

APPLICATION

Classic 1000 Trapezoidal Profiles are used for widely diverse applications. Due to Large range of geometric designs, they offer variety of architectural possibility. Classic 1000 Trapezoidal Profiles are supplied not only in different section and thickness but also various lengths and required dimensions. This profile is suitable for Roof and Wall Panels.

Classic 1000 Trapezoidal Profiles is for industry or trade, Stadia , Cold Storage, Ware House, Airport Hanger, Railway station, Bus Stop, Under construction Building Boundaries & Architectural installation etc.



MATERIAL SPECIFICATIONS

PRE PAINTED GALVANISED IRON (PPGI)

- Material Confirm to : IS 277, IS 513 & IS 14246
- Coating On : Hot Dip Galvanised Iron
- Thickness : Standard Thickness of 0.50mm TCT
- Zn Coating (GSM) : Zn 120
- Paint Systems : Regular Modified Polyester Paint (RMP) Optional (SMP & PVdF)
- Mpa : 245 Mpa
- Primer Service Coat : 5µ microns Epoxy /
- Top Coat (Exposed Surface) : 18µ to 20µ
- Bottom Coat : 5µ to 7µ

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
- MPa : 245 / 350 / 550 Mpa

CURVED SHEET

Curved sheets are available from Classic 1000 profile, Curving through computerised, PLC controlled crimping machine. The minimum radius of curve is 500 mm, start lead is 50mm & end lead is 350mm. The minimum length of curved is 790mm, thereby making length of curved sheet possible as 1190mm, Length restrictions apply to curved sheets. Curved sheet in high tensile metal is supplied at customers risk.

PRE-PAINTED GALVALUME STEEL SHEETS (PPGL)

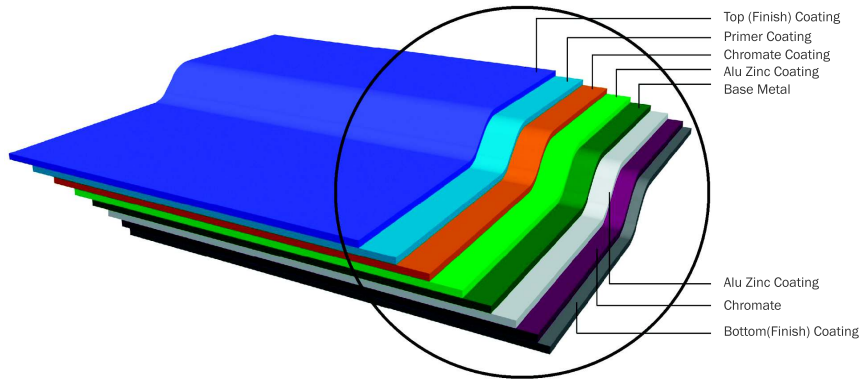
- Material Confirm to : AS 1397
- Coating On : Galvalume
- Thickness : Standard Thickness of 0.50mm TCT
- AL-Zn Coating (GSM) : AZ 150
- Paint Systems : Regular Modified Polyester Paint (RMP) Optional (SMP & PVdF)
- Mpa : 245 / 350 / 550 Mpa
- Primer Service Coat : 5µ microns Epoxy /
- Top Coat (Exposed Surface) : 18µ to 20µ
- Bottom Coat : 5µ to 7µ

AVAILABLE LENGTH

- Supplied in maximum length up to 12 mtrs.

CLASSIC 1000 : Is also available in Aluminium Mill Finish / Colour Coated. Thickness Range : 0.71mm to 1.20mm

CLASSIC 1000



Maximum Supports Spacing (mm)			
Total Coated Thickness (mm)			
Type of span	0.45	0.50	
Roof			
Single Span	950	1300	
End Span	1200	1400	
Internal Span	1750	2050	
Unstiffened eaves overhang	150	200	
Stiffened eaves overhang	300	350	
wall			
Single Span	1700	1900	
End Span	2450	2600	
Internal Span	2850	3000	
Overhang	150	200	

Cross Sectional Properties Table : CLASSIC 1000

Thickness	Ixx	Zxx	Zxx	Span for Deflection		U.D.L.Kg/m2 for span				
				w/m ² = 70kg		1 meter	1.4 meter	1.6 meter	1.8 meter	2.0 meter
mm	cm ⁴	cm ⁴	cm ⁴	L/100	L/200					
0.5	8.350	3.33	10.24	2.63m	2.09m	642	233.00	156.00	110	80
0.55	9.160	3.65	11.24	2.72m	2.15m	703	256.00	172.00	120	97
0.6	9.960	3.98	12.24	2.79m	2.21m	764	278.00	196.00	131	96
0.7	11.540	4.62	14.22	2.93m	2.33m	886	322.00	216.00	151	110
0.8	13.09	5.25	16.19	3.06m	2.43m	1005	366.00	245.00	172	125



**CLASSIC ROOF
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CORPORATE OFFICE & FACTORY:

Gat No.261/7, Kharabwadi, Chakan-Talegaon Road,
Near Arklite Speciality Lamps Ltd., Chakan, Tal.- Khed, Dist.- Pune 410501. Maharashtra (INDIA)
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CLASSIC 1015

