



Clear
unobstructed spans



100%
leak proof



Zero
maintenance



No bird
nuisance



Long
life



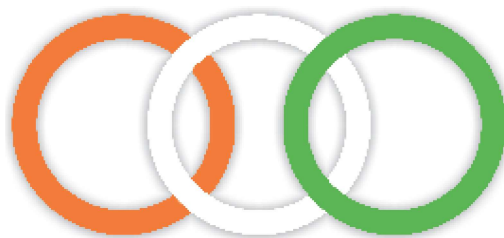
Aesthetically
appealing



Fastest
roofing solution



Cost
effective



SWARAJ
ROOFING SOLUTIONS

Perfection with Excellence

ISO 9001 : 2015 Certified Company

R o o f i n g S o l u t i o n s f o r

Industrial | Indoor Stadium | Warehouse & Logistics | Railways | Marriage halls & Lowns



heights of excellence

ABOUT US

Swaraj Roofing Solutions is one of the India's fastest growing steel building solution company, situated in Pune. We design, manufacture, supply and erect Pre-Engineering Building Systems, Self Supported Roofing System, complete roofing and wall cladding solutions. SRS is one of the few manufacturers in India to have a fully Integrated plant for Pre Engineered Building, Roof & Wall Panels, Z & C Purlin, Floor Deck Sheets etc. SRS is manufacture of self supported roofing systems.

SRS has production capacity to produce total of 2500 tons/month of steel building. Adherence to the internationally accepted engineering practices in production, planning and control helps to keep up the delivery dates, products quality and efficient implementation.

SRS is a high quality Solution for your all type of requirements. SRS thoroughly understands the Complexities in project Management and has an attitude of beating Schedules uncompromised safety, transparent dealings, sharing expertise, Eco caring, continual improvement and above all SRS does not settle for anything but the Best

Why Swaraj Roofing Solutions (SRS) ?

Swaraj Endorses Customization to suit the various requirements set forth by the Clients Solutions offered by SRS ensure that every Whim and fancy and any imaginable engineering requirement can be custom fabricated. We ensure that projects shall incorporate the highest standards of safety and aesthetic appeal.

"Swaraj is committed to constantly innovate to add value and save cost to the client we here at SRS believe that by serving the clients through innovations in Design, sourcing, production, erection and after sales service are enabling revolutions in Building Engineering".

VISION

Want to Color whole word by steel products. We aspire to be the global steel industry benchmark for Value Creation and Corporate Citizenship We aspire to be the most trusted and preferred domestic supplier of value added steel with world class quality of products and services.

MISSION

Provide Quality Steel Products to customers by ensuring Customer Satisfaction & though Continuous Improvement in Products. Swaraj Roofing Solutions recognizes that while honesty and integrity are the essential ingredients of a strong and stable enterprise, profitability provides the main spark for economic activity. Overall the Company seeks to scale the heights of excellence in all that it does in an atmosphere free from, and thereby reaffirms its faith in democratic value.

OUR SERVICES

Self Supported Roofing Systems / Trussless Roofing Systems, Cold House, Industrial Sheds, Marriage Halls, Collage Workshop, Grain Godown, PEB (Pre-Engineering Building), Parking Shed, Supply & Fixing of Roofing Profile / Tile Sheets, Structural Consultants & Fabrications, Industrial Sky Light

OBJECTIVES

On time Delivery of quality products.

Prompt attention toward on time Services to all customers.

To Increase Customer base and Work Safety Standards.



Self Supported Roofing System (Trussless Roofing System)

It is technology initially adapted by American Army, have a widespread demand in India for warehouse, manufacturing units, automobile services station etc. The sheets are produced and install at site without any support like trusses purlin on any other structural members.

Unobstructed 36 meters of clear Spans.

Our systems is a stunning success when it comes for wider spans. A continuous roof of to 36 meters at a stretch can be easily and very effectively covered with Swaraj Roofing Solutions The technology derives this essence from it's formation that makes itself supported to sustain external load factors without any steel structure and intermediate columns.

Instant installation of 1000Sq. Mtrs. in just 12 Hrs.

Something which none other roof can yet achieve, we work with an incredible fabrication and installation speed of covering over 1000sq mts. Of are in just 12 hours. This extraordinary operational speed proves to be an excellent application, especially in time bound construction projects where timely implementation holds critical importance.

On-site Panel Fabrication

Our technology enables on-site fabrication of panels, thus ensuring utmost flexibility in work along with superior workmanship and enhanced efficiency.

