

# **Z-PURLIN**

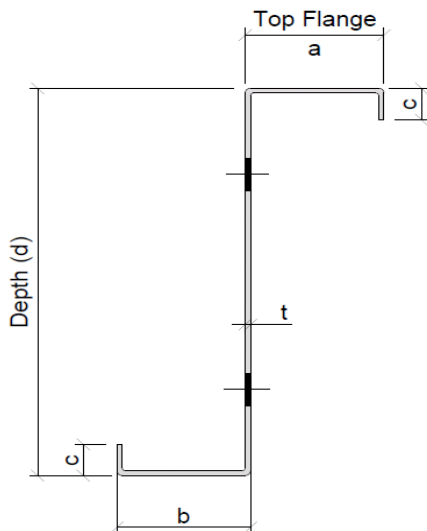
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## **Load Tables**

## Z-PURLIN: GRADE G50

Cold Formed Profile	Z Section
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PRODUCT & MATERIAL SPECIFICATIONS	
<b>MATERIAL</b>	A653M. Structural Steel (SS), Grade 50 Class 1
<b>COATING /FINISH</b>	G90 (275 grams/m2 Zinc Coating)
<b>MINIMUM SPECIFIED YIELD STRENGTH FY</b>	340 N/mm <sup>2</sup>
<b>MATERIAL THICKNESS</b>	1.5 mm ,1,75 mm, 2.0 mm, 2.5 mm, 3.0 mm
<b>DEPTHS (D)</b>	122 mm to 342 mm
<b>NOTES</b>	a) Design of Purlins is based on AISI- 2012 (ASD-Allowable Stress Design Method)
	b) Sag rods are located at equal spacing



## Z-PURLIN: GRADE G50

Section	General Properties						Section Properties						
	Weight Kg/m	d (mm)	t (mm)	a (mm)	b (mm)	c (mm)	Ix defl cm4	Sxe(t) cm3	Sxebcm3	Rx cm	Iy cm4	Sy cm3	Ry cm
122Z15	2.92	122	1.5	55	50	17	88.5	13.30	13.77	4.86	29.92	4.61	2.83
142Z15	3.21	142	1.5	55	50	20	128.9	17.34	17.63	5.59	33.65	5.01	2.85
142Z17	3.77	142	1.75	55	50	20	149.3	21.41	20.66	5.57	38.87	5.8	2.84
142Z20	4.29	142	2	55	50	20	169.3	24.29	23.43	5.56	43.99	6.58	2.83
142Z25	5.36	142	2.5	55	50	20	208.6	29.92	28.87	5.54	53.91	8.09	2.82
172Z15	3.57	172	1.5	60	55	15	205.0	20.72	22.62	6.69	34.5	5.02	2.74
172Z17	4.18	172	1.75	60	55	15	237.6	25.16	25.56	6.67	39.87	5.81	2.73
172Z20	4.74	172	2	60	55	15	269.9	29.92	29.46	6.66	45.11	6.59	2.73
172Z25	5.93	172	2.5	60	55	15	333.0	37.83	37.81	6.64	55.3	8.11	2.71
202Z15	3.92	202	1.5	60	55	16	301.7	26.29	26.61	7.72	35.86	5.16	2.66
202Z17	4.62	202	1.75	60	55	16	350.0	31.87	32.39	7.71	41.44	5.97	2.65
202Z20	5.23	202	2	60	55	16	397.7	37.67	37.43	7.70	46.91	6.77	2.64
202Z25	6.53	202	2.5	60	55	16	491.4	46.92	45.51	7.60	57.51	8.33	2.62
232Z15	4.76	232	1.5	75	70	17	482.6	32.17	31.81	9.00	66.04	7.75	3.31
232Z17	5.47	232	1.8	75	70	17	565.4	40.80	40.80	8.96	76.4	8.99	3.31
232Z20	6.04	232	2	75	70	17	637.3	47.59	47.98	8.95	86.68	10.21	3.30
232Z25	7.55	232	2.5	75	70	17	789.0	63.27	63.20	8.93	106.66	12.6	3.28
252Z15	4.76	252	1.5	70	65	16	558.9	34.06	33.64	9.56	53.41	6.71	2.96
252Z17	5.58	252	1.75	70	65	16	649.0	44.08	43.56	9.55	61.79	7.78	2.95
252Z20	6.34	252	2	70	65	16	738.1	52.45	52.80	9.54	70.02	8.83	2.94
252Z25	7.93	252	2.5	70	65	16	913.9	69.20	68.14	9.51	86.06	10.88	2.92
302Z17	6.8	302	1.75	90	82	16	1155.2	51.61	51.32	11.54	115.43	11.68	3.65
