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Riddhima Building System
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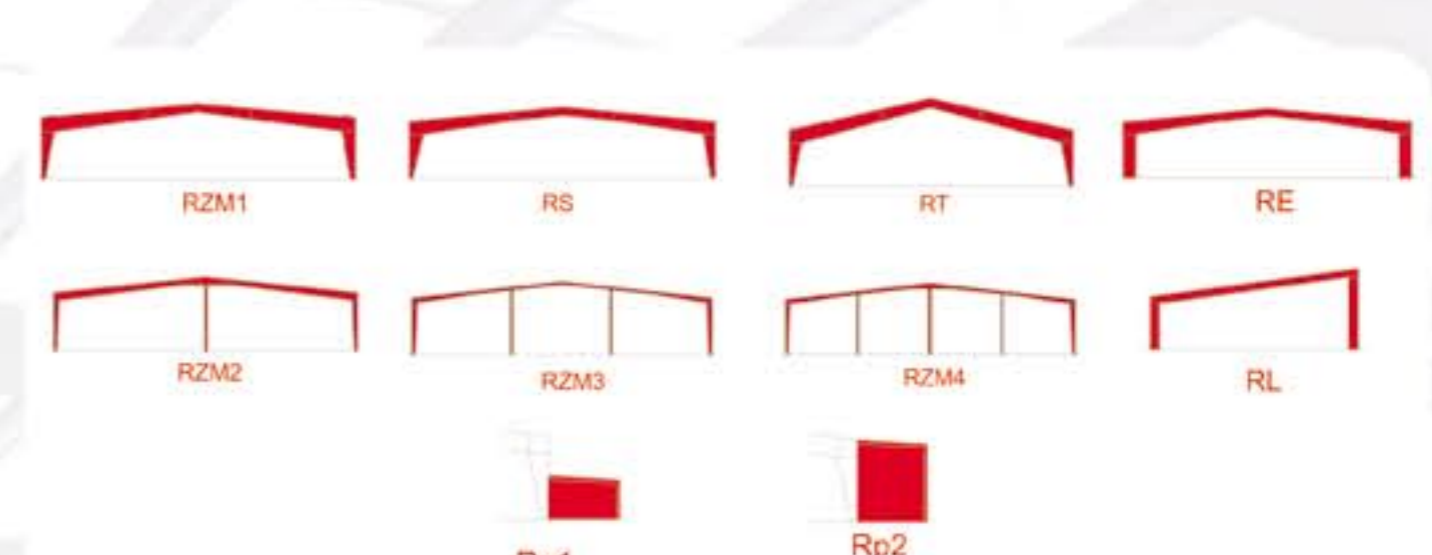
Introduction

M/s. RIDDHIMA BUILDING SYSTEM is a Faridabad based organisation specialising in Pre Engineered Building, Roofing and False Ceiling. It was founded in late 2000, and has already been started penetrating the industrial market with full swing. RBS promoters started their career in early 2002, and today they are the major suppliers of Architectural products to big houses.

RBS today has succeeded in carving a niche for itself in the fast growing PEB, Roofing and False Ceiling business. The Company operates from its corporate office located at F-245, SGM NAGAR, NIT, FARIDABAD, HARYANA. The organization has grown manifold since its inception because of the crux of all its operations, is a culture where we do not make compromise with Quality in our products and services. Needless to say this would have been a herculean task had it not been for our dedicated team of young and dynamic professionals. RBS is an organization, waiting in the wings to take off. RBS represents a highly professional and pragmatic approach and our motto is to give full satisfaction to our esteemed customer with best services in Steel Building products. Our Vision and the strategy is to continuously broaden and enhance the product line so as to offer increasingly versatile design applications to Pre-engineered building, Roofing system and False ceiling.

PRIMARY FRAMING SYSTEM

Primary framing consists of all the structural elements which transfer loads to the foundations. Main-frames consist of built-up welded primary framing members, including flange bracings, connection bolts and anchor bolts. The bases of the intermediate frames are generally pinned; however, certain circumstances may dictate the use of fixed constructions.