Advantage :

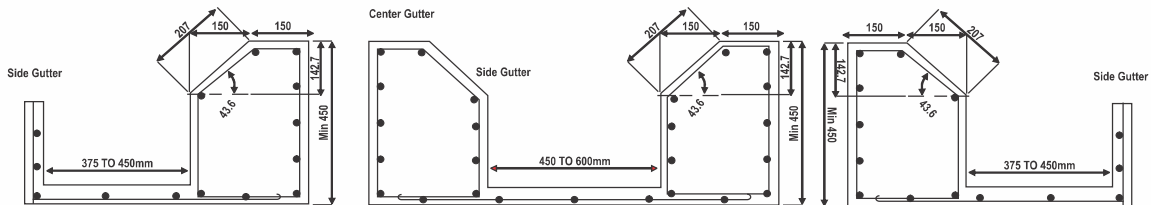
- Supported structure without trusses, purlins or ancillary support
- Aesthetically appealing
- Unobstructed 15' to 120' feet of clear spans
- 100% leak proof
- Zero maintenance
- Faster project turn around
- Value for money
- Free from holes, nuts, bolts & overlaps
- No bird nuisance
- Instant installation fo 10000 sq feet in juts 12 hours
- On site fabrication & installation
- Larger enclosed volumes
- Cooler temperature
- Dedicated after sale support
- Registrant to damage & Corrosin

Material Techninacal Specifications :

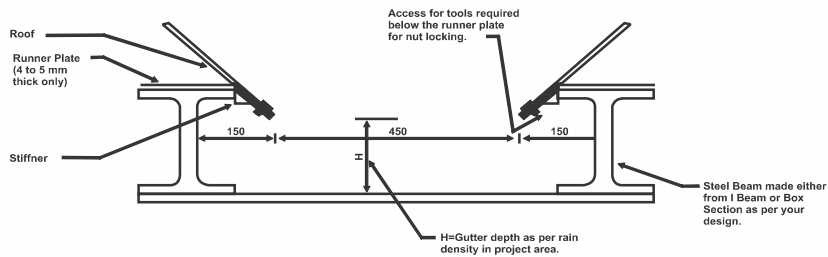
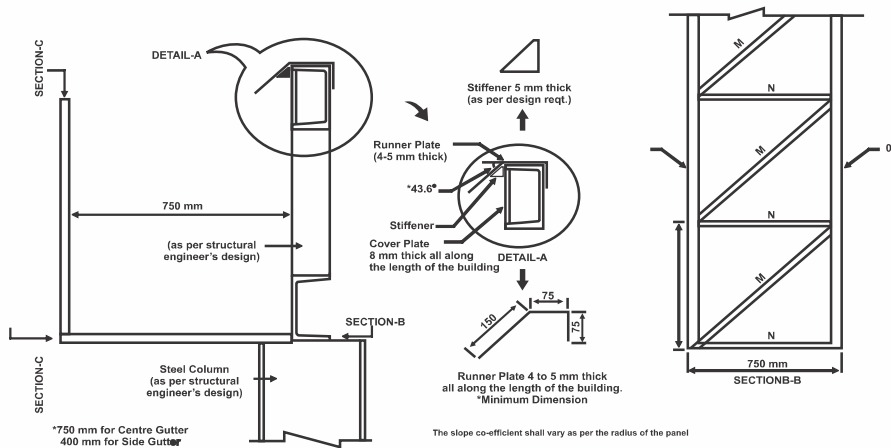
Base Metal	Product / Material	Coating Grade	Color Coating	Yield Strength	Thickness	Coil Width	Effective width	Crest Height
High Grade Steel	Pre-painted Alu-zinc Steel sheets Az-150. (Galvalume base-An alloy of 55% aluminiums and 43% zinc)	Az150	RMP, Polyester S.M.P. H.D.P. Coatings	ASTM, A792 D (Yield Strength 350 mpa)	0.7-1.5 mm BMT (Base Metal Thickness)	914 mm	610 mm	169 mm