302Z20	7.76	302	2	90	82	16	1315.1	65.01	64.36	11.53	131.01	13.27	3.64
302Z25	9.71	302	2.5	90	82	16	1631.2	91.82	92.8	11.50	161.53	16.407	3.62
302Z30	11.67	302	3	90	82	16	1942.3	115.3	116.87	11.48	191.18	19.47	3.60
342Z20	8.76	342	2	100	92	20	1932.0	77.57	77.17	13.10	193.2	17.32	4.14
342Z25	10.87	342	2.5	100	92	20	2387.7	114.36	112.82	13.67	238.6	21.44	4.12
342Z30	13.13	342	3	100	92	20	2845.7	145.18	147	13.04	282.87	26.65	4.10

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m <sup>2</sup>					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SIMPLE SPAN</b>												
<b>SPAN 3.50 M</b>												
122Z15	2.92	5.04	1.44	1.2	0.96	0.8	0.72	6.16	4.54	5.13	-	-
142Z15	3.21	6.23	1.78	1.48	1.19	0.99	0.89	8.96	5.88	6.31	-	-
142Z17	3.77	7.74	2.21	1.34	1.42	1.23	1.1	10.4	6.82	7.81	-	-
142Z20	4.29	9.28	2.65	2.21	1.77	1.47	1.33	11.8	7.73	9.39	-	-
142Z25	5.36	12.53	3.58	2.98	2.39	1.99	1.79	14.53	9.52	12.63	-	-
<b>Span 4.00 M</b>												
122Z15	2.92	4.4	1.1	0.92	0.73	0.61	0.55	4.72	3.98	4.49	-	-
142Z15	3.21	5.48	1.37	1.14	0.91	0.76	0.69	6.88	5.14	5.52	-	-
142Z17	3.77	6.72	1.68	1.4	1.12	0.93	0.84	7.99	5.97	6.83	-	-
142Z20	4.29	8.12	2.03	1.69	1.35	1.13	1.02	9	6.76	8.21	-	-
142Z25	5.36	10.96	2.74	2.28	1.83	1.52	1.37	11.08	8.34	10.99	-	-
172Z15	3.57	6.4	1.6	1.33	1.07	0.89	0.8	10.85	5.6	6.52	-	-
172Z17	4.18	8	2	1.67	1.33	1.11	1	12.63	6.85	8.13	-	-
172Z20	4.76	9.72	2.43	2.03	1.62	1.35	1.22	14.36	7.88	9.89	-	-
172Z25	5.95	13.36	3.34	2.78	2.23	1.86	1.67	17.74	10.2	13.56	-	-
<b>Span 4.50 M</b>												
142Z15	3.21	4.86	1.08	0.9	0.72	0.6	0.54	5.4	4.58	4.9	-	-
142Z17	3.77	5.99	1.33	1.11	0.89	0.74	0.67	6.23	5.26	6.06	-	-
142Z20	4.29	7.25	1.61	1.34	1.07	0.89	0.81	7.2	6.02	7.29	-	-
142Z25	5.36	9.77	2.17	1.81	1.45	1.21	1.09	8.78	7.41	9.28	-	-
172Z15	3.57	5.67	1.27	1.06	0.85	0.71	0.64	8.61	4.99	5.78	-	-
172Z17	4.18	7.16	1.59	1.33	1.06	0.88	0.8	10.05	6.1	7.24	-	-
172Z20	4.76	8.64	1.92	1.6	1.28	1.07	0.96	11.31	7.02	8.77	-	-
172Z25	5.95	11.88	2.64	2.2	1.75	1.47	1.32	14.07	9.09	12.06	-	-
202Z15	3.92	6.93	1.54	1.28	1.03	0.86	0.77	12.78	6.34	7.01	-	-
202Z17	4.62	8.69	1.93	1.61	1.29	1.07	0.97	14.72	7.72	8.79	-	-
202Z20	5.23	10.58	2.35	1.96	1.57	1.31	1.18	16.65	9.93	10.7	-	-
202Z25	6.53	14.76	3.28	2.73	2.19	1.82	1.64	20.75	11.43	14.76	-	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m <sup>2</sup>					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SIMPLE SPAN</b>												
