEB designed by our expert team is thoroughly checked on the parameters like dimensions, sturdiness and durability, provided as per the set industry norms and guidelines. One of the leading players in North India we have completed many prestigious industrial projects, making our name in infrastructure development and steel industry.

Factors that give our PEB advantage:

- Cost effective steel building solutions
- Precise engineering
- High trade products of consistent quality
- Custom designed solutions that complies with customer specification
- Roof system: up to 60m clear span
- Advanced technology
- Timely delivery of projects
- Efficient and sustainable manufacturing
- Faster installation

WHY SELTECH PEB SYSTEM?

1. Profitability of Clients by Cutting Cost at the Multiple Level

- Start-up cost
- Maintenance costs
- Constructions cost
- Life Cycle Cost

2. High Quality

- High Grade hi-tensile Steel (345 Mpa conforming to ASTM A572 Gr 50)
- Galvalume roofing/wall cladding systems (Imported Coils)
- Light weight structures
- Parameters like Wind Speeds, Loads, Seismic Zone considered and wind loads are considered while designing the building.

3. Time Schedule

As compared to the conventional building the time required by the PEB is just a small fraction. This is so because the components are:

- Pre-welded
- Pre-punched
- Pre-drilled
- Pre-fabricated all in all with per fitments

4. Customized Building as per the need in terms of

- Dimensions of the building (Length/Width/Height)
- Clear Spans or Multiple Bays

5. Flexibility to have Floor Plan as desired or even change

6. Durability

- Corrosion Resistance
- Higher seismic resistance capabilities

7. Energy Efficient Building

- Proper ventilation
- Specific ventilation mechanism to suit individual application

8. Aesthetics

- Contemporary look
- Range of colors

9. Easy to erect and easy to dismantle

10. Knock Down assembly

11. PERIODICAL SERVICES

12. COST EFFECTIVE SOLUTION

OUR PRODUCTS

SELTECH PRE-FAB BUILDING SYSTEMS

SELTECH Pre-fab building system is custom designed to meet client requirement. The basic building parameters are:

BUILDING LENGTH:

The distance between the outside flanges of end wall columns in opposite end wall is considered the building length.

End bay length is the distance from outside of the outer flange of end wall columns of center line of the first interior frame columns.

Interior bay length is the distance between the center lines of two adjacent interior main frame columns.

The most economical bay length is 6m or 7.5m. However bay length up-to 15m is possible.

BUILDING HEIGHT:

Building height is the Eave height which usually is the distance from the bottom of the main frame column base plate to the top outer point of the eave strut. Eave heights up-to 30m are possible. When columns are recessed or elevated from finished floor, eave height is the distance from finished floor to top of eave strut.

ROOF SLOPE (X/10):

This is the angle of the roof with respect to the horizontal. The most common roof slopes are 1/10 and 1/20, though any practical roof slope is possible as per customers requirement.

DESIGN LOAD:

Unless otherwise specified SELTECH Pre-Fab building system are designed for the following minimum loads.

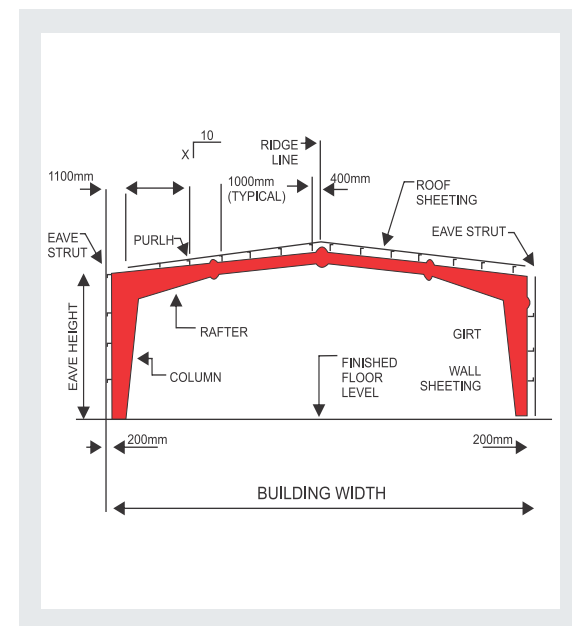
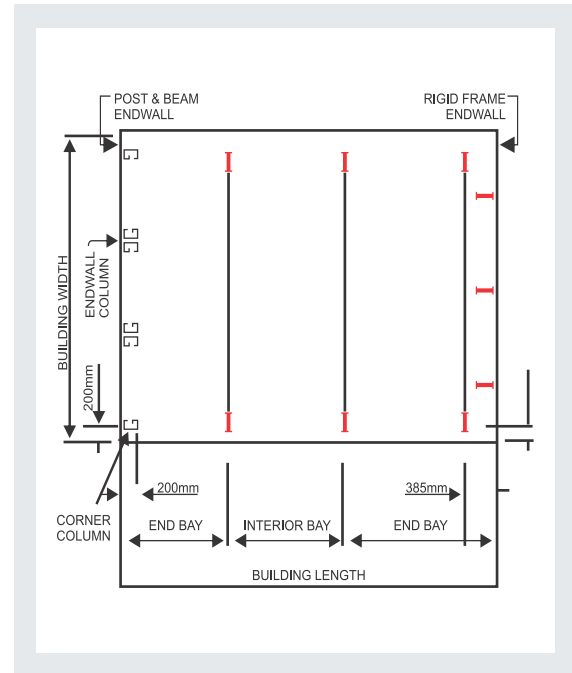
ROOF LIVE LOADS:

0.75 kN/m² Design for snow loads, seismic loads, collateral loads, or any other local climatic condition (if required) must be specified at time of quotation.

Loads are applied in accordance with the latest American codes and standards applicable to pre-engineered buildings unless otherwise requested at the time of quotation.

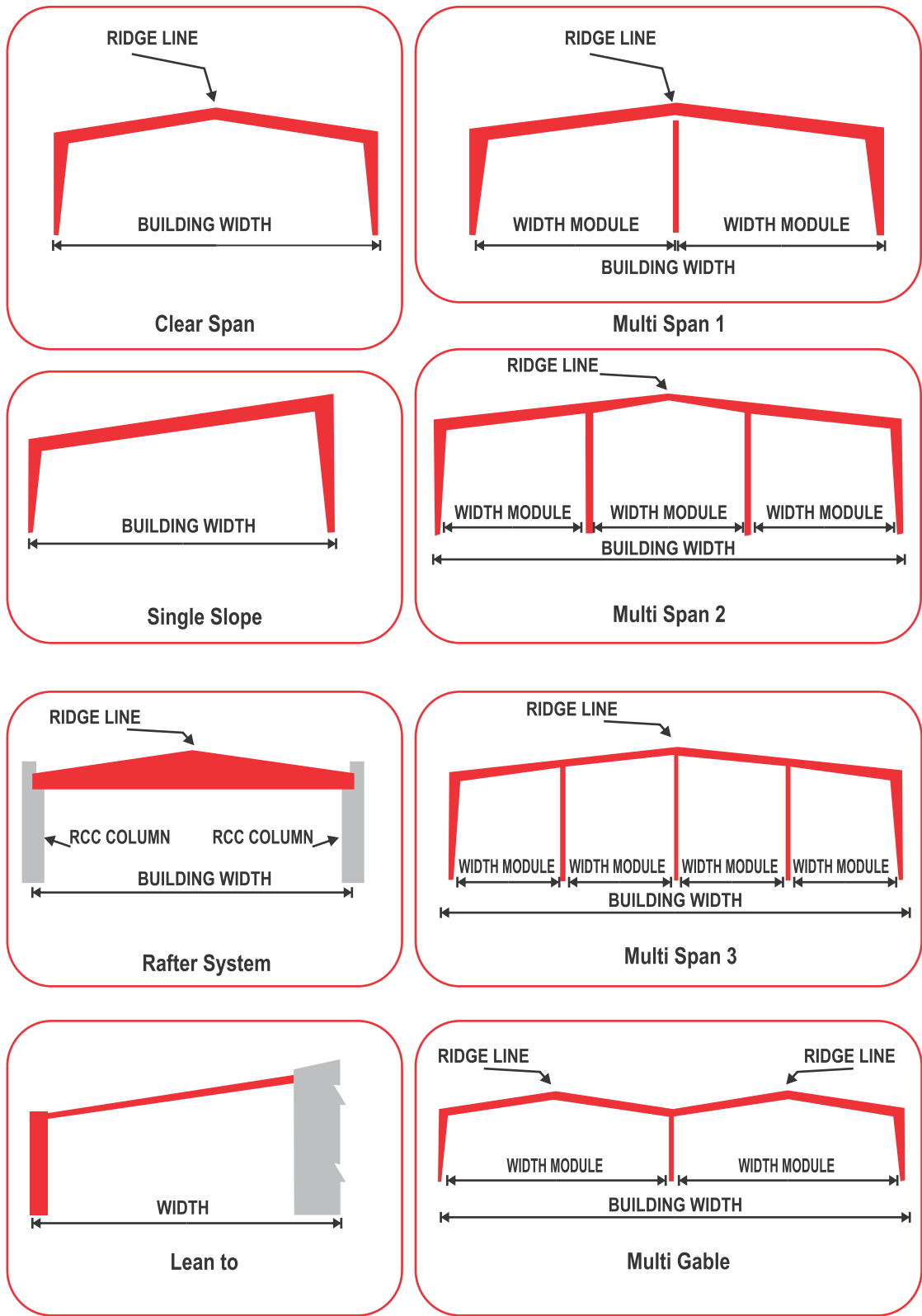
Design Wind Speed:

As per IS : 875 for location



SELTECH PRIMARY FRAMING SOLUTION

The most common primary framing systems are shown below. All are shown symmetrical about the ridge line. Framing systems unsymmetrical about the ridge line and multiplan framing system with unequal width modules are possible but may require more engineering time and probably longer deliveries, practically any frame geometry is possible. Consult us for your specific requirement.



LIST OF MACHINES

CNC Cutting Machine	1 No.
Z&C Purling machine with automatic Slotting & Shearing	1 No.
Hi Rib Profile Machine	1 No.
Mig Machine	4 No.
Arch Machine	8 No.
Drill Machine	9 No.
Plasma Cutting Machine	2 No.
Over Head Crane	2 No.
Chaser Machine	4 No.
Power Press	3 No.
PUG Cutter	5 No.
ROD Bending Machine	0.5"-2.5"
Magnet Drill Machine	600mm, 300mm.
Bending Machine	2 No.
Surface Grinder	12' * 6', 2 pics
Submerged Arc Welding (SAW)	1 No.
DC Generator Welding Set	2 No.



Fabrication Unit-1



Cold Form Unit-2



Z & C Purlin Machine



Sheeting Machine



Saw Welding Machine



CNC Cutting Machine



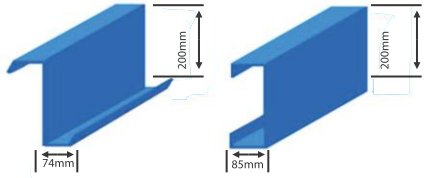
Power Press, Chaser Machine



Bending Machine

BENEFITS

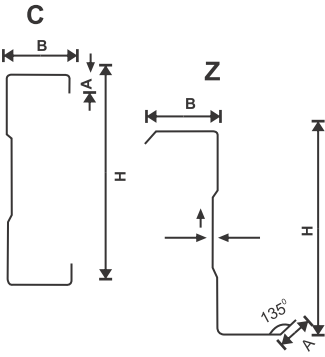
1. Saving in steel up to 40%
2. Saving in construction cost up to 30%
3. Light weight reduces handling and transportation cost.
4. Saving in construction time.
5. Close tolerances on sectional dimensions due to process of cold roll forming.
6. Economy due to reduction in dead weight on the main frame structure.
7. Ability to span long lengths.
8. Fast to erect and easy handling.
9. Assured dimensions and straightness.
10. No site drilling/cutting required.
11. Tailor made section lengths lead to no wastage and speedy erection.
12. Also available in G.I.



Typical "Z" Section Typical "C" Section

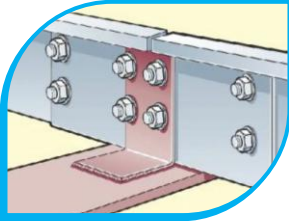
SPECIFICATION

H	B	A	t
60	35	15	1.6~2.0
80	45	15	1.6~2.0
100	45	20	1.6~2.0
100	50	20	2.0~2.5
120	50	20	2.0~2.5
120	60	20	2.0~2.5
140	50	20	2.0~2.5
140	60	20	2.0~2.5
160	60	20	2.0~2.5
160	70	20	2.0~2.8
180	60	20	2.0~2.8
180	70	20	2.0~2.8
200	70	20	2.5~3.0
200	80	20	2.5~3.0
220	70	20	2.5~3.0
220	80	20	2.5~3.0
250	70	20	2.5~3.0
250	80	20	2.5~3.0
300	70	20	2.5~3.0
300	80	20	2.5~3.0