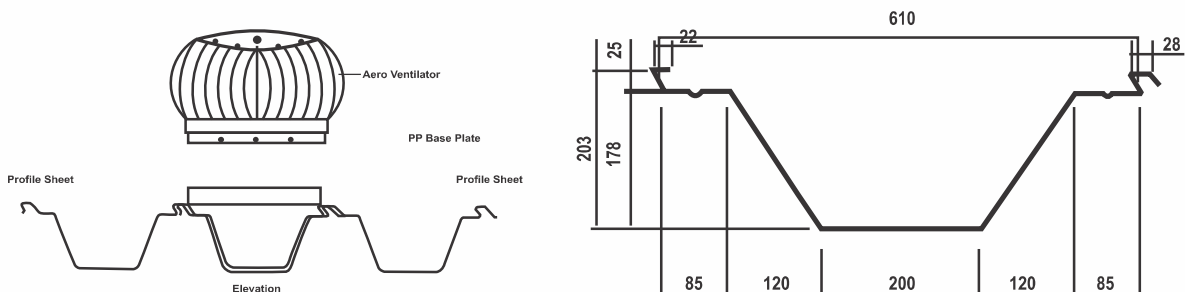
RCC BEAM & GUTTER DESIGN



MS STRUCTURE DESIGN



TURBO VENTILATORS & SKY LIGHT DESIGN





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PRODUCT INFORMATION

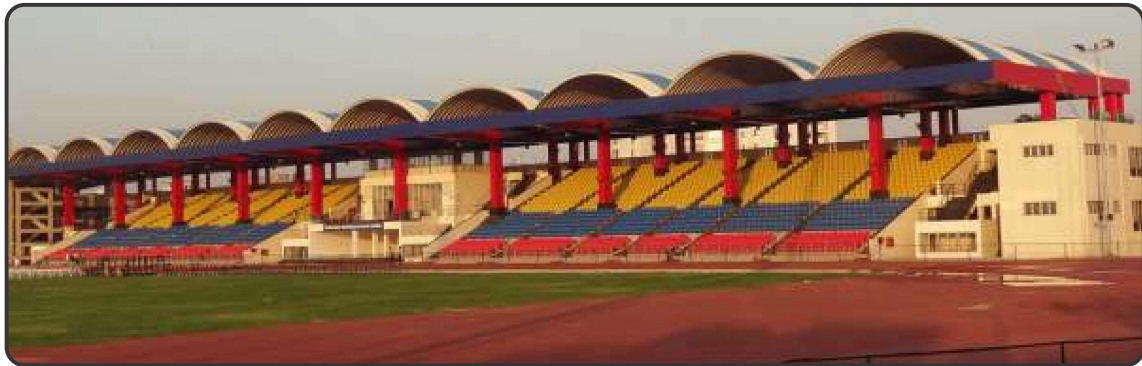
ACCESSORIES



INSTALLATION PROCESS







PRE-ENGINEERED BUILDING



BASIC BUILDING PARAMETERS



Applications

- ◆ Warehouse
- ◆ Cold Storage
- ◆ Factory
- ◆ Petrol Station
- ◆ Commercial Complex
- ◆ Collage and School

Advantages

- ◆ Single source responsibility
- ◆ Reduced construction cost
- ◆ Fast installation
- ◆ Quality control
- ◆ Maintenance free



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PRODUCT INFORMATION SWARAJ PEB

PRIMARY FRAMING SYSTEMS

Swaraj Roof India provides custom designs for your exact requirement with complete professional touch. The primary framing systems are shown below...



CLEAR SPAN
Practical Width - 80m



MULTI SPAN
Practical Width - 70m



MULTI SPAN 2 (MS-2)
Practical Width - 70m



MULTI SPAN 2 (MS-3)
Practical Width - 70m



MULTI GABLE
Practical Width - 80m



SINGLE SLOPE / MONO SLOP
Practical Width - 50m

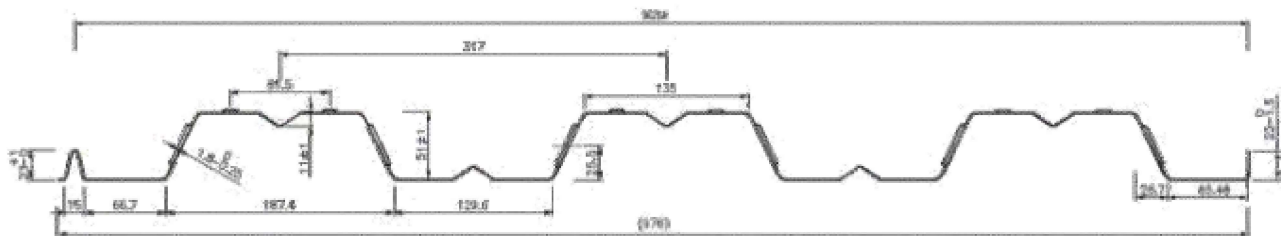


LEAN TO
Practical Width - 24m



BUTTERFLY CANOPY
Practical Width - 30m

Standard Eave Height : 3m - 8m
Standard Spacing : 6m/7.5m/9m



SWARAJ FLOOR DECK 51 :

Swaraj Floor Deck 51 is a type of steel decking profile - one of its kind in India - at par with international standards of steel design and strength. This decking can be used as a composite floor system or as a permanent formwork. It binds with concrete slab and together forms a part of the floor structure. The interlocking between the concrete and the floor deck occurs by a system of embossment and ribs that are built into the deck, creating a reinforced concrete slab. This fast and simple installation using high strength product, gives immediate access to a working platform of permanent form and positive reinforcement.