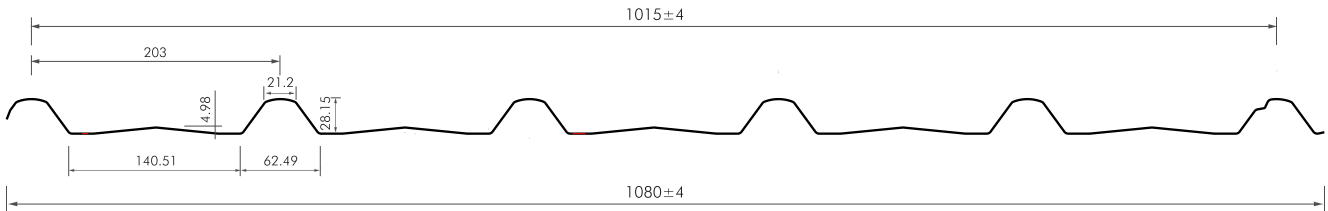
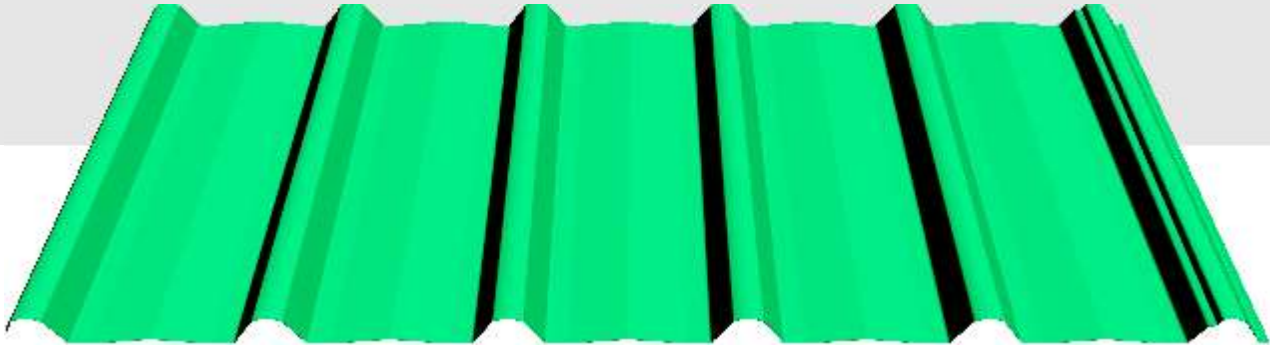


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PRODUCT INFORMATION



APPLICATION

Classic 1015 Trapezoidal Profiles are used for widely diverse applications. Due to Large range of geometric designs, they offer variety of architectural possibility. Classic 1015 Trapezoidal Profiles are supplied not only in different section and thickness but also various lengths and required dimensions. This profile is suitable for Roof and Wall Panels.

Classic 1015 Trapezoidal Profiles is for industry or trade, Stadia , Cold Storage, Ware House, Airport Hanger, Railway station, Bus Stop, Under construction Building Boundaries & Architectural installation etc.



MATERIAL SPECIFICATIONS

PRE PAINTED GALVANISED IRON (PPGI)

- Material Confirm to : IS 277, IS 513 & Is 14246
- Coating On : Hot Dip Galvanised Iron
- Thickness : Standard Thickness of 0.50mm TCT
- Zn Coating (GSM) : Zn 120
- Paint Systems : Regular Modified Polyester Paint (RMP) Optional (SMP & PVdF)
- Mpa : 245 Mpa
- Primer Service Coat : 5µ microns Epoxy /
- Top Coat (Exposed Surface) : 18µ to 20µ
- Bottom Coat : 5µ to 7µ

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
- MPa : 245 / 350 / 550 Mpa

PRE-PAINTED GALVALUME STEEL SHEETS (PPGL)

- Material Confirm to : AS 1397
- Coating On : Galvalume
- Thickness : Standard Thickness of 0.50mm TCT
- AL-Zn Coating (GSM) : AZ 150
- Paint Systems : Regular Modified Polyester Paint (RMP) Optional (SMP & PVdF)
- Mpa : 245 / 350 / 550 Mpa
- Primer Service Coat : 5µ microns Epoxy /
- Top Coat (Exposed Surface) : 18µ to 20µ
- Bottom Coat : 5µ to 7µ

AVAILABLE LENGTH

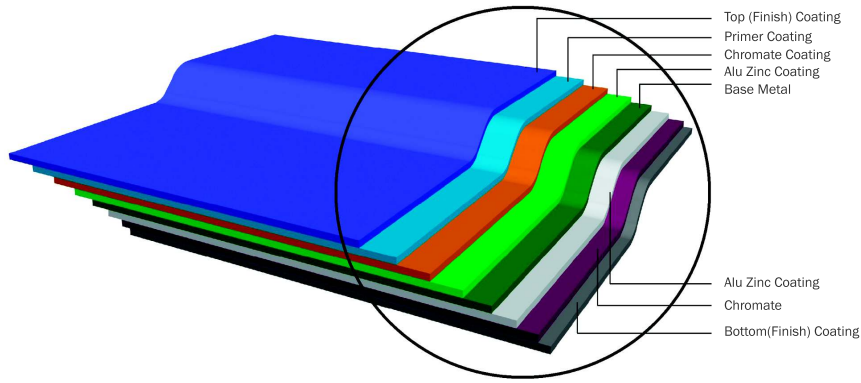
- Supplied in maximum length up to 12 mtrs.

CLASSIC 1015 : Is also available in Aluminium Mill Finish / Colour Coated. Thickness Range : 0.71mm to 1.20mm

CURVED SHEET

Curved sheets are available from Classic 1015 profile, Curving through computerised, PLC controlled crimping machine. The minimum radius of curve is 500 mm, start lead is 50mm & end lead is 350mm. The minimum length of curved is 790mm, thereby making length of curved sheet possible as 1190mm, Length restrictions apply to curved sheets. Curved sheet in high tensile metal is supplied at customers risk.

CLASSIC 1015



Maximum Supports Spacing (mm)

Total Coated Thickness (mm)			
Type of span	0.45	0.50	
Roof			
Single Span	950	1300	
End Span	1200	1400	
Internal Span	1750	2050	
Unstiffened eaves overhang	150	200	
Stiffened eaves overhang	300	350	
wall			
Single Span	1700	1900	
End Span	2450	2600	
Internal Span	2850	3000	
Overhang	150	200	

Cross Sectional Properties Table : CLASSIC 1015

Thickness	Ixx	Zxx	Zxx	Span for Deflection		U.D.L.Kg/m ² for span				
				w/m ² = 70kg		1 meter	1.4 meter	1.6 meter	1.8 meter	2.0 meter
mm	cm ⁴	cm ⁴	cm ⁴	L/100	L/200					
0.5	10.920	4.40	15.17	2.88m	2.28m	839	305.00	204.00	143	104
0.55	11.980	4.84	16.65	2.97m	2.36m	920	335.00	224.00	157	115
0.6	13.020	5.25	18.12	3.05m	2.42m	1000	558.00	243.00	171	125
0.7	15.090	6.10	21.05	3.21m	2.45m	1159	422.00	283.00	198	144
0.8	17.13	6.30	23.96	3.35m	2.65m	1315	479.00	321.00	225	164