<b>Span 5.00 M</b>												
172Z15	3.57	5.15	1.03	0.86	0.69	0.57	0.52	6.97	-	5.21	5.21	-
172Z17	4.18	6.45	1.29	1.07	0.86	0.72	0.65	8.07	-	6.59	6.5	-
172Z20	4.76	7.8	1.56	1.3	1.04	0.87	0.78	9.19	-	7.9	7.9	-
172Z25	5.95	10.7	2.14	1.78	1.43	1.19	1.07	11.35	8.17	10.17	10.85	-
202Z15	3.92	6.25	1.25	1.04	0.83	0.69	0.63	10.35	-	6.31	6.31	-
202Z17	4.62	7.85	1.57	1.31	1.05	0.87	0.78	12.03	6.96	7.92	7.92	-
202Z20	5.23	9.5	1.9	1.58	1.27	1.06	0.95	13.55	8.03	9.62	9.62	-
202Z25	6.53	13.1	2.62	2.18	1.77	1.46	1.31	16.8	10.3	12.82	13.27	-
232Z15	4.76	7.7	1.54	1.28	1.01	0.86	0.77	16.5	5.25	7.82	7.82	-
232Z17	5.47	9.7	1.94	1.62	1.33	1.08	0.97	19.17	6.77	9.82	9.82	-
232Z20	6.34	11.8	2.36	1.97	1.55	1.31	1.18	21.8	7.92	11.97	11.97	-
232Z25	7.93	16.4	3.28	2.73	2.16	1.82	1.64	26.86	10.43	16.63	16.63	-
<b>Span 5.50 M</b>												
172Z25	5.95	9.68	1.76	1.47	1.17	0.98	0.88	7.34	-	5.77	7.1	-
202Z15	3.92	5.67	1.03	0.86	0.69	0.57	0.52	8.47	-	5.74	5.74	-
202Z17	4.62	7.15	1.3	1.08	0.87	0.72	0.65	9.91	-	7.2	7.2	-
202Z20	5.23	8.64	1.57	1.31	1.05	0.87	0.79	11.22	7.3	8.7	8.75	-
202Z25	6.53	11.94	2.17	1.81	1.45	1.21	1.09	13.92	9.35	10.80	12	-
232Z15	4.76	6.93	1.26	1.05	0.84	0.7	0.63	13.6	-	7	7	-
232Z17	5.47	8.8	1.6	1.33	1.06	0.89	0.8	15.8	6.16	8.93	8.93	-
232Z20	6.34	10.62	1.93	1.61	1.29	1.07	0.97	17.96	7.2	10.9	10.9	-
232Z25	7.93	14.9	2.71	2.26	1.81	1.51	1.36	22.3	9.45	15	15	-
252Z15	4.76	7.43	1.35	1.13	0.9	0.75	0.68	15.79	-	7.49	7.49	-
252Z17	5.58	9.35	1.7	1.41	1.13	0.94	0.85	18.37	6.7	9.45	9.45	-
252Z20	6.34	11.44	2.08	1.73	1.39	1.16	1.04	20.85	7.95	11.55	11.55	-
252Z25	7.93	15.95	2.9	2.42	1.93	1.61	1.45	25.69	10.2	16.1	16.1	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m <sup>2</sup>					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SIMPLE SPAN</b>												
<b>Span 6.00 M</b>												
202Z17	4.62	6.54	1.09	0.91	0.73	0.61	0.54	8.41	-	6.27	6.59	-
202Z20	5.23	7.92	1.32	1.1	0.88	0.73	0.66	9.54	-	7.26	8.01	-
202Z25	6.53	10.92	1.82	1.52	1.21	1.01	0.91	11.82	-	9.06	10.35	-
232Z15	4.76	6.42	1.07	0.88	0.71	0.59	0.53	11.58	-	6.41	6.41	-
232Z17	5.44	8.1	1.35	1.12	0.9	0.75	0.67	13.38	-	8.18	8.18	-
232Z20	6.34	9.72	1.62	1.35	1.08	0.9	0.81	15.3	-	9.97	9.97	-
232Z25	7.93	13.5	2.25	1.88	1.5	1.25	1.13	19	-	13.86	13.86	-
252Z15	4.76	6.78	1.13	0.94	0.75	0.63	0.57	13.26	-	6.86	6.86	-