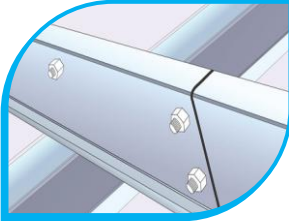


SYSTEM OF CONNECTIONS

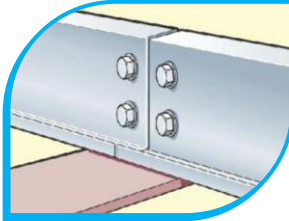
There are three systems of connections based on design of purlin and its connections



Sleeve Connection



Overlapping



But Connection

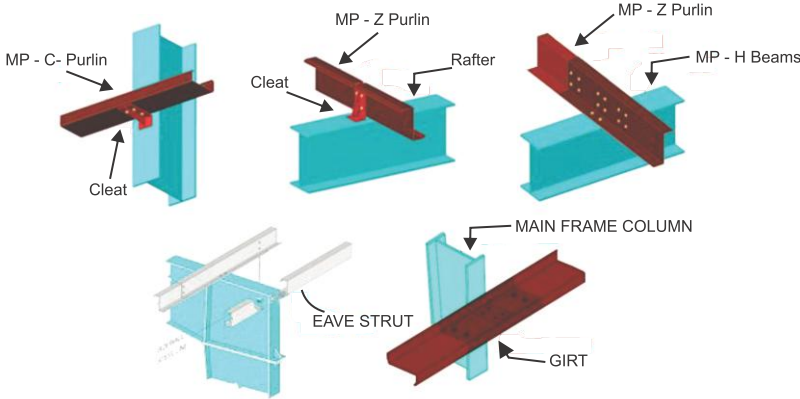
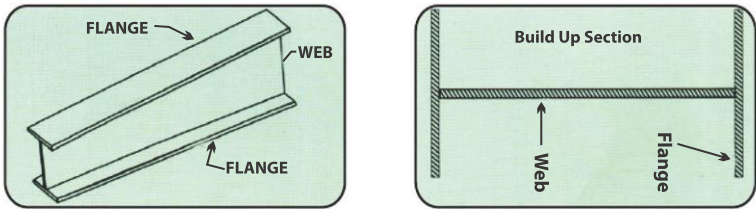
Material:

H - Beams are fabricated from high grade steel plates conforming to IS : 2062, ASTM A572 50, ASTM A570 50, ASTM A572M Grade 345 Typee 1 or Equivalent with a minimum yield strength of 34.5Kn/Sq.cm and are factory painted with a minimum of 25 microns DFT of Red Oxide Primer.

Technical Specification

- Web Height: 200mm - 1500mm
- Web Thickness: 6mm - 32mm
- Flange Width : 200 - 800mm
- Plate Thickness : 6mm - 32mm
- Length : Upto 12000mm

H-BEAM



SELTECH MATERIAL

The materials that we use for manufacturing are of high quality Galvalume, PPGI, G.I. CR. and high tensile for Pre-Fab Structure and are sourced from the best manufacturer.

Technical specification of Seltech Pre-coated G.I. Steel

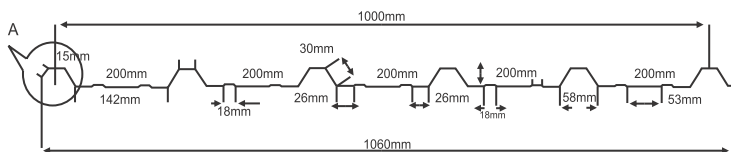
Substrate	:	IS 513 Cold Rolled Steel Coils
Tensile Strength	:	240Mpa-550Mpa
Galvanizing	;	As per IS 277
Zinc Coating	:	120 GSM - 150 GSM
Pre-painting	:	IS 14246
Type of Coating	:	RMP/SMP
Total Coated Thickness (TCT)	:	0.50mm - 0.80mm

Technical specification of Galvalume

Substrate	:	55% Aluminium, 43.4% Zinc & 1.6% Silicon
Tensile Strength	:	550Mpa
Coating Standard	:	As per As 1397-1993
Coating Mass	:	AZ 150
Base Metal	:	High Tensile Steel
Tensile Strength	:	550 Mpa
Total Coated Thickness (TCT)	:	0.47mm - 0.60mm

SELTECH Hi-Rib Roofing Solution

Seltech Hi-rib Roofing Profile is manufacture from Pre-painted Galvanized steel (PPGI)/ Al-Zn Alloy coated steel (Bare Galvalume) and Color Coated Al-Zn Alloy coated steel (Color Coated Galvalume) with a cover width of 1010mm, overall width of 1050mm, pitch of 200mm and a crest height of 30mm, with two stiffening ribs in between. Seltech Hi-rib Roofing can be fixed on both roof and wall cladding and any slope and height as per the designers choice.