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CLASSIC DECK

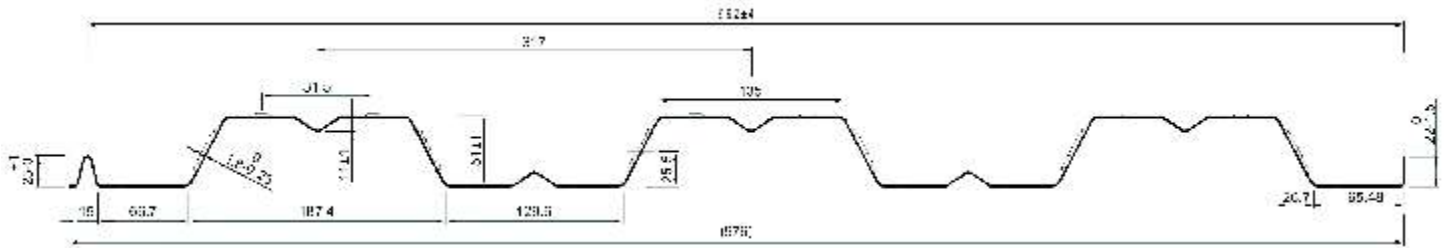
PRODUCT INFORMATION



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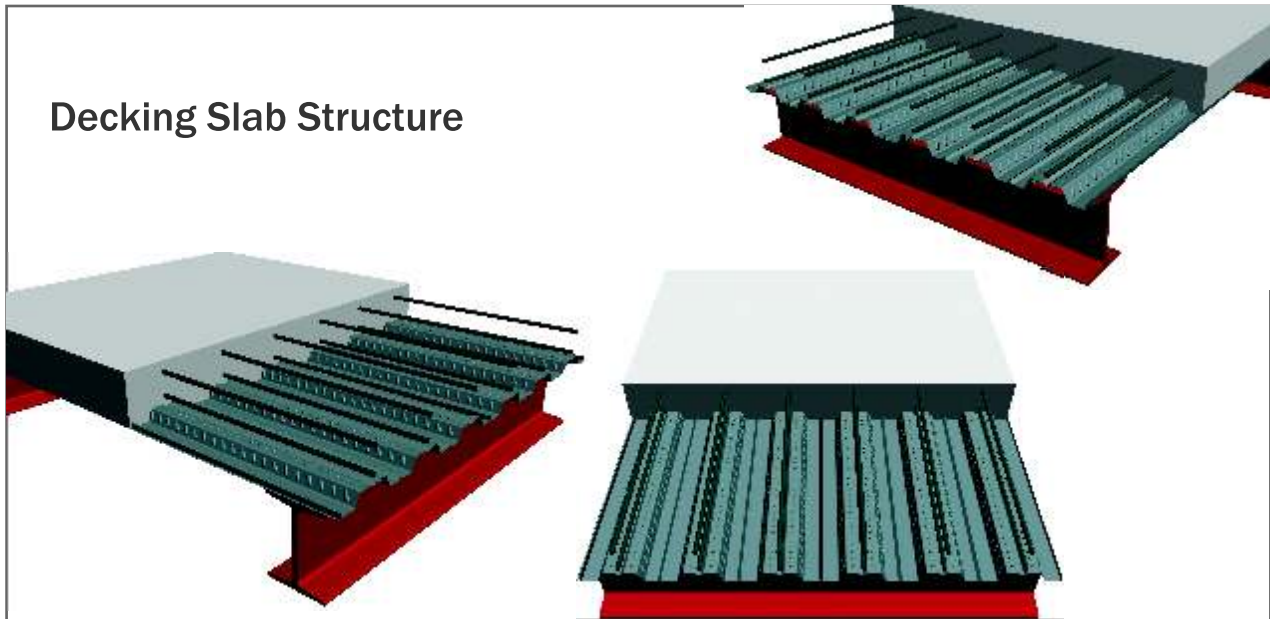


CLASSIC DECK

Classic Deck 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 work form. 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 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.

ADVANTAGES OF CLASSIC DECK

- **Light Weight** - Reduces weight of concrete floor by almost 50%.
- **Economical** - Does not require additional support, reduces use of concrete, reduces slab thickness, savings in reinforcement steel.
- **Time Saving** - Easy and rapid installation; no major reinforcement required.
- **Multi-Faceted** - Flooring, roofing or cladding temporary or permanent shuttering, working platform during construction.
- **Multi-Use** - Widely used in multiple-storey buildings, malls, markets, storage facilities mezzanines, bridges, walkways, platforms, warehouse, industrial sheds, control rooms.
- **Aesthetic Appeal** - Offers internal polished look, available in variety of colors, no need for internal plastering of roofs.



Decking Slab Structure

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	2.25	2.5	2.75	3.0
1	0.63	1970	1261	876	643	493	389	315	261	219
2	0.70	2304	1475	1024	752	576	455	369	305	256
3	0.80	2633	1685	1170	860	658	520	421	348	293
4	1.00	3277	2097	1456	1070	819	647	524	433	364
5	1.25	4100	2624	1822	1339	1025	810	656	452	456

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	2.25	2.5	2.75	3.0
1	0.63	2776	1777	1234	906	694	548	444	367	308
2	0.70	3246	2077	1443	1060	811	641	519	429	361
3	0.80	3709	2374	1649	1211	927	733	594	491	412
4	1.00	4616	2954	2052	1507	1154	912	739	610	513
5	1.25	5775	3696	2567	1886	1444	1141	924	764	642

