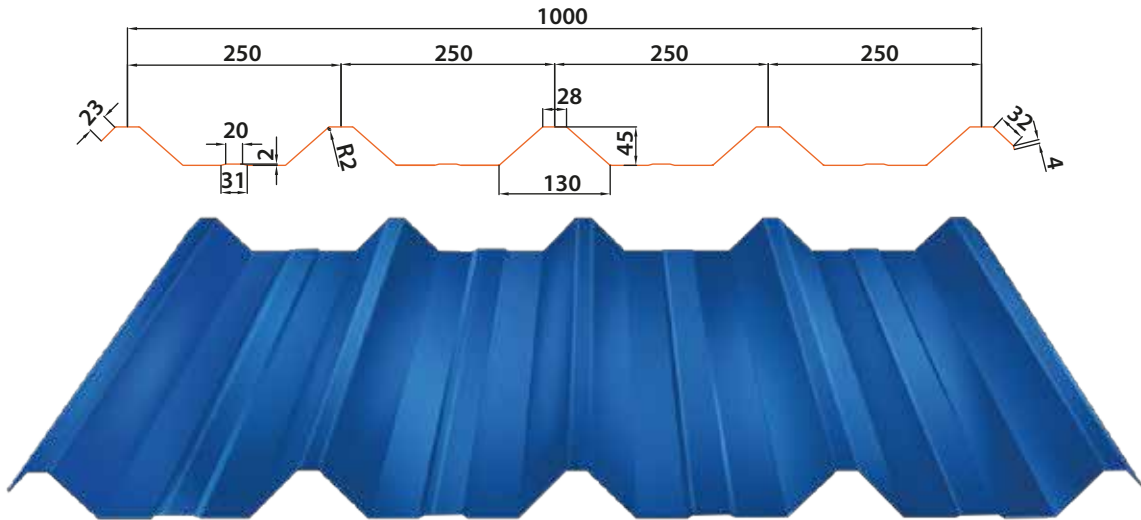


STEEL GS 45/250 PROFILE SHEET

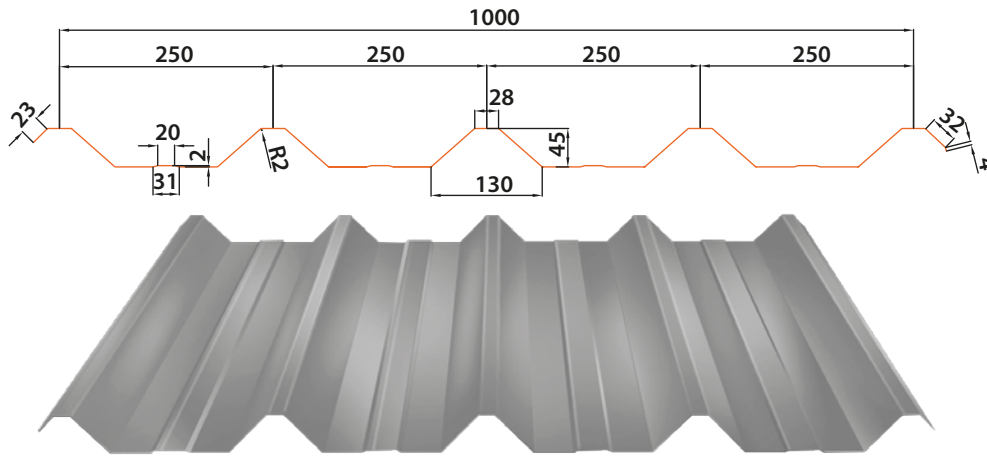


panel Thk	Area	Weight	Inertia	ZTop	ZBottom	Max. Moment		Max. Recommended Sheet Length
						Top	Bottom	
(mm)	(cm ²)	(kg/m ²)	(cm ⁴)	(cm ³)	(cm ³)	(Kn m)	(Kn m)	(m)
0.5	5.91	4.78	15.66	4.95	11.28	0.67	0.77	8.00
0.7	8.27	6.70	24.85	8.52	15.92	1.12	1.10	8.00
0.9	10.63	8.61	32.56	10.86	20.45	1.48	1.44	8.00
panel Thk	Weight	Span condition	Purlin Spacing C/C in metre					
			1	1.25	1.5	1.75	2	2.25
(mm)	(kg/m ²)		Allowable working loads (Kn/m ²)					
0.5	4.78	One	11.52	7.37	5.12	3.76	2.88	2.28
		Two	10.65	7.00	4.94	3.66	2.82	2.23
		Three	12.92	8.57	6.08	4.53	3.45	2.78
0.7	6.70	One	17.76	11.36	7.89	5.80	4.44	3.51
		Two	16.99	11.07	7.75	5.71	4.40	3.47
		Three	20.95	13.68	9.60	7.10	5.47	4.34
0.9	8.61	One	23.36	14.95	10.38	7.63	5.84	4.62
		Two	22.57	14.62	10.22	7.54	5.79	4.58
		Three	27.81	18.10	12.69	9.38	7.21	5.71