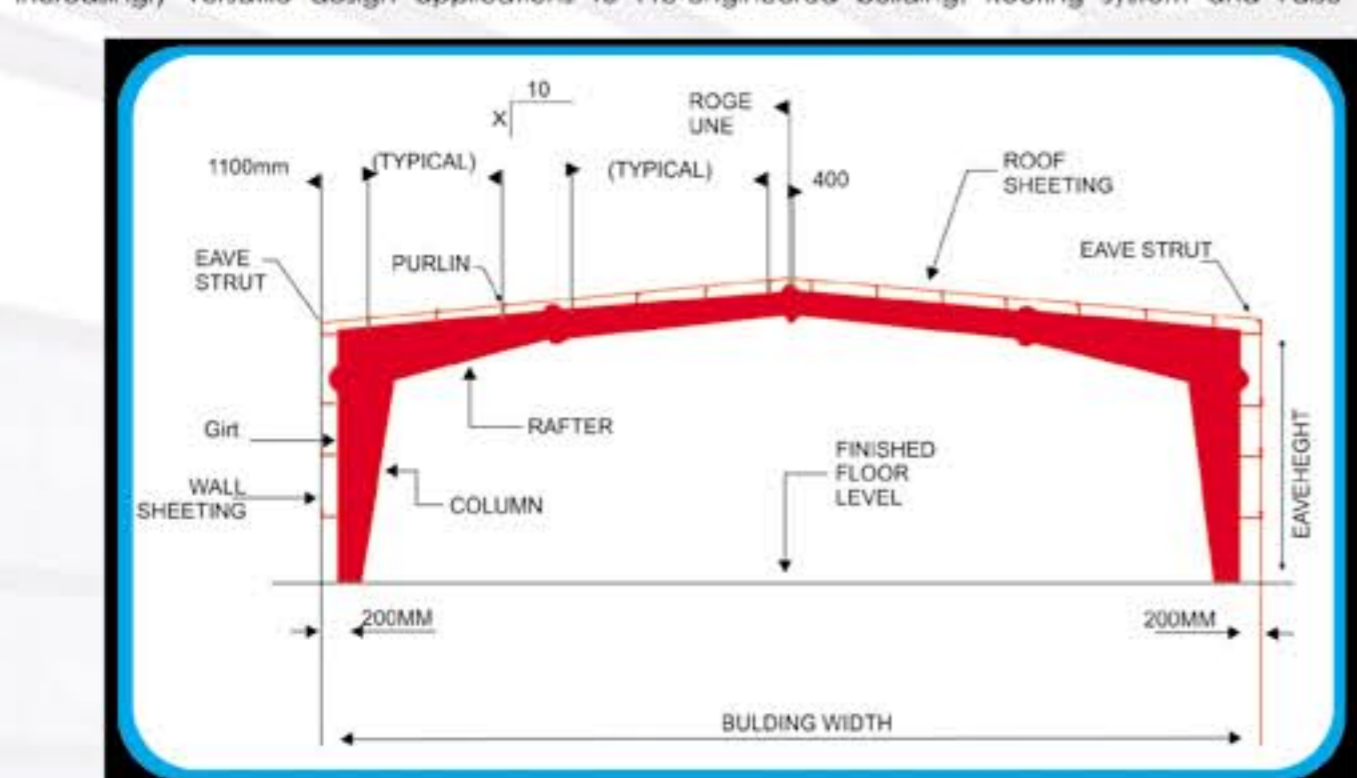


Secondary Framing

Secondary framing consists of the elements which support the roof and wall sheeting and which transfer loads to the primary framing:

- Roof purlins
- Wall girts
- Framing of openings

Purlins and girts are galvanized Z sections, produced by cold roll forming. Connections are made using galvanized bolts. Framings of openings essentially consist of cold-formed L, C, U or Z galvanized sections.