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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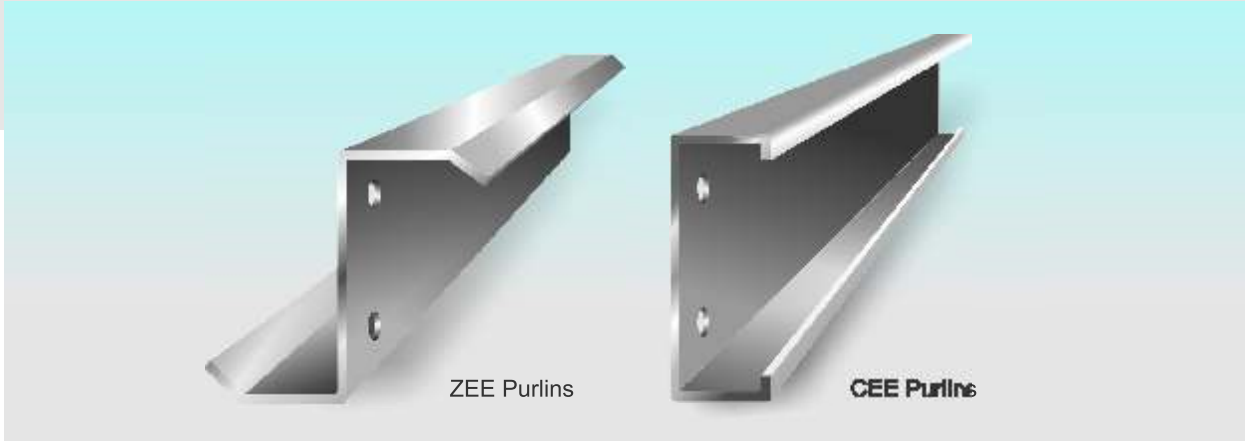
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CLASSIC - CEE & CLASSIC - ZEE

CLASSIC CEE and CLASSIC ZEE 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). Classic Purlins are supplied in required sizes and lengths with pre-punched holes for quick bolting.

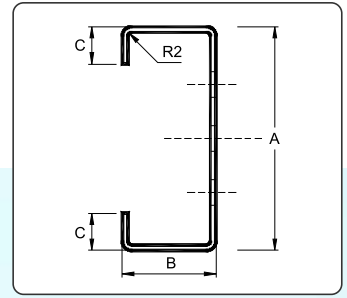
TECHNICAL & MATERIAL SPECIFICATIONS

Thickness : 1.5mm to 3mm
Length : Upto 12000mm
Material : CR Steel as per IS : 513/HR Steel as per IS : 1079, Galvanized as per IS : 277

Yield Strength : 245 Mpa to 345 Mpa Type: Bare, Primer coated , Galvanized, Painted CLASSIC CEE and CLASSIC ZEE purlins made of hot rolled coils are degreased, phosphate and then primer finished with Zinc Chromate Red-Oxide Paint-Matching Test as requirement of IS : 4777 and IS : 2074. Special treatment to combat Severe atmospheric corrosion can be offered. We also offer purlins in galvanized coated steel in 120GSM/175 GSM/275 GSM coating as per customer requirement.

BENEFITS OF CLASSIC PURLINS/CHANNELS

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



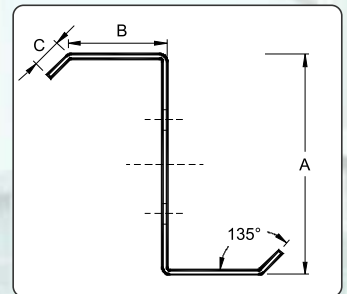
CEE PURLINS

Sectional Property of Sections

Designation	A' (mm)	B' (mm)	C' (mm)	t (mm)	R (mm)	Area (mm ²)	Wt/m (kg/m)	Ix (cm ⁴)	rx (mm)	Zx (cm ³)	Iy (cm ⁴)	ry (mm)	x	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	13.83	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	2	960.57	7.54	599.22	78.98	59.92	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	709.76	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	59.92	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	89.85	94.94	27.99	19.87	33.60
C 300 X 80 X 20 X 2.5	300	80	20	2.5	2	1210.49	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)	Wt/m (kg/m)	Ix (cm ⁴)	rx (mm)	Zx (cm ³)	Iy (cm ⁴)	ry (mm)
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



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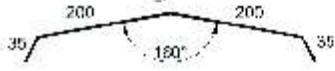
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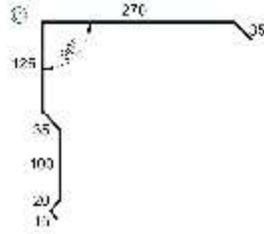
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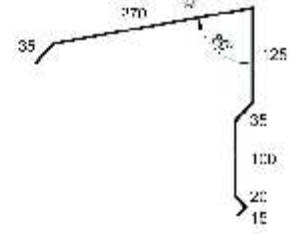
PLAIN ACCESSORIES



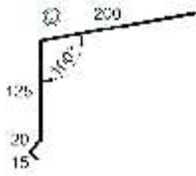
Ridge Flashing



Barge Flashing



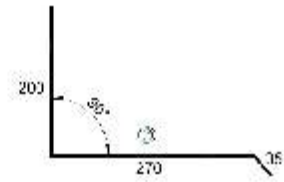
Single Ridge Flashing



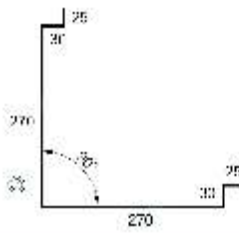
Gutter Flashing



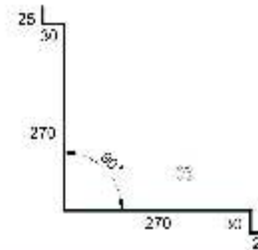
Drip Flashing



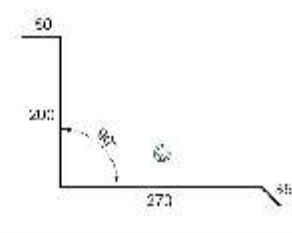
Apron Flashing



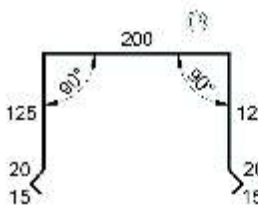
Corner Flashing (External)



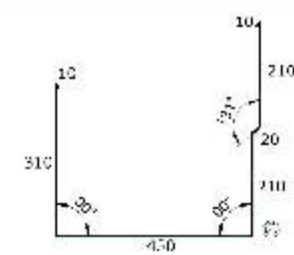
Corner Flashing (Internal)