252Z17	5.58	8.58	1.43	1.19	0.95	0.75	0.71	15.6	-	8.66	8.66	-
252Z20	6.34	10.5	1.75	1.46	1.17	0.97	0.88	17.7	-	10.58	10.58	-
252Z25	7.93	14.64	2.44	2.03	1.63	1.36	1.22	21.72	-	14.76	14.76	-
<b>Span 6.50 M</b>												
202Z20	5.23	7.28	1.12	0.93	0.75	0.62	0.56	8	-	6.17	7.18	-
202Z25	6.53	10.27	1.58	1.32	1.05	0.88	0.79	10	-	7.91	8.9	-
232Z15	4.76	5.85	0.9	0.75	0.6	0.5	0.45	9.9	-	5.92	5.92	-
232Z17	5.47	7.48	1.15	0.96	0.77	0.64	0.57	11.5	-	7.7	7.7	-
232Z20	6.34	8.97	1.38	1.15	0.92	0.77	0.69	13.1	-	9.2	9.2	-
232Z25	7.93	12.48	1.92	1.6	1.28	1.07	0.96	16.2	-	12.7	12.7	-
252Z17	5.58	7.93	1.22	1.02	0.81	0.68	0.61	13.32	-	8	8	-
252Z20	6.34	9.69	1.49	1.24	0.99	0.83	0.75	15.15	-	9.67	9.67	-
252Z25	7.93	13.52	2.08	1.73	1.39	1.16	1.04	18.72	-	13.05	13.65	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m2					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SIMPLE SPAN</b>												
<b>Span 7.00 M</b>												
202Z25	6.53	9.52	1.36	1.13	0.91	0.76	0.68	8.61	-	7.87	8.13	-
232Z17	5.47	7.14	1.02	0.85	0.68	0.57	0.51	9.88	-	7.03	7.03	-
232Z20	6.34	8.33	1.19	0.99	0.79	0.66	0.6	11.3	-	8.54	8.54	-
232Z25	7.93	11.55	1.65	1.38	1.1	0.92	0.83	13.93	-	11.15	11.9	-
252Z17	5.58	7.35	1.05	0.88	0.7	0.58	0.52	11.45	-	7.4	7.4	-
252Z20	6.34	8.96	1.28	1.07	0.85	0.71	0.64	13.02	-	8.64	9.05	-
252Z25	7.93	12.53	1.79	1.49	1.19	0.99	0.9	16.15	-	11.1	12.65	-
<b>Span 7.50 M</b>												
202Z25	6.53	8.85	1.18	0.98	0.79	0.66	0.59	7.43	-	6.85	6.85	-
232Z20	6.34	7.8	1.04	0.87	0.69	0.58	0.52	9.8	-	7.55	7.96	-
232Z25	7.93	10.8	1.44	1.2	0.96	0.8	0.72	12.15	-	9.75	11	-
252Z20	6.34	8.4	1.12	0.93	0.75	0.62	0.56	11.35	-	7.4	8.45	-
252Z25	7.93	11.7	1.56	1.3	1.04	0.87	0.78	13.8	-	9.35	11.2	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m2					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SIMPLE SPAN</b>												
<b>Span 8.00 M</b>												
202Z25	6.53	8.16	1.02	0.85	0.68	0.57	0.51	8.65	-	6.45	6.45	-
232Z25	7.93	10.24	1.28	1.07	0.85	0.71	0.64	10.65	-	8.48	9.8	-
252Z25	7.93	10.96	1.37	1.14	0.91	0.76	0.69	12.35	-	7.80	9.8	-
302Z20	7.78	9.92	1.24	1.08	0.83	0.69	0.62	17.70	-	10.10	10.10	-
302Z25	9.73	13.92	1.74	1.45	1.16	0.97	0.87	22.10	-	14.20	14.20	-
302Z30	11.68	18.8	2.30	1.92	1.53	1.28	1.15	26.06	-	17.50	18.80	-
<b>Span 8.50 M</b>												
232Z25	7.93	9.61	1.12	0.93	0.75	0.62	0.56	9.45	-	7.20	8.7	-