SELTECH HI-RIB PROFILE

DATA TABLE		Thickness of Base Metal (mm)	Thickness of total Coated Metal (mm)	Mass per unit area (kg/m ²)
Galvalume / Zinalume		0.42	0.47	4.20
Galvalume/Zinalume Colour Coated		0.45	0.50	4.56
Colour Coated Galvanized Steel		0.45	0.50	4.50

PROPERTIES TABLE			TOP IN COMPRESSION			BOTTOM COMPRESSION		
THK mm	Weight kg/m ²	Fy kg/cm ²	Ix cm ⁴	Zx cm ³	Mn kg-cm	Ix cm ⁴	Zx cm ³	Ma kg-cm
0.42	4.42	5500	5.25	2.23	7352	2.51	1.52	5002
0.45	4.45	2750	5.63	2.39	3940	3.02	1.93	4222
0.50	4.95	2750	6.25	2.65	4375	3.47	2.28	4985

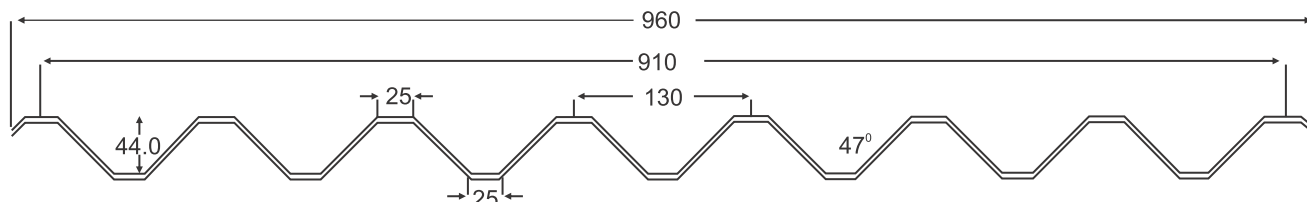
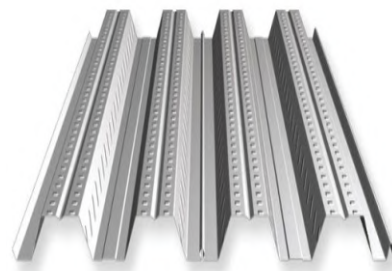


SELTECH HI-RIB

SELTECH DECK SYSTEMS

Seltech Deck can be used as a composite floor system or as a permanent formwork. The fast and simple installation of this high strength platform gives immediate access to a walking platform. It saves considerable construction time which in turn saves in overall cost, safety and accessibility of the project.

Seltech Deck is cold formed in 44mm depth, 130mm pitch, cover width of 910mm and overall width of 690mm out of galvanized and HR Coils in the thickness of 0.80mm to 2.5mm.



Sr. No	Thickness MM	Weight Sq/m	Weight Kg/m	Area cm **2	Iyy cm **4	Ixx cm **4	Zyy cm **3	Zxx cm **3	Ryy cm	Rxx cm
1	0.60	6.37	5.80	7.39	19.29	5567	8.34	119.71	1.62	27.44
2	0.80	8.50	7.74	9.86	25.73	7723	11.08	115.59	1.62	27.44
3	1.00	12.29	10.20	12.32	33.38	9278	15.17	194.48	1.61	27.44
4	1.20	12.43	11.56	14.73	38.32	11099	16.32	232.49	1.61	27.44
5	1.60	16.57	15.37	19.58	50.81	14766	21.41	309.12	1.61	27.44
6	2.00	20.71	19.14	24.39	63.02	19398	26.24	384.89	1.60	27.46
7	2.50	25.89	23.94	30.49	78.81	19936	32.46	481.06	1.60	27.46