Wall Flashing



Cap Flashing

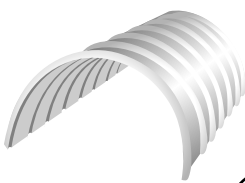


Gutter

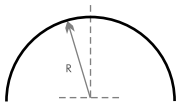


Louvers

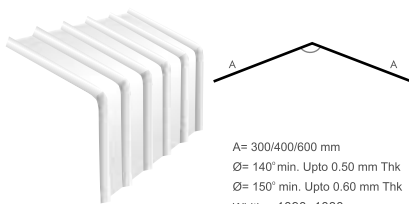
TRAPEZOIDAL ACCESSORIES



R = min 1000 mm
Sheet Length=6000 mm max
Width = 1090, 1080

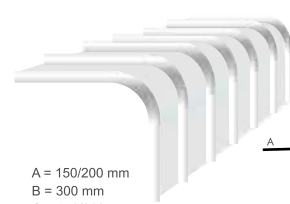


Profile Curvature

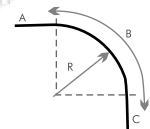


A = 300/400/600 mm
Ø = 140° min. Upto 0.50 mm Thk
Ø = 150° min. Upto 0.60 mm Thk
Width = 1090, 1080

Profile Ridge



A = 150/200 mm
B = 300 mm
C = 150/200 mm
R = min 500 mm
Width = 1090, 1080

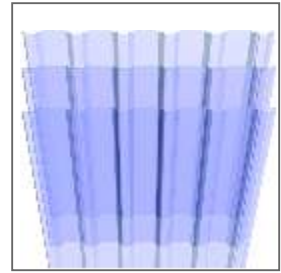
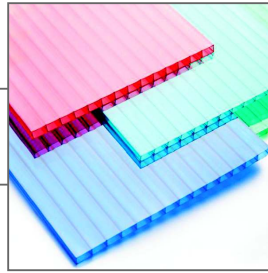


Profile Northlight Curvature

CLASSIC ADDITIONAL ACCESSORIES

MATERIAL SPECIFICATIONS

■ Polycarbonate Sheets



■ Turbo Ventilators

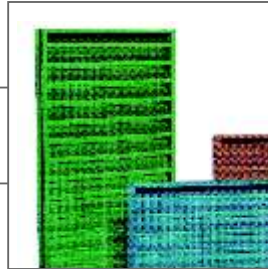


■ Insulations

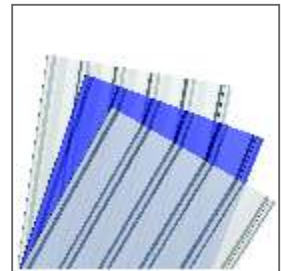
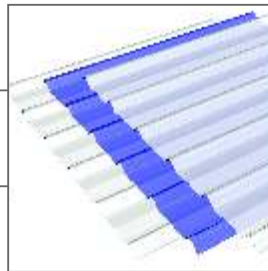
- Rock Wool
- Glass Wool
- Reflective Bubble Insulation



■ Louvers



■ FRP Sheets



■ Perforated Sheets PPGI / PPGL



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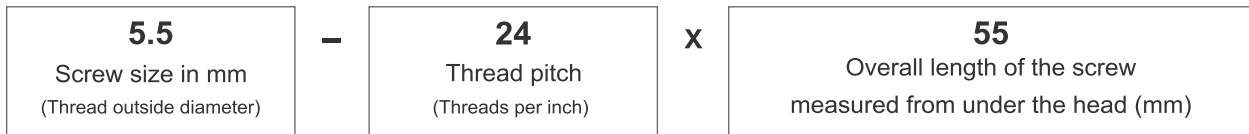


GENERAL GUIDELINES

1 Recommendations for fasteners to be used with CRIPL Sheets

CLASSIC PROFILE	CREST FIXED				VALLEY FIXED				
	Purlin Thickness	Screw Description	Length of J/L Hook	Nos. per m of purlin	Purlin Thickness	Screw Description	Length of J/L Hook	Nos. per m of purlin	
CLASSIC PROFILE	1 - 4 mm	5.5 - 14 X 55	Purlin depth + 65 mm	3 (alt) 5 (all)	1 - 4 mm	5.5 - 14 X 55	Purlin depth + 25 mm	2 (ends)	4 (all)
	> 4 mm	5.5 - 24 X 55	Purlin depth + 65 mm	3 6	> 4 mm	5.5 - 24 X 55	Purlin depth + 25 mm	2	4
	1 - 4 mm	5.5 - 14 X 55	Purlin depth + 65 mm	4 (alt) 4 (all)	1 - 4 mm	5.5 - 14 X 55	Purlin depth + 25 mm	3 (alt)	5 (all)
	> 4 mm	5.5 - 24 X 55	Purlin depth + 65 mm	4 6	> 4 mm	5.5 - 24 X 55	Purlin depth + 25 mm	3	5

2. Identification of screws : The format of the number code is -



3. Setting of screws

Fasteners with sealing washers should be tightened only until the washer is gripped firmly enough to provide a weather tight seal. The fasteners should not be over-tightened because this may split the sealing washer or deform the sheet, either of which could lead to water penetration. Special care is required in valley fixing because there is no flexibility with the sheet hard against the runners.

4. Rain Noise reduction

To reduce rain noise on metal roofing, an insulation blanket with aluminium foil laminate may be laid, before laying the roofing. It is important that the laminate is pulled tight enough to hold the blanket hard against the underside of the roofing so as to dampen the rain-induced vibration at the point of impact. If the blanket is not hard against the roofing the noise reduction will not be as good. First lay wire mesh over the purlins, tighten and fix it, before laying the membrane.

5. Cutting

For cutting CRIPL sheets on site, we recommend that you use a power saw with a metal cutting blade because it produces fewer damaging hot metal particles and leaves less resultant burr than a carborundum disc. Cut materials over the ground and not over other materials where hot particles can fall and cause damage to finishes especially prepainted finishes. It is best to have the exterior colour finish of a prepainted sheet facing down; however you must then protect the paint finish from scratching by placing work supports. If you have to cut materials near sheets already installed, mask them or direct the stream of hot particles away.

6. Pre-installation checks

a) check flatness, slope and overhang Before starting work ensure that :-

- the members of the building, on which the sheeting will rest, are truly in the same plane;
- the overhangs of sheets from the top and bottom supports don't exceed 150mm, whilst also overhanging at least 100 mm into gutters.

Make any necessary adjustments before you start laying sheets, because they will be difficult or impossible to rectify later.

b) Orient sheets before lifting

To ensure that side laps are protected, we recommend that you start laying sheets from the end of the building that will be in the lee of the worst anticipated or prevailing weather. It is much easier and safer to turn sheets on the ground than on the roof.