METAL BUILDING SYSTEM

RBS METAL building system a custom design to meet client requirement. The basic building parameters are:

- Building Length: The distance between the outside flanges of end wall columns in opposite end walls 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 are 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 level 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 1/2-0, through any practical roof slope is possible as per customers requirement.
- Design Load: RBS building system are designed for the following minimum loads. The metal building will be design with INDIAN STANDARD codes and AMERICAN CODES as required. The building loads will be calculated with the required code as suggested.

ROOFING SYSTEM

The Multitec built-up roof system consists of ribbed steel panels and allow the application of a built-up roof system. The steel panel is fixed to the secondary framing by self-drilling screws. The panel overlaps are fastened with stitching screws. The secondary framing is normally Z purlins fixed with 1.5m purlin spacing to the primary framing. The thermal insulation varies depending on the type of the built-up roof adopted.

- Advantages:
- Simple and economical parapets
 - Can be used for complex roof shapes
 - Economical rain water drainage
 - High degree of thermal insulation (depending on the specification of the built-up roof system)
 - Integrated peak height
 - Fully regulated accessories: skylights, smoke vents, polycarbonate vaults, roof curbs
 - A cost-effective and practical solution
 - An increase of safety and water tightness thanks to the strength of its fixation
 - Attractive and economical
 - Easy to install
 - Cost-effective energy efficiency
 - Long-term performance

Roofing and Wall Cladding Systems:

TECHNICAL SPECIFICATION OF PPGI	TECHNICAL SPECIFICATION OF GALVALUME
Substrate : IS 513 Cold Rolled Steel Coils Tensile Strength : 240Mpa-350Mpa 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	Substrate : 55% Aluminum, 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 Total Coated Thickness (TCT): 0.47mm - 0.60mm

RBS CLIP-LOCK SYSTEM

This profile is designed to be fixed to roof purlins or wall cladding in order to have a puncture free roof with concealed fastening. This system is manufactured from Bare Galvalume / Zincalume and Color Coated Galvalume / Zincalume and PPGI. The profile is formed in the standard width of 450mm with a pitch of 225.00mm and crest height of 40mm. RBS Clip-lock System is available up-to any length depending upon the requirement of the size. RBS Roofing sheet is available in the following base materials in standard execution.

Description	Total Coated Thickness (mm)	Approx. mass per unit Kg./m2	Approx. mass area coverage ton
Bare Galvalume	0.47mm	5.10	196
Color Coated Galvalume	0.50mm	5.25	190
Color Coated Galvalume	0.55mm	5.85	171
Color Coated Galvalume	0.60	6.25	155

Insulation

Insulation consists of a fibre glass blanket with a laminated vapour barrier. Isoblocs significantly reduce thermal bridges and Alustrip improves the overall appearance of the insulation joints. The fibre glass blanket consists of a flexible blanket of high quality fibre glass, based on a thermo-setting synthetic resin with a homogeneous fibre fleece and long fibres, without residual or reused materials.

- Density: 16kg/m³
- Thermal conductivity: 0.037W/(m²K)
- Nominal thicknesses: 40, 60, 80 and 100mm
- Lengths: Factory cut-to-length rolls to suit each project
- Packaging: in perforated polybags and labelled for correct identification on jobsite

Vapour barriers

Consist of a glass-scrim reinforced film bonded to the fibre glass blanket. The vapour barrier is wider than the actual insulation width, creating overlaps strengthened by double glass-scrim reinforcement (80mm) for stapling together.

Isobloc

Isoblocs are insulating strips made of extruded polystyrene boards. Isoblocs are located over purlins and significantly reduce thermal bridges.

Alustrip

Alustrip is a colour coated strip stretched over purlins and located under the side laps of the layers, in order to ease erection and to improve interior aesthetics. N.B.: delivery of Alustrip is optional.