Technical Specifications:

- The Pre-painted roof and wall panels shall be 0.4, 0.5, 0.7, 0.9 mm Zinc galvanized steel roll formed
- The steel shall have a minimum yield strength of 230N/mm² and confirm to ASTM A 653
- The Zinc coating is achieved through a continuous hot dip galvanizing process that equals to or exceeds per ASTM A 527
- Exterior surface shall be precision coated with baked enamel polyester coated type finish to dry film thickness 25 (±5 microns). The reverse side shall be Grey/White with 5 microns film thickness
- Green Scope panels is available in different colors

ALUMINIUM GS 45/250 PROFILE SHEET



panel Thk	Area	Weight	Inertia	ZTop	ZBottom	Max. Moment		Max. Recommended Sheet Length
						Top	Bottom	
(mm)	(cm ²)	(kg/m ²)	(cm ⁴)	(cm ³)	(cm ³)	(Kn m)	(Kn m)	(m)
0.5	5.91	1.61	16.60	5.52	10.75	0.65	1.24	8.00
0.7	8.27	2.25	23.25	7.70	14.95	0.90	1.73	8.00
0.9	10.63	2.89	29.80	9.85	19.11	1.15	2.21	8.00
panel Thk	Weight	Span condition	Purlin Spacing C/C in metre					
			1	1.25	1.5	1.75	2	
(mm)	(kg/m ²)		Allowable working loads (Kn/m ²)					
0.5	1.61	One	6.56	4.20	2.84	1.92	1.34	0.94
		Two	5.38	3.66	2.64	1.99	1.54	1.24
		Three	6.28	4.35	3.18	2.41	1.89	1.48
0.7	2.25	One	10.32	6.60	4.41	2.82	1.88	1.32
		Two	9.60	6.29	4.44	3.29	2.53	2.01
		Three	11.66	7.72	5.47	4.07	2.98	2.18
0.9	2.89	One	14.32	9.17	5.76	3.62	2.42	1.70
		Two	13.69	8.90	6.24	4.61	3.54	2.80
		Three	16.69	10.99	7.72	5.49	3.96	2.87

This Profile can be produced in any of the following technical specifications:

Thickness : 0.5mm to 0.7mm

Coating : Polyester coating 20 to 25 microns on weather side, Epoxy primer 5 microns on reverse side. Other coatings available on request.

Colours : See separate colour chart from raw material supplier.

Material Specifications : See separate brochure from raw material supplier.

Calculations are based on AISI and on a limiting stress 170 N/mm²

Thickness refers to Total Coating (TCT) thickness.

The recommended maximum length is based on ease of handling on site and erection.

GS produces Lengths up to 12 meter.

Such details are indicative of products available and shall not replace agreed offers and specifications.

GS reserves the right to amend the above details at any time without notification.

PRODUCT DATA SHEET OF 'Z' PURLIN

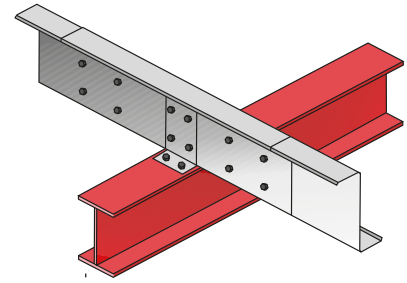
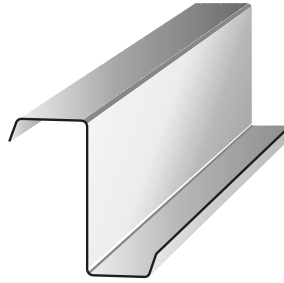
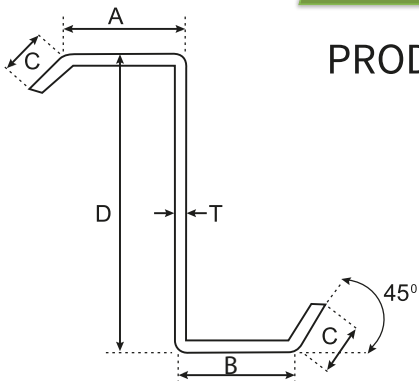
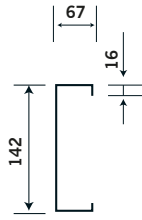