ROOF - Screw fix through rib



WALL - Screw fix through pan



CLASSIC INSTALLATION GUIDE

Fasteners without insulation				
Support Details	Numbers of Fasteners Requirements Screws		Crest Fixing Roof & Wall Application	Valley Fixing Wall application only
	Per Sheet/support	Pe sq. mt.		
Steel up to 0.75 mm BMT	5	5	13 - 13 x 55, Batten Tekes HG, Hex Head	10-16 x 16 Metal Tekes, Hex Head
Steel > 0.75 mm BMT up to 3 MM BMT			12 - 14 x 45, Metal Tekes HG, Hex Head	10-16 x 16 Metal Tekes, Hex Head
Timber - Softwood			12 - 11 x 65, Type 17 HG, Hex Head	10-12 x 30 Type 17 HG, Hex Head
Timber - Hardwood			12 - 11 x 50, Type 17 HG, Hex Head	10-12 x 20 Type 17 HG, Hex Head

RECOMMENDATIONS ON FIXING OF CRIPL SHEETS

Storage & Handling at site :

Store sheets duly protected from damage at site, carefully stacked on firm level ground, resting on the wooden blocks as supplied. It is advisable to stack sheet of different size separately. Storing sheets as near as possible or within the building where they are to be fixed is recommended. Rain or condensation is easily drawn between the surface of stacked sheets by capillary action, or they can be driven in by wind. This trapped moisture cannot evaporate easily, so it can cause deterioration of the coating which may lead to reduced life - expectancy or poor appearance. If materials are not required for immediate use, stack them neatly and clear of the ground. If left in the open, protect them with waterproof covers. If stacked or bundled product becomes wet, separate it without delay, wipe it with a clean cloth and stack it to dry thoroughly. Generally, keep your weight evenly distributed over the soles of both feet to avoid concentrating your weight on either heels or toes. Always wear smooth soft-soled shoes; avoid ribbed soles that pick up and hold small stones and other objects. When you walk across the ribs, walk over or close to the roofing supports. Always take particular care when walking on wet or newly laid sheets particularly on steeply pitched roofs. If there will be heavy foot traffic on a roof, provide a temporary walkway or working platform to minimize damage.

Handling sheeting on site :

On large building projects, lifting bundles with a crane direct from the delivery truck onto the roof frame may reduce handling time. A spreader bar is recommended for long sheets, For small to medium size Project, without mechanical handling facilities, unload sheets by hand and pass them up to the roof one at a time. For personal safety, and to project the surface finish, use clean dry gloves. don't slide sheets over rough surfaces or over each other. Always carry tools, don't drag them.

Strength of material :

Determining the mechanical properties of metal to be used for sheeting is a matter inextricably related to the Stress - Strain curve of the metal. With greater degree and extent of cold rolling required to produce metal with higher yield strength (Y. S), the Y. S. perilously approaches the ultimate strength (U.T.S), signifying hardening brittleness and sudden, un-warned failure or cracking of sheets under load. In the calculation of deflection properties of cold formed sections, higher Y.S is detrimental and sheets with higher Y.S shall deflect more. thereby nullifying any advantage sought to be derived from greater Y.S. Worldwide, metal of properties corresponding to Y.S in the range of 300-350 Mp is the most preferred choice for sheeting. In India, Yst 240 grade of sheet is commonly available. Some manufactures have also standardised Yst 310 grade of steel. Gradually, 5000 series of alloy for Aluminium is also becoming available.

Thermal movement :

All metals expand and contract with changes in temperature, Although steel is by far the least affected of all the metals commonly used for roof and wall sheeting, the changes in length experienced in very long runs of roofing are significant. On a clear hot summer day, with no wind, the steel temperature in roof sheeting can reach approximately 50 C in Al-Zn substrate Off-White, 60 C in Al-Zn finish without colour and more the 80 C in darker colours.

Purlin spacing :

The spacing of purlins in roof shall generally be restricted to 1400 mm c/ c, but may be extended based on design criteria. However, ergonomics related to workmen safety, deflection of sheets etc. need careful attention while increasing purlin spacing. For side cladding, the recommended purlin spacing is 1700 mm. Ridge purlins shall be fixed at a maximum distance of 150 mm from the apex of the roof.

Pitch of roof :

The pitch of roofs shall, wherever possible, be preferably between 15 - 18 ,as recommended in I.S. Should it however be inevitable to adopt roofs with lower pitch, extreme care in maintaining purlin design (deflection) and level becomes mandatory to avoid "ponding" and subsequent leaks.

Fasteners :

The purlin section used and the type of coating guide the choice of fasteners on the sheets. Self tapping, self drilling screws are not recommended for use with hollow sections as these invite the ingress of moisture into the closed internal surface of the section For Al-Zn alloy coated sheets fasteners should conform to Class 3 of AS 3566 (ITW Buildex or Corroshield make) while for galvanised colour coated sheets any standard make of fastener (HP, Hilti ets) may be used.

Free Overhang :

The free overhang at eaves, measured as the length of sheet from its lower edge to the centre of boltholes, shall not exceed 150 mm.

Adoption of these recommendation ensures optimal performance in the use of metal sheets in general and of course CRIPL sheets. These recommendations are made with objective to secure a sound and permanent roof with maximum economy and are based on current Indian and other Standard.



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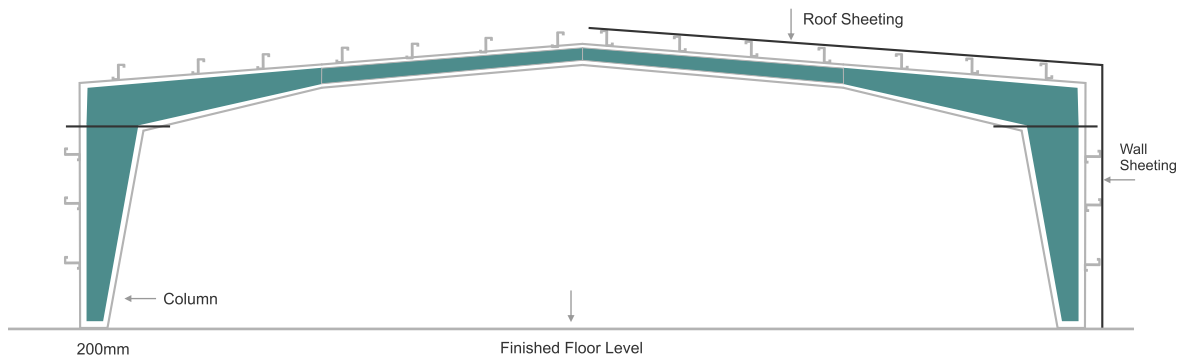
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PRE-ENGINEERED BUILDING