Technical Specification

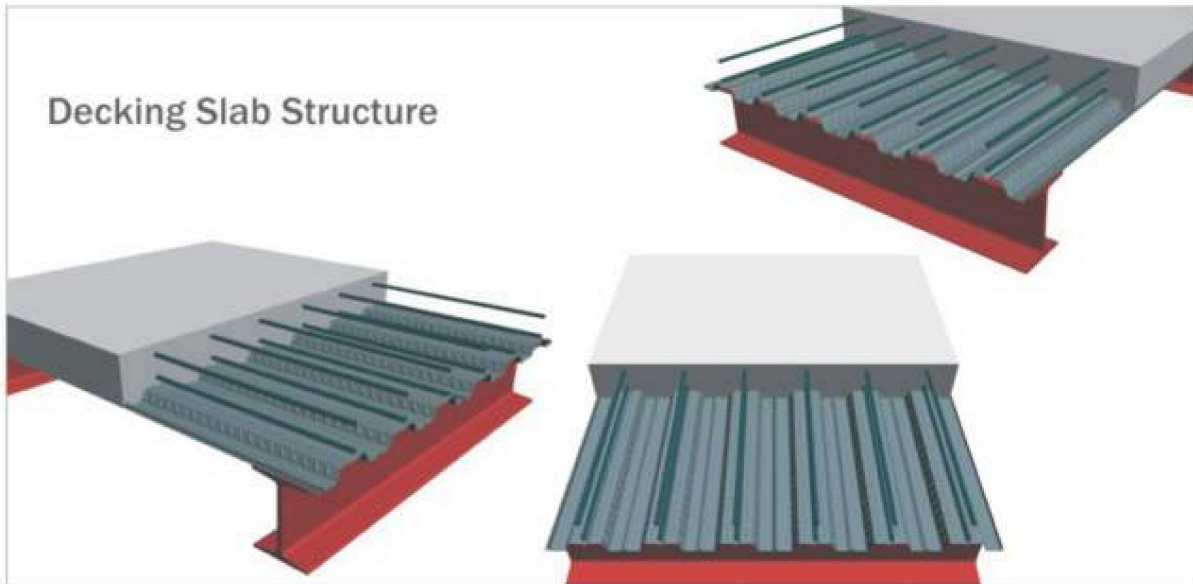
Base Metal : High Tensile Structural grade Steel

Coating Mass : Zn 120 Gsm to Zn 275 Gsm

IS standards : IS 277 (Galvanized)

Yield Strength : 240 Mpa to 345 Mpa

Thickness : 0.70 mm to 1.20 mm



No.	Thickness (mm)	Unit Wt. (Kg/m ²)	Section Modulus (cm ³)	Moment of Inertia (cm ⁴)
1	0.63	6.56	13.41	39.03
2	0.70	7.36	15.68	43.09
3	0.80	8.34	17.92	48.94
4	1.00	10.30	22.30	60.72
5	1.25	12.75	27.90	75.16

No.	Thickness (mm)	Allowable Loads in Kg/m ² For 240 Mpa Yield Strength of Material							
		Span in Meters							
		1.0	1.25	1.5	1.75	2.0	2.0	2.0	2.75
1	0.63	1970	1261	876	843	493	389	315	261
2	0.70	2304	1475	1024	752	576	455	369	305
3	0.80	2633	1685	1170	860	658	520	421	348
4	1.00	3277	2097	1456	1070	819	647	524	433
5	1.25	4100	2624	1822	1339	1025	810	656	452

No.	Thickness (mm)	Allowable Loads in Kg/m ² For 340 Mpa Yield Strength of Material							
		Span in Meters							
		1.0	1.25	1.5	1.75	2.0	2.0	2.0	2.75
1	0.63	2776	1777	1234	906	694	548	444	367
2	0.70	3246	2077	1443	1060	811	641	519	429
3	0.80	3709	2374	1649	1211	927	733	594	491
4	1.00	4616	2954	2052	1507	1154	912	739	610
5	1.25	5775	3696	2567	1886	1444	1141	924	764

Benefits :