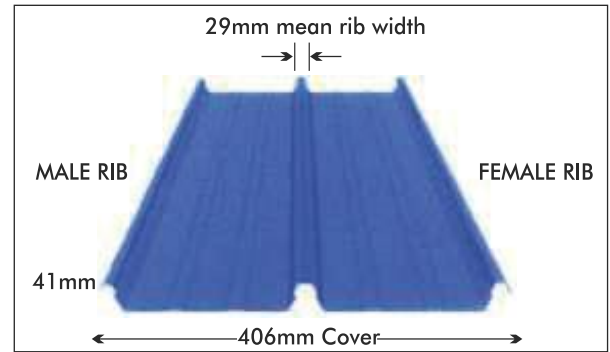
MATERIAL	GALVALUME	PRE-COATED	GALVANIZED
Thickness	0.47 - 1.6	0.5 - 1.6	0.45 - 1.6
Coating	Alu-Zin 150GSN	Zinc 120GSN	Zinc 120GSN
Length	Upto 12 Mtr	Upto 12 Mtr	Upto 12 Mtr
Color	As per Color Shed	As per Color Shed	As per Color Shed
Strength	340	240-340	240-70

Sr.No.	Thickness	1	1.2	1.4	1.5	1.6	1.7
1	0.45	500.0	370.0	270.0	235.0	205.0	185.0
2	0.50	590.0	410.0	300.0	260.0	230.0	205.0
3	0.55	645.0	445.0	329.0	285.0	250.0	220.0
4	0.60	700.0	485.0	355.0	310.0	275.0	240.0
5	0.65	760.0	525.0	385.0	335.0	295.0	260.0
6	0.80	930.0	640.0	475.0	410.0	360.0	320.0

SELTECH CLIPPON SYSTEM

SELTECH CLIPPON SYSTEM

SELTECH Clippon profile is designed to be fixed to roof purlin or wall gir with fixing clips which is concealed during installation and require no fastening holes through the shed. As Clippon fixing method screws are visible so there are no screw penetration. The clips are fixed directly on the support with only 2 Nos fasteners per clip thus provides positive engagement in the ribs.



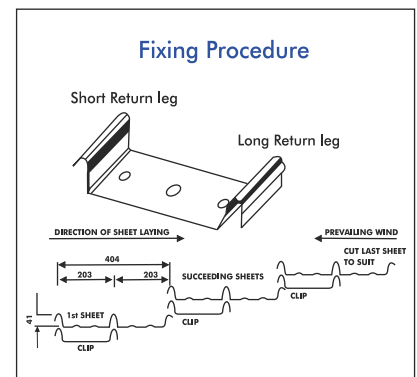
DATA TABLE	Thickness of Base Metal (mm)	Thickness of total Coated Metal (mm)	Mass per unit area (kg/m ²)
Bare Galvalume® Steel	0.50	0.55	5.97
Colour Coated Galvalume® Steel	0.50	0.55	6.03
Colour Coated Galvalume® Steel	0.53	0.58	6.37

PROPERTIES TABLE			TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
THK. mm	Weight kg/cm ²	Fy kg/cm ²	Lx cm ⁴	Zx cm ³	Mn kg-cm	Lx cm ⁴	Zx cm ³	Ma kg-cm
0.50	6.02	2750	12.43	3.92	8602	7.10	3.82	6303
0.60	7.15	2750	14.92	4.70	10314	9.00	5.02	8283

1. Weight are based on cover width for BMT as shown. Substrate is galvalume steel (150 gms/m² coating mass).
2. Properties of profile are calculated in accordance with IS-801. Section properties take into account reduced width of compression flange in accordance width IS-801.

LOAD ALLOWED KPA

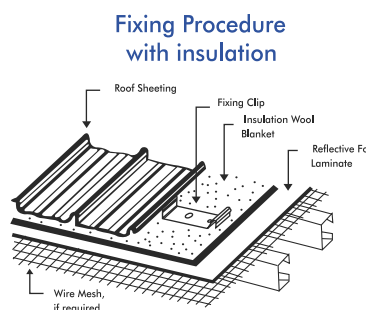
Thk. mm	Wt. Kg/m ²	Fy Kg/m ²	Wind Load						Span (mm) Live Load						Deflection (mm)					
			900	1200	1500	1800	2100	2400	900	1200	1500	1800	2100	2400	900	1200	1500	1800	2100	2400
0.50	6.02	2450	4.65	3.49	2.59	2.01	1.80	1.37	7.12	4.01	2.57	1.75	1.31	1.00	1	2	4	5	7	9
0.60	7.15	2450	5.99	4.50	3.60	2.75	2.14	1.64	9.37	5.27	3.37	2.39	1.72	1.32	1	3	4	6	8	10