BASIC BUILDING PARAMETERS



Applications

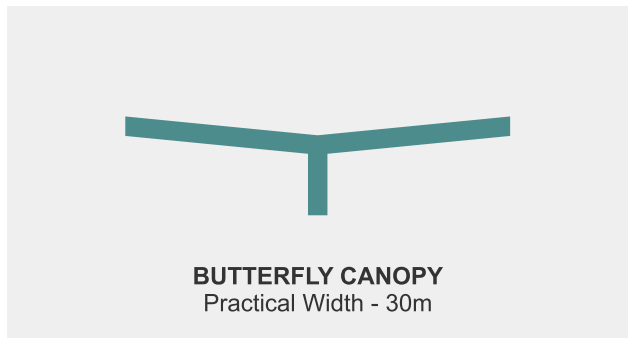
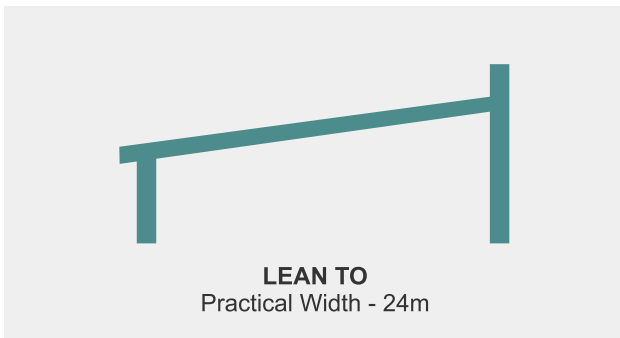
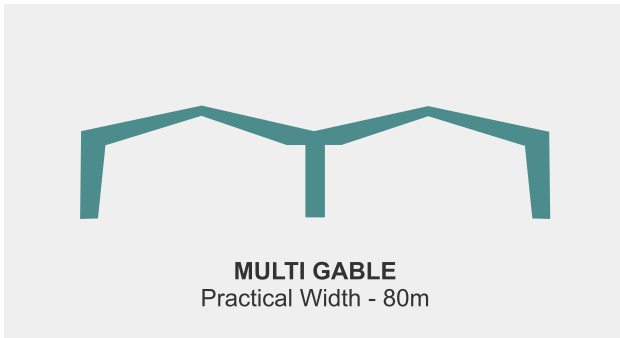
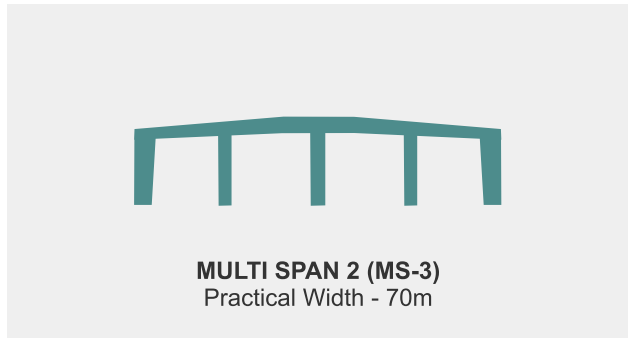
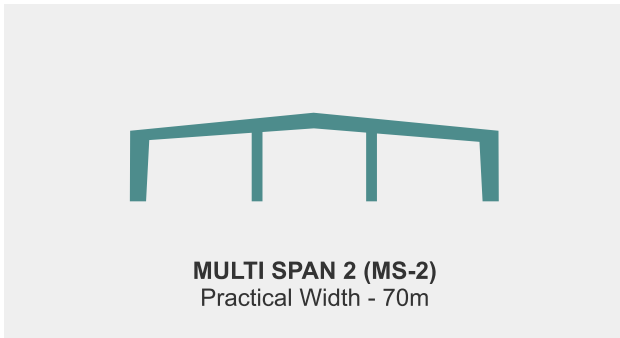
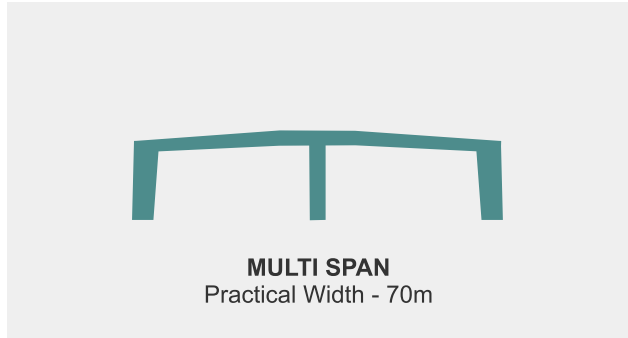
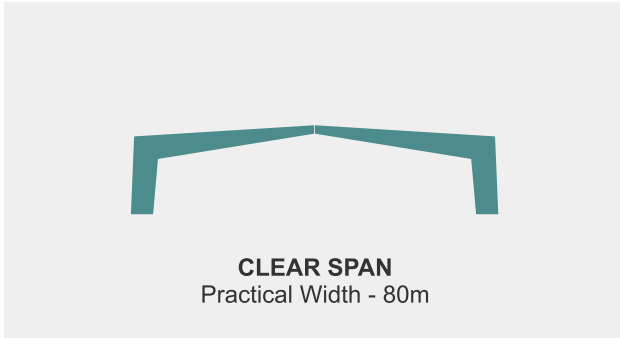
- Warehouse
- Cold Storage
- Factory
- Petrol Station
- Commercial Complex
- College and School