252Z25	7.93	10.29	1.21	1.01	0.81	0.67	0.61	10.95	-	6.60	8.45	-
302Z20	7.78	9.35	1.10	0.92	0.73	0.61	0.55	15.75	-	9.45	9.45	-
302Z25	9.73	13.18	1.55	1.29	1.03	0.86	0.78	19.55	-	12.70	13.4	-
302Z30	11.68	17.34	2.04	1.70	1.36	1.13	1.02	23.30	-	15.40	17.7	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m2					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SIMPLE SPAN</b>												
<b>Span 9.00 M</b>												
232Z25	7.93	9.09	1	0.83	0.67	0.56	0.5	8.4	-	6.12	7.76	9.22
252Z25	7.93	9.72	1.08	0.9	0.72	0.6	0.54	9.7	-	6.25	7.2	9.8
302Z20	7.78	8.82	0.98	0.82	0.65	0.54	0.49	14	-	8.46	8.97	8.97
302Z25	9.73	12.42	1.38	1.15	0.92	0.77	0.69	17.45	-	11.05	12.65	12.65
302Z30	11.68	16.38	1.82	1.52	1.21	1.01	0.91	20.7	-	13	15.9	16.7
342Z20	8.73	10.98	1.22	1.02	0.81	0.68	0.61	20.5	-	11.11	11.11	11.11
342Z25	10.91	15.39	1.71	1.43	1.14	0.95	0.86	25.4	-	15.59	15.59	15.59
342Z30	13.1	20.25	2.25	1.88	1.5	1.25	1.12	30.4	-	20.3	20.55	20.55
<b>Span 9.50 M</b>												
252Z25	7.93	9.22	0.97	0.81	0.65	0.54	0.49	8.75	-	5.92	6.1	9.3
302Z20	7.78	8.36	0.88	0.73	0.59	0.49	0.44	12.55	-	7	8.3	8.3
302Z25	9.73	11.78	1.24	1.03	0.83	0.69	0.62	15.5	-	9.54	11.82	11.98
302Z30	11.58	15.58	1.64	1.37	1.09	0.91	0.82	18.5	-	11.78	14.25	15.84
342Z20	8.73	10.36	1.09	0.91	0.73	0.61	0.55	18.3	-	10.47	10.47	10.47
342Z25	10.91	14.54	1.53	1.28	1.02	0.85	0.77	22.8	-	14.77	14.77	14.77
342Z30	13.1	19.19	2.02	1.68	1.35	1.12	1.01	27.05	-	18.15	19.45	19.45

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m2					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SIMPLE SPAN</b>												
<b>Span 10.00 M</b>												
342Z20	8.76	9.9	0.99	0.83	0.66	0.55	0.5	16.83	-	7.63	9.48	9.99
342Z25	10.87	13.8	1.38	1.15	0.92	0.77	0.69	20.87	-	9.72	12.5	14.03
342Z30	13.14	18.2	1.82	1.52	1.21	1.01	0.91	24.83	-	12.14	15.14	18.51
<b>Span 10.50 M</b>												
342Z20	8.73	9.45	0.9	0.75	0.6	0.5	0.45	15	-	8.9	9.5	9.5
342Z25	10.91	13.13	1.25	1.04	0.832	0.69	0.63	18.7	-	11.75	13.35	13.35
342Z30	13.1	17.33	1.65	1.38	1.1	0.92	0.83	22.3	-	14.35	17.2	17.2
<b>Span 11.00 M</b>												
342Z20	8.73	9.02	0.82	0.68	0.55	0.46	0.41	13.75	-	7.9	9.1	9.1
342Z25	10.91	12.54	1.14	0.95	0.76	0.63	0.57	16.25	-	10.35	12.75	12.75
342Z30	13.1	16.5	1.5	1.25	1	0.83	0.75	19.4	-	12.75	16.55	16.8



Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m2					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SLEEVE SYSTEM</b>												