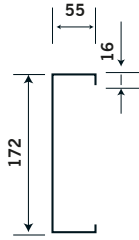
TABLE OF PROPERTIES FOR Z SECTION

Section	General Properties					Section Properties									
	Weight Kg/m	D mm	T mm	A mm	B mm	C mm	Ix defl (cm ⁴)	Sx (T) (cm ³)	Sx (B) (cm ³)	Sxe (T) (cm ³)	Sxe (B) (cm ³)	Rx (cm)	Ly (cm ⁴)	Sy (cm ³)	Ry (cm)
Z 14215	3.21	142	1.50	55	50	15	128.900	18.480	17.830	17.203	17.600	5.585	33.650	5.010	2.854
Z14218	3.85	142	1.80	55	50	15	153.300	21.990	21.210	21.990	21.210	5.571	39.900	5.960	2.842
Z 14220	4.29	142	2.00	55	50	15	169.300	24.290	23.430	24.290	23.430	5.561	43.990	6.580	2.834
Z 14225	5.36	142	2.50	55	50	15	208.600	29.920	28.860	29.920	28.860	5.537	53.910	8.090	2.815
Z 17215	3.45	172	1.50	55	50	16	194.000	22.950	22.190	20.040	21.490	6.617	27.580	4.330	2.495
Z 17218	4.14	172	1.80	55	50	16	231.000	27.320	26.420	25.690	26.080	6.602	32.680	5.140	2.483
Z 17220	4.6	172	2.00	55	50	16	255.300	30.200	29.200	28.820	28.920	6.592	36.010	5.670	2.476
Z 17225	5.75	172	2.50	55	50	16	315.000	37.250	36.020	37.250	36.020	6.567	44.080	6.970	2.457
Z 20215	3.92	202	1.50	55	50	16	301.700	30.320	29.440	26.290	28.410	7.721	35.860	5.160	2.662
Z 20218	4.7	202	1.80	55	50	16	359.600	26.130	35.080	32.500	34.200	7.705	42.540	6.130	2.650
Z 20220	5.23	202	2.00	55	50	16	397.700	39.960	38.800	37.490	38.250	7.695	46.910	6.770	2.643
Z 20225	6.53	202	2.50	55	50	16	491.400	49.380	47.940	48.050	47.670	7.670	57.510	8.330	2.624
Z 23215	4.53	232	1.50	75	67	17	462.700	40.400	39.380	31.970	37.540	8.900	55.220	6.890	3.075
Z 23218	5.44	232	1.80	70	65	17	551.900	48.190	46.980	41.400	45.210	8.884	65.610	8.200	3.063
Z 23220	6.04	232	2.00	70	65	17	610.800	53.340	51.990	45.880	50.050	8.874	72.420	9.060	3.056
Z 23225	7.55	232	2.50	70	65	17	755.900	66.010	64.340	62.070	63.450	8.849	89.020	11.170	3.037
Z 25215	4.71	252	1.50	65	60	16	558.900	44.900	43.820	34.060	41.650	9.563	53.410	6.710	2.956
Z 25218	5.71	252	1.80	65	60	16	666.800	53.580	52.290	46.120	50.240	9.547	63.440	7.990	2.945
Z 25220	6.34	252	2.00	65	60	16	738.100	59.310	57.870	50.940	55.570	9.537	70.020	8.830	2.937
Z 25225	7.93	252	2.50	65	60	16	913.900	73.430	71.660	68.630	70.470	9.511	86.060	10.880	2.918
Z 30218	6.85	302	1.80	85	80	16	1159.100	77.550	75.990	54.030	71.170	11.483	106.240	11.250	3.477
Z 30220	7.61	302	2.00	85	80	16	1283.800	85.900	84.170	64.840	79.330	11.473	117.370	12.440	3.469
Z 30225	9.52	302	2.50	85	80	16	1592.200	106.530	104.380	87.610	98.900	11.447	144.640	15.370	3.450

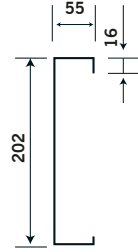
- Minimum Specified Yield Stress $F_y = 340\text{N/mm}^2$
- Material: Galvanized (GI) Grade SS-340 ASTM A653M.
- Coating/Finish: G90 (275 grms/m² Zinc Coating).
- Material Thickness is 1.5 to 3.0mm.
- Dimensions: Span upto 12.0 meters & Depth is 100 to 350 mm.
- Section properties are calculated in accordance with the 2001 edition of the American Iron and Steel Institute “Specifications” (A.I.S.I).
- Top flange is fully braced & bottom flange is fully un braced.
- Such details are indicative of products availability and shall not replace agreed offers and specifications
- Allowable loads are applicatble for 2 more bays and upto roof slopes of 3:10 only.
- Allowable capacities for uplift loads are increased by 33.33% as per AISI 3.
- GS reserves the right to amend the above details at anytime without notification.