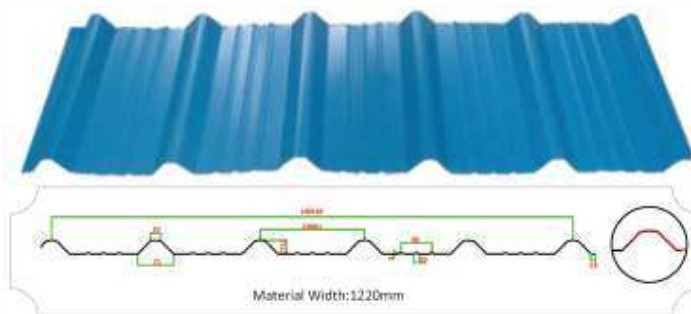
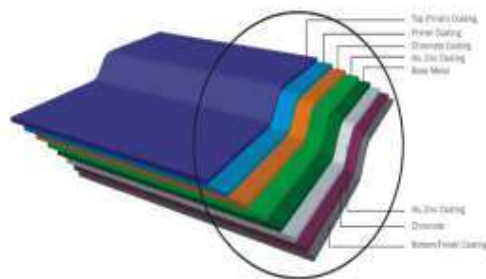
- Ensuring adequate composite action.
- Saves cost on concrete and reinforcement
- Installation combined with safety.
- Brings greater economy and design freedom.
- Endure capacities for greater strength and less deflection.
- Corrosion resistance provides long life.



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PRODUCT INFORMATION SWARAJ PROFILE SHEET



APPLICATION :

Swaraj 1005 Trapezoidal Profiles are used for widely diverse applications. Due to Large range of geometric designs, they offer variety of architectural possibility. Swaraj 1005 Trapezoidal Profiles are supplied not only in different section and thickness but also various lengths and required dimensions. These profile is suitable for Roof and Wall Panels.

Swaraj 1005 Trapezoidal Profiles is for industry ,and trade it is widely used in Ware Houses ,Industires,Airports,Railway Stations,Marriage Halls,Indore Stadium ETC.

MATERIAL SPECIFICATIONS

PRE PAINTED GALVANISED STEEL SHEETS (PPGI) :

- ◆ Material Confirm to : IS 277,IS 513 & is 14246
- ◆ Coating On : Hot Dip Galvanized Iron
- ◆ Thickness : 0.30 mm to 0.80 mm
- ◆ Zn Coating(GSM) : Zn 120
- ◆ Paint Systems : Regular Modified Polyester Paint(RMP)
Optional (SMP & PVdF)
- ◆ Tensile Strenth : 240Mpa to 340 Mpa
- ◆ Primer Service : 5μ microns Epoxy /
- ◆ Top Coat(Exposed Surface): 18 to 20 μ
- ◆ Bottom Coat : 5 to 7 μ

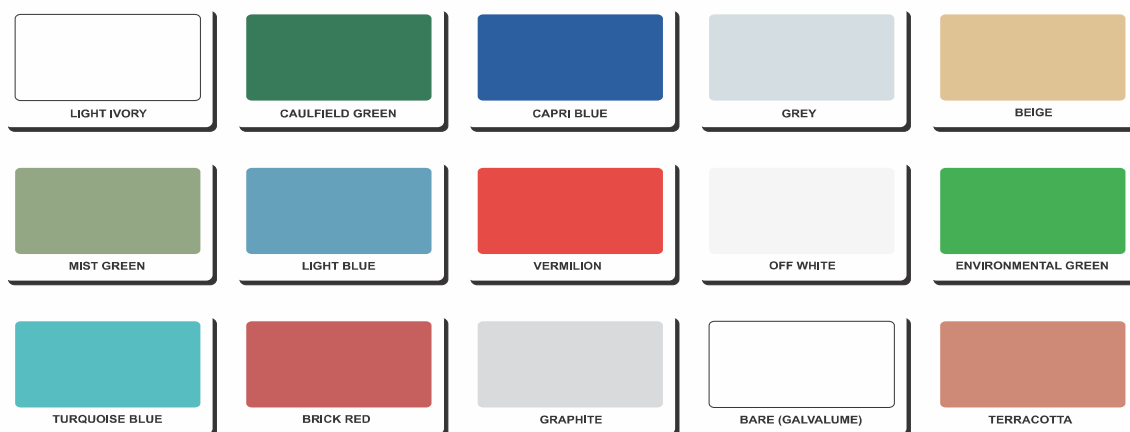
PRE PAINTED GALVALUME STEEL SHEETS (PPGL) :