Advantages

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

PRIMARY FRAMING SYSTEMS

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



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



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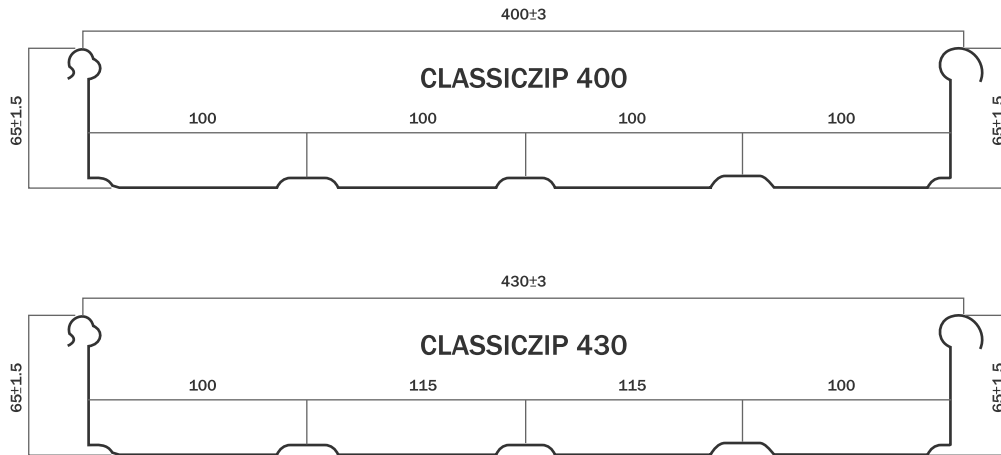
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Everything under one roof
On Demand Quality Roofing Services



Local Wisdom... Beautiful Results...



INTRODUCTION

CLASSICZIP is a Zip-up seam roofing system, which is manufactured on one of three state-of-art roll form either in our plant or at site, roll forming also possible at eaves height.

The CLASSICZIP system is available in Thickness range from 0.50MM to 0.70MM in Bare Galvalume and Colour Coated Galvalume Steel, Thickness of 0.90MM / 1.20MM in Aluminum. Besides supplying in plain Mill finish and Colour Coated are add to the overall aesthetics appeal of the roof application as well as life of the sheets. You may contact our Technical team for further det ails.

BENEFITS

CLASSICZIP system has been designed to be use over a wide range of construction types. This system has been developed to give cost effective solutions to the requirement. Our Technical team assesses such diverse requirement.

The CLASSICZIP system is available in 65MM depth.

CLASSICZIP 400 and CLASSIC 430 is most popular and cost effective system, due to the wide span full support is required by incorporating a more dense slab type of mineral wool insulation to prevent bowing of this span.

Substrate

The substrate used is Bare Galvalume and Colour Coated Galvalume in steel with Al-Zn Coating of 150gsm minimum and yield strength of 345 MPa to AS 1397.

We also manufacture sheets from Aluminum Alloy of the 3000 series containing magnesium and manganese for increased strength and durability, the sheets are available in Natural Mill finish and Colour Coated.

	Density	Modulus of	Thermal	Thermal Expansion	Melting Point
Material	(kg/m ³)	Elasticity (kN/cm ²)	Conductivity (W/m°C)	in mm per°C	(°C)
Aluminium	2705	6900	214	24 x 10 ⁻⁶	650
Steel	7850	21000	55	12 x 10 ⁻⁶	1900

Load Span Tables : Classiczip 400 System - Aluminum

Classiczip 400	0.9mm		(self weight 3.53 kg/m ²)					
Span (m)	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00
Download	1.87	1.87	1.87	1.75	1.37	1.00	0.75	0.55
Wind Uplift	3.00	3.00	2.58	2.20	1.91	1.56	1.25	0.95

Load Span Tables : Classiczip 400 System - Steel

Classiczip 400	0.7mm		(self weight 7.98 kg/m ²)					
Span (m)	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00
Download	3.40	3.07	2.75	2.50	2.15	1.65	1.20	0.80
Wind Uplift	4.00	3.90	3.25	2.75	2.40	2.10	1.75	1.45



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**CLASSIC
STEEL COIL**

PRODUCT INFORMATION



Everything under one roof
On Demand Quality Roofing Services



Local Wisdom... Beautiful Results...

CRIPL UNIT – II STEEL COIL PROCESSING



**CLASSIC ROOF INDIA P LTD – UNIT – II.
“STEEL SERVICE CENTER” FOR STEEL COIL PROCESSING
SLITTING LINE TECHNICAL SPECIFICATIONS**

INPUT MATERIAL	SLITTING LINE	CUT-TO-LENGTH LINE (CTL)
Material	CRCA/HRPO/PPGI/PPGL/GP-GI/ Stainless Steel – SS Coils	CRCA/HRPO/PPGI/PPGL/GP-GI/ Stainless Steel – SS Coils
Tensile Strength	580 mpa max	580 mpa max
Thickness	Strip Thickness 4mm max	Strip Thickness 0.4mm to 4mm max
Width	Strips 30mm onwards	1000 – 1600mm max Length 400 to 4000mm max & above as per specific requirement
Coil Inside Diameter	508/610/750 max	508/610/750 max
Coil Outside Diameter	2000mm	2000mm
Coil Width	200mm to 1600mm Max	200mm to 1600mm Max
PRODUCT – NARROW STRIPS AND WIDE SLIT COIL		CUT LENGTH SHEETS
Inside diameter of winding	508mm	
Outside Dia of Winding	2000mm	
Minimum Slitting Width	30mm	
Weight of Winding	2 MT	
LINE DRIVE		
Line Speed Max.	80 - 100 mtrs per minute max.	40 – 50 mtrs per minute
The complete line is controlled by	Operator	
Slitting System	Automated Controlled By PLC	
ADDITIONAL INFORMATION - PARAMETERS		
Surface	Smooth for CR/HRPO/GP	Smooth & Mat Finish for SS Coil
Coil OD in mm	2000mm	
Coil ID in mm	508mm	
Coil Weight Limit in MT	28 Tons Max	
Coil Width Tolerance	0.05mm	
Max Edge Burr	Max of 3% of Materials Thickness in 0.4mm – 2mm Max 1.5% % of Materials Thickness in 2mm – 4mm	
PVC Guard Filming	60 micron PVC guard film coating facility available for top side of slit coil. 60 micron PVC guard film coating facility available for both side of cut sheets	
MATERIAL HANDLING EQUIPMENTS		
Overhead Crane capacity in MT	12 Tons & 30 Tons	
C-Hook capacity in MT	12 Tons & 30 Tons	
Forklift Capacity in MT	5 Tons	



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