RBS HI-RIB Profile

RBS 250 HI-rib Profile is manufacture from Pre-painted Zincalume/ Galvalume steel (PPGI) AL-Zn Alloy coated steel AZ-150 as per ASTM-1397 (Bare Galvalume) and color coated Al-Zn Alloy coated steel (Color Coated Galvalume) with a cover width of 1020mm, overall width of 1060mm, pitch of 250mm, and a crest height of 32mm. RBS 250 Hi-rib Profile can be fixed on both roof and wall cladding and any slope and height as per the designers choice.

SPECIFICATION

DATA TABLE	Thickness of Base Metal (mm)	Thickness of Total Coated (mm)	Mass Per Unit Area (Kg./m2)
Zincalume/ Galvalume	0.42	0.47	4.25
Zincalume/Galvalume Colour Coated	0.42	0.50	4.35
Colour Coated Galvanised Steel	0.45	0.50	4.56

FLASHING & TRIM

RBS ALSO PROVIDE SOLUTION FOR TURBO VENTILATORS, FRP SHEETS, POLYCARBONATE SHEETS. To provide the customers with an added advantage of solution under one roof, RBS lend support in providing FRP Sheet, Polycarbonate Sheets as per the required Profiles and upto a thickness of 4mm. Heavy Duty SS and Aluminum Turbo Ventilators with FRP Base and Insulation Solution sourced from reputed manufacturer assuring of best quality and most competitive price.



MEZZANINE BUILDING

Description
 Mezzanines are an important feature of many industrial and commercial/retail buildings, both to suit requirements of modern stocking and storage techniques and to maximise the efficiency of machinery layouts and production flows. Multidek is an in-situ concrete solution with the cast on metal decking, which can be laid continuously, allowing design, optimisation of sections to reduce weight and cost.

- Maximum flexibility for positioning and size of openings, even after completion of the mezzanine design and construction
- Multidek beam spans up to 9m
- Floor beam spacing are usually 3m

- Advantages
- Single source supply for mezzanine and building
 - Integrated design of the mezzanine in the building
 - Maximized use of building space
 - Reduced construction time: simultaneous erection of mezzanine and the building
 - Guaranteed quality by use of precast elements, in steel or in concrete

DECK PROFILE PIC

Sr. No.	Thickness (MM)	Weight (Sq/m)	Weight (Kg/m)	Area (Cm ²)	I _{yy} (Cm ⁴)	I _{xx} (Cm ⁴)	Z _{yy} (Cm ³)	Z _{xx} (Cm ³)	R _{yy} (Cm)	R _{xx} (Cm)
1	0.6	8.37	5.8	7.39	10.29	5567	8.34	119.71	1.62	27.44
2	0.8	8.5	7.74	9.86	26.73	7723	11.08	115.59	1.62	27.44
3	1	12.29	10.2	12.32	3.38	6278	15.17	194.48	1.61	27.44
4	1.2	12.43	11.56	14.73	38.32	11099	16.32	232.49	1.61	27.44
5	1.8	16.57	15.37	19.58	50.81	14766	21.41	309.12	1.61	27.44
6	2	20.71	19.14	24.39	63.02	19398	26.24	384.89	1.6	27.46
7	2.5	25.89	23.94	30.49	78.81	19936	32.46	481.06	1.6	27.46

Material	Galvalume		Pre-Coated		Galvanized	
	Thickness	0.47-1.6	0.5-1.6	0.45-1.6	0.45-1.6	0.45-1.6
Coating	Alu-Zn 150GSSN	Zinc 120Gsn	Zinc 120Gsn	Zinc 120Gsn	Zinc 120Gsn	Zinc 120Gsn
Length	Upto 12Mtr		Upto 12Mtr		Upto 12Mtr	
Color	As per Color Shed		As per Color Shed		As per Color Shed	
Strength	340		240-340		240-700	

Sr. no.	Thickness	Span in Meter					
		1	1.2	1.4	1.5	1.6	1.7
1	0.45	500	370	270	235	205	185
2	0.5	590	410	300	260	230	205
3	0.55	645	445	329	285	250	220
4	0.6	700	485	355	310	275	240
5	0.65	760	525	385	335	295	260
6	0.8	930	640	475	410	380	320



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