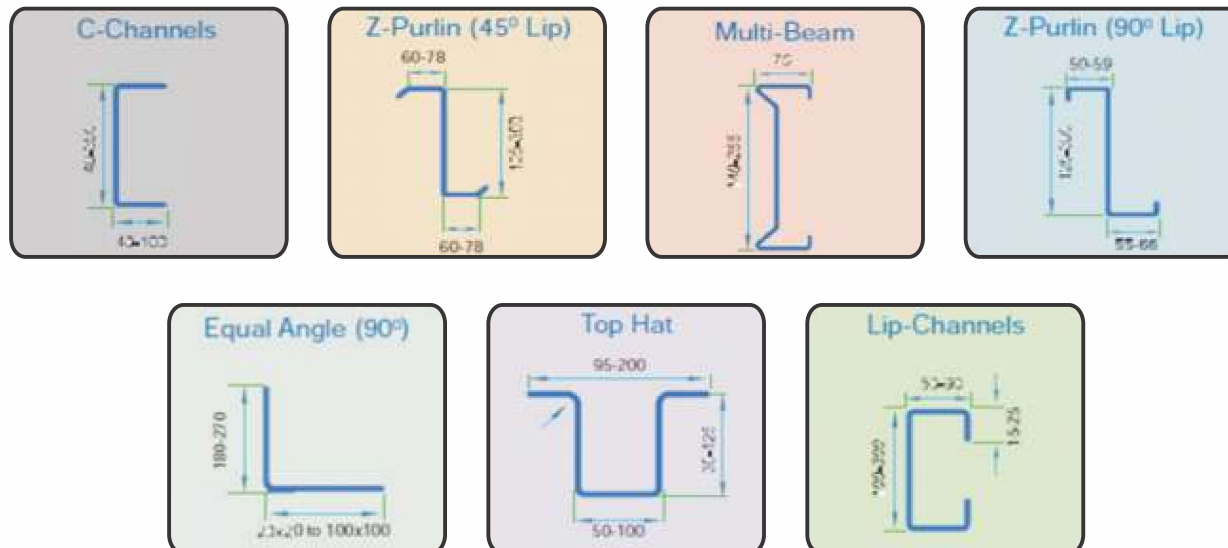
- ◆ Material Confirm to : AS 1397
- ◆ Coating On : Galvalume
- ◆ Thickness : 0.30 mm to 0.80mm
- ◆ Al-Zn Coating(GSM) : A Z 150
- ◆ Paint Systems : Regular modified Polyester Paint(RMP)
Optional (SMP & PVdF)
- ◆ Tensile Strenght : 340Mpa to 550 Mpa
- ◆ Primer service coat : 5 μ microns Epoxy
- ◆ Top Coat Exposed Surface : 18 to 20 μ
- ◆ Bottom Coat : 5 to 7 μ

GALVALUME MILL FINISH (BARE GALVALUME)

- ◆ Material Confirm to: AS 1397
- ◆ Coating On : Cold Rolled Steel
- ◆ Thickness : Standard Thickness of 0.47mm TCT
- ◆ AL-Zn Coating(GSM) : AZ 150
- ◆ Tensile Strenght : 340 Mpa to 550 Mpa

SWARAJ COLOUR SHADES





Swaraj Z & C Purlins

Swaraj Z & C – Purlins are secondary members of structures which serve as the basic material of construction for fast-track projects. These purlins are characterized by high strength, yet low cost (as a result of the high strength to weight ratio). Purlins are supplied in required sizes and lengths with pre-punched holes for quick bolting.

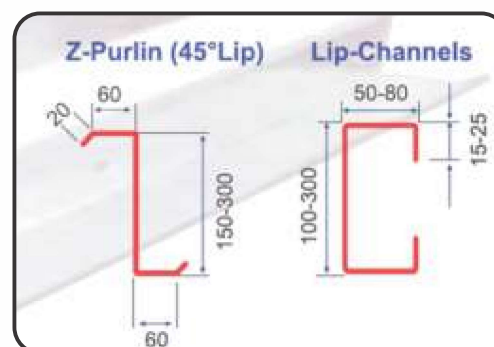
TECHNICAL & MATERIAL SPECIFICATIONS :

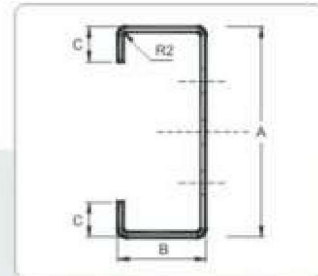
Thickness : 1.5mm to 3mm
Length : Upto 12000mm
Material : CR Steel as per IS : 513/HR Steel as per IS : 1079

Paint : According to Customer requirement
Yield Strength : 240 Mpa to 345 Mpa
Primer Redoixde : According to Customer requirement
Zinc Coating : Z 120 Gsm

BENEFITS OF Swaraj Purlins:

- ◆ High Strength to weight ratio
- ◆ Economical
- ◆ Can be used for large spans
- ◆ Better quality & finish.
- ◆ Quick Installation.