Gutter Size (as per rainfall)

Rainfall Intensity	Roof Slope						
	1°	2°	3°	5°	7.5°	10°	
100	-	235	275	342	408	469	
150	-	156	183	228	272	313	
200	-	117	138	171	204	235	
250	-	94	110	137	163	188	
300	-	78	92	114	136	156	
400	-	59	69	86	102	117	

Penetrations will alter the flow of water on a roof. For assistance in design of roof with penetrations, please seek advice from SML.



Maximum Support Spacing (mm) for HI-RIB

Type of Span	Total Coated Thickness (mm)		
	0.40	0.45	0.50
Roofs			
Single Span	800	950	1300
End Span	1100	1200	1400
Internal Span	1550	1750	2050
Walls			
Single Span	1200	1700	1900
End Span	1800	2450	2600
Internal Span	2400	2850	3000

SELTECH PROJECT & ERECTION PROCESS

1



2



3



4



5



6



LIST OF MAJOR PROJECTS

S.No.	Project Name	Area (Sq.Ft.)	Location
1	Ovo Farm	30,000	Odisha
2	Associated Ceramic Limited	80,000	Dhanbad
3	Tata Progressive Motors Pvt. Ltd.	15,000	Agatala
4	Reliance Ltd.	20,000	Kanpur
5	Swati Chemical Industries	24,000	Kanpur
6	NCC Ltd.	1,00,000	Lucknow
7	IOCL	10,000	Lucknow
8	Shri Siddhi Vinayak Enterprises	8,000	Ghaziabad
9	Chaudhary Crane Services	8,000	Gr. Noida
10	Bhasha Associate	25,000	Bhopal
11	Samagree Food Products	9,000	West Tripura
12	Bhogi Consumer Products Pvt. Ltd.	35,000	Assam
13	Shri Ram Hyundai Showroom	15,000	Madhya Pradesh
14	Aradhya Metal	9,000	Haryana
15	J.P.G Engineers Pvt. Ltd.	15,000	Gr. Noida
16	Karam Food Products Pvt. Ltd.	20,000	Madhya Pradesh
17	Greno Pipes	20,000	Sonipat
18	New Holland Tractors India Pvt. Ltd.	1,00,000	Gr. noida
19	P.K. Packaging	40,000	Guwahati
20	Manikal Industries	12,000	West Tripura

COLOR PATCH



Sky Blue
(RAC 5012)



Off White
(RAC 9002)