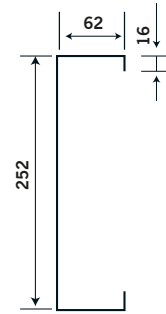
C-142 SERIES



C-172 SERIES



C-202 SERIES



C-252 SERIES

We can produce any size from 100 mm to 350 mm web and 40 mm to 120 mm flange size as per your requirement

“TABLE OF PROPERTIES FOR C SECTION”

Section	General Properties					Section Properties								
	Weight	Area	Depth (D)	Flang (B)	LIP (C)	Thick (T)	lxx	lyy	rxx	ryy	J	CW	Mx	My
	Kg/m	cm ²	mm	mm	mm	mm	cm ⁴	cm ⁴	cm	cm	cm ⁴	cm ⁶	KN-m	KN-m
142 C 15	3.22	4.1	142	67	16	1.50	125.2	17.5	5.53	2.06	0.031	860	3.65	1.01
142 C 18	3.86	4.91	142	67	16	1.80	149.3	20.9	5.51	2.06	0.053	1040	2.66	1.21
142 C 20	4.29	5.46	142	67	16	2.20	165.1	23.2	5.5	2.06	0.073	1161	5.02	1.33
142 C 25	5.36	6.83	142	67	16	2.50	204	28.8	5.47	2.05	0.142	1469	6.13	1.6
172 C 15	3.59	4.58	172	55	16	1.50	219.1	17.1	6.92	1.93	0.034	1241	5.08	1.04
172 C 18	4.31	5.49	172	55	16	1.80	261.8	20.5	6.91	1.93	0.059	1497	6.34	1.23
172 C 20	4.79	6.1	172	55	16	2.20	290.1	22.8	6.9	1.93	0.081	1668	7	1.36
172 C 25	5.99	7.36	172	55	16	2.50	359.8	28.4	6.87	1.93	0.159	2102	8.61	1.64
202 C 15	3.92	5	202	55	16	1.50	294.1	21.2	7.67	2.06	0.038	1847	5.99	1.19
202 C 18	4.71	5.99	202	55	16	1.80	315.6	25.5	7.66	2.06	0.065	2227	7.37	1.42
202 C 20	5.23	6.66	202	55	16	2.20	389.7	28.3	7.65	2.06	0.089	2483	8.37	1.56
202 C 25	6.54	8.33	202	55	16	2.50	484.1	35.4	7.63	2.06	0.173	3128	10.47	1.89
232 C 15	4.54	5.78	232	62	16	1.50	452.6	33.3	8.85	2.4	0.043	3737	7.02	1.52
232 C 18	5.44	6.93	232	62	16	1.80	541.4	40	8.84	2.4	0.075	4507	9.1	1.82
232 C 20	6.05	7.7	232	62	16	2.20	600.3	44.5	8.83	2.4	0.103	5019	10.18	2.01
232 C 25	7.56	9.63	232	62	16	2.50	746.4	55.6	8.81	2.4	0.201	6319	13.34	2.43
252 C 15	4.77	6.08	252	62	16	1.50	551	34.1	9.52	2.37	0.046	4498	7.55	1.53
252 C 18	5.73	7.29	252	62	16	1.80	659.4	40.9	9.51	2.37	0.079	5420	9.96	1.82
252 C 20	6.36	8.1	252	62	16	2.20	731.2	45.5	9.5	2.37	0.108	6038	11.43	2.01
252 C 25	7.95	10.13	252	62	16	2.50	909.7	57	9.58	2.37	0.211	7597	14.96	2.45
252 C 30	9.70	12.25	252	62	16	3.00	1106.9	68.9	9.51	2.37	0.367	8253	18.19	2.85

- Minimum Specified Yield Stress $F_y = 345\text{N/mm}^2$
- Material: Galvanized (GI) Grade SQ-50 ASTM A653M.
- Coating/Finish: G90 (275 grms/m² Zinc Coating).
- Material Thickness is 1.5 to 3.0mm.
- Dimensions: Span upto 12.0 meters & Depth is 100 to 350 mm.
- Section properties are calculated in accordance with the 2001 edition of the American Iron and Steel Institute “Specifications” (A.I.S.I).
- Top flange is fully braced & bottom flange is fully un braced.
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