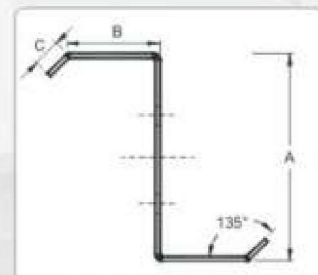




CEE PURLINS

Sectional Property of Sections

Designation	A' (mm)	B' (mm)	C' (mm)	t (mm)	R (mm)	Area (mm ²)	W _{tot} (kg/m)	I _x (cm ⁴)	r _x (mm)	Z _x (cm ³)	I _y (cm ⁴)	r _y (mm)	s	m
C 100 X 45 X 15 X 1.6	100	45	15	1.6	2	333.90	2.62	52.51	39.65	10.50	9.57	16.93	14.42	22.77
C 100 X 50 X 15 X 2	100	50	15	2	2	433.48	3.40	69.17	39.95	13.63	14.95	18.57	16.24	25.10
C 120 X 50 X 15 X 2	120	50	15	2	2	473.47	3.72	105.71	47.25	17.62	15.92	18.34	14.87	23.90
C 140 X 60 X 15 X 2	140	60	15	2	2	553.42	4.34	170.74	55.54	24.39	26.13	21.73	17.47	27.73
C 160 X 60 X 20 X 2	160	60	20	2	2	613.40	4.81	240.74	62.65	30.09	30.62	22.34	17.65	28.69
C 180 X 60 X 20 X 2	180	60	20	2	2	653.38	5.13	317.49	69.71	35.28	31.79	22.06	27.66	27.66
C 200 X 70 X 20 X 2	200	70	20	2	2	733.34	5.76	446.47	78.03	44.65	47.59	25.48	19.16	31.55
C 200 X 80 X 20 X 2.5	200	80	20	2.5	2	960.57	7.54	599.22	78.98	59.62	80.31	28.91	22.61	36.16
C 200 X 80 X 20 X 2.8	200	80	20	2.8	2	1071.76	8.41	665.91	78.82	66.59	88.70	28.77	22.46	36.01
C 200 X 80 X 20 X 3	200	80	20	3	2	1145.41	8.99	700.76	78.72	70.98	94.15	28.67	22.36	35.91
C 220 X 100 X 20 X 3	220	100	20	3	2	1265.32	9.93	826.04	80.80	75.09	163.30	35.92	30.09	45.69
C 120 X 60 X 15 X 2	120	60	15	2	2	513.44	4.03	119.62	48.27	19.94	24.81	21.98	18.83	28.89
C 160 X 70 X 20 X 2	160	70	20	2	2	653.37	5.13	265.67	63.77	33.21	44.30	26.04	21.50	33.67
C 200 X 80 X 20 X 2.5	200	80	20	2.5	2	960.57	7.54	599.22	78.98	59.62	80.31	28.91	22.61	36.16
C 250 X 80 X 20 X 2.8	250	80	20	2.8	2	1211.72	9.51	1123.12	96.27	89.65	94.94	27.99	19.87	33.60
C 300 X 80 X 20 X 2.5	300	80	20	2.5	2	1210.48	9.50	1555.96	113.38	103.73	90.44	27.33	17.94	31.67
C 300 X 70 X 20 X 3	300	70	20	3	2	1385.35	10.87	1700.51	110.79	113.37	75.99	23.42	14.64	26.87