Capric Blue



Mist Green



Environmental Green



Torres Blue



Brick Red



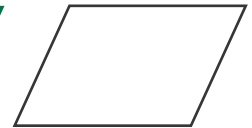
Terracota



Orange



Mose Green



Appliance White

SELTECH AIR VENTILATOR



TABLE A : REQUIRED AIR CHANGE RETES

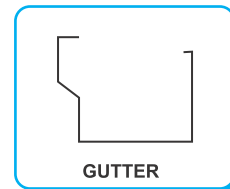
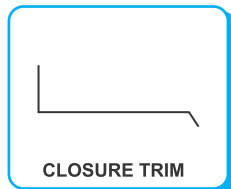
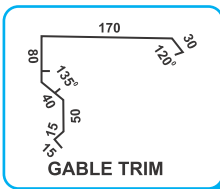
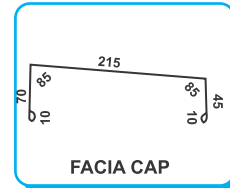
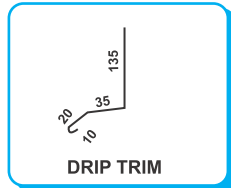
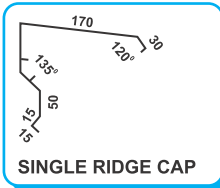
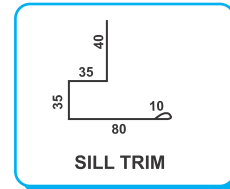
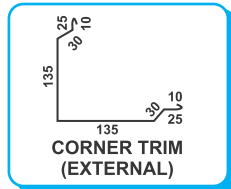
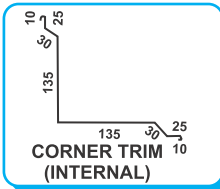
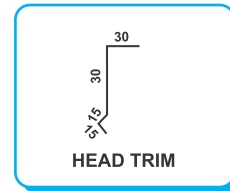
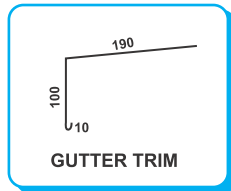
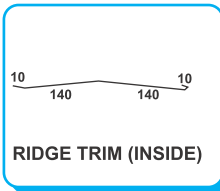
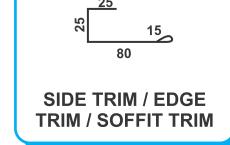
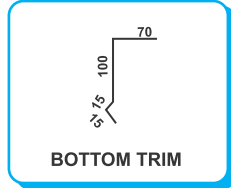
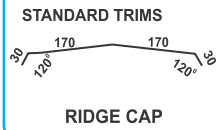
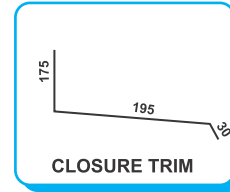
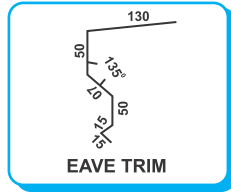
Type of Building	Air Change @per Hour	Type of Building	Air Change @per Hour
Ware House	4 - 6	Engine room / Laundry & plastic Factory	10 - 30
Textile Mill / Auditorium	8 - 15	Heavy Factory / Transformer Room	15 - 40
Factories (Light) / Hall	6 - 12	Paper Mill / Brewery Oil mill / Packing Room	15 - 60
Paper mill / Brewery Oil Mill / Packing Room	8 - 30		

TABLE A : REQUIRED AIR CHANGE RETES

WIND Velocity (mph)		5			8			10		
Temp Diff °C		3	5	10	3	5	10	3	5	10
Model No.	STACK (Height (Ft.))	Exhaust Capacity CPM								
HAV. 500	10	939	1000	1102	1436	1498	1600	1792	1858	1958
	20	1005	1084	1216	1503	1582	1714	1859	1938	2070
	30	1058	1154	1314	1556	1652	1812	1916	2010	2168
	40	1107	1216	1394	1605	1714	1896	1961	2070	2252

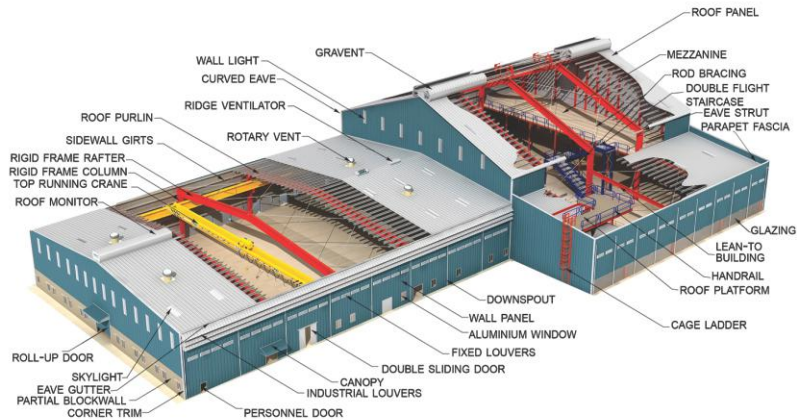
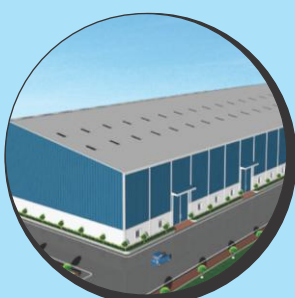
SELTECH FLASHING & TRIMS

Standard Flashing and Trims



FABRICATION ACCESSORIES





Framing System



Wall Cladding



Insulated Roof



Roof Skylight



Turbo Ventilators



Roll-Up Door



Wall Light



Fabrication



Steel Structure

SELTECH METAL BUILDING & ROOFING SOLUTION

(VEDANSHI INDUSTRIES INDIA PVT. LTD.)

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 B.O. : H-25, H-35, Site-C, Surajpur Industrial Area, Greater Noida - 201306 (U.P.)

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