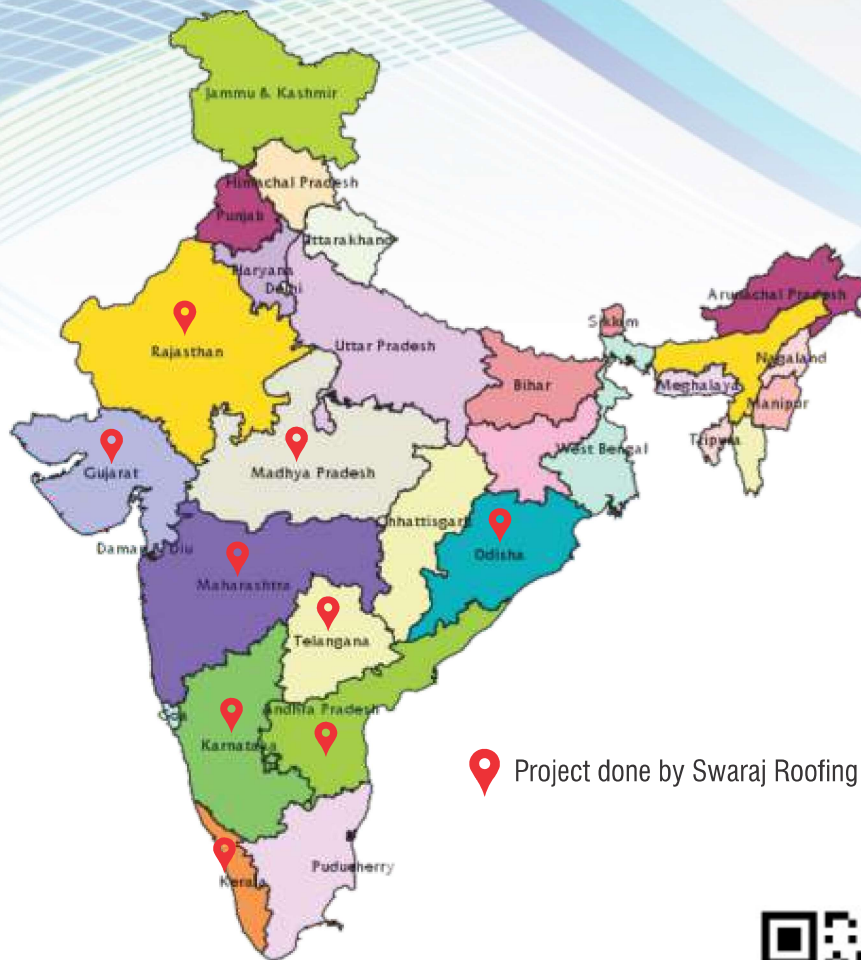


ZEE PURLINS

Sectional Property of Sections

Designation	A' (mm)	B' (mm)	C' (mm)	t (mm)	R (mm)	Area (mm ²)	W _{tot} (kg/m)	I _x (cm ⁴)	r _x (mm)	Z _x (cm ³)	I _y (cm ⁴)	r _y (mm)	s	m
Z 100 X 45 X 15 X 1.6	100	45	15	1.6	2	333.90	2.64	53.53	40.04	10.71	19.89	24.41		
Z 100 X 50 X 15 X 2	100	50	15	2	2	435.88	3.42	70.37	40.18	14.07	31.50	26.88		
Z 120 X 50 X 15 X 2	120	50	15	2	2	475.87	3.74	107.33	47.49	17.89	31.50	25.73		
Z 140 X 60 X 15 X 2	140	60	15	2	2	555.83	4.36	172.82	55.76	24.69	49.65	29.89		
Z 160 X 60 X 20 X 2	160	60	20	2	2	615.80	4.83	244.21	62.97	30.53	59.29	31.03		
Z 180 X 60 X 20 X 2	180	60	20	2	2	655.79	5.15	321.66	70.04	35.74	59.29	30.07		
Z 200 X 70 X 20 X 2	200	70	20	2	2	735.74	5.78	451.38	78.33	45.14	86.23	34.23		
Z 200 X 80 X 20 X 2.5	200	80	20	2.5	2	775.72	6.09	490.53	79.52	49.05	120.19	39.36		
Z 200 X 80 X 20 X 2.8	200	80	20	2.8	2	1074.83	8.44	672.10	79.08	67.21	164.24	39.09		
Z 200 X 80 X 20 X 3	200	80	20	3	2	1148.61	9.02	716.22	78.97	71.62	174.91	39.02		
Z 220 X 80 X 20 X 3	220	80	20	3	2	1208.59	9.49	894.25	86.02	81.30	174.91	38.04		
Z 220 X 100 X 20 X 3	220	100	20	3	2	1328.50	10.43	1035.34	88.28	94.12	310.63	48.36		
Z 250 X 100 X 20 X 3	250	100	20	3	2	1208.59	9.49	894.25	86.02	71.54	174.91	38.04		
Z 160 X 70 X 20 X 2	160	70	20	2	2	655.77	5.15	269.14	64.06	33.64	86.23	36.26		
Z 200 X 70 X 20 X 2.5	200	70	20	2.5	2	913.44	7.17	556.28	78.04	55.63	105.99	34.06		
Z 300 X 70 X 20 X 3	300	70	20	3	2	1388.55	10.90	1727.90	111.55	115.19	125.05	30.01		





 Project done by Swaraj Roofing Solutions



SWARAJ ROOFING SOLUTIONS



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