<b>Span 3.50 M</b>												
122Z15	2.92	5.99	1.71	1.43	1.14	0.95	0.86	11.83	5.9	-	-	-
142Z15	3.21	7.35	2.1	1.75	1.4	1.17	1.05	17.23	7.29	-	-	-
142Z17	3.77	9.1	2.6	2.17	1.73	1.44	1.3	19.96	8.99	-	-	-
142Z20	4.29	10.96	3.13	2.62	2.09	1.74	1.57	22.63	10.84	-	-	-
142Z25	5.36	14.77	4.22	3.52	2.81	2.34	2.11	27.88	14.63	-	-	-
<b>Span 4.00 M</b>												
122Z15	2.92	5.24	1.31	1.09	0.87	0.73	0.66	9.06	5.16	-	-	-
142Z15	3.21	6.44	1.61	1.34	1.07	0.89	0.81	13.19	6.37	-	-	-
142Z17	3.77	7.92	1.98	1.65	1.32	1.1	0.99	15.28	7.87	-	-	-
142Z20	4.29	9.56	2.39	1.99	1.59	1.33	1.2	17.33	9.48	-	-	-
142Z25	5.36	12.92	3.23	2.69	2.15	1.79	1.62	21.35	12.8	-	-	-
172Z15	3.57	7.6	1.9	1.58	1.27	1.06	0.95	20.97	7.49	-	-	-
172Z17	4.18	9.52	2.38	1.98	1.59	1.32	1.19	24.31	9.35	-	-	-
172Z20	4.76	11.52	2.88	2.4	1.92	1.6	1.44	27.59	11.36	-	-	-
172Z25	5.95	15.84	3.96	3.3	2.64	2.2	1.98	34.04	15.6	-	-	-
<b>Span 4.50 M</b>												
142Z15	3.21	5.72	1.27	1.06	0.85	0.71	0.64	10.42	5.67	5.67	-	-
142Z17	3.77	7.06	1.57	1.31	1.05	0.87	0.78	12.08	6.98	6.98	-	-
142Z20	4.29	8.51	1.89	1.58	1.26	1.05	0.95	13.69	8.43	8.43	-	-
142Z25	5.36	11.48	2.55	2.13	1.7	1.42	1.28	16.87	11.38	11.38	-	-
172Z15	3.57	6.75	1.5	1.25	1	0.83	0.75	16.57	6.66	6.66	-	-
172Z17	4.18	8.46	1.88	1.57	1.25	1.04	0.94	19.22	8.3	8.3	-	-
172Z20	4.76	10.26	2.28	1.9	1.52	1.27	1.14	21.8	10.09	10.09	-	-
172Z25	5.95	14.09	3.13	2.61	2.09	1.74	1.57	26.9	13.87	13.87	-	-
202Z15	3.92	8.19	1.82	1.52	1.21	1.01	0.91	24.4	8.1	8.1	-	-
202Z17	4.62	9.81	2.18	1.82	1.45	1.21	1.09	28.32	10.1	10.1	-	-
202Z20	5.23	12.47	2.77	2.31	1.85	1.54	1.39	32.16	12.33	12.33	-	-
202Z25	6.53	17.01	3.78	3.15	2.52	2.1	1.89	39.74	17.21	17.21	-	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m2					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SLEEVE SYSTEM</b>												
<b>Span 5.00 M</b>												
172Z15	3.57	6.1	1.22	1.01	0.81	0.68	0.61	13.42	6	6	-	-
172Z17	4.18	7.55	1.51	1.26	1	0.84	0.76	15.56	7.5	7.5	-	-
172Z20	4.6	9	1.84	1.53	1.23	1.02	0.92	17.66	9.08	9.09	-	-
172Z25	5.95	12.65	2.53	2.11	1.69	1.41	1.27	21.79	12.47	12.47	-	-
202Z15	3.92	7.35	1.47	1.23	0.98	0.82	0.74	19.76	7.29	7.29	-	-
202Z17	4.62	9.25	1.85	1.54	1.23	1.03	0.93	22.94	9.12	9.12	-	-
202Z20	5.23	11.25	2.25	1.88	1.5	1.25	1.13	26.05	11.1	11.1	-	-
202Z25	6.53	15.3	3.06	2.55	2.04	1.7	1.53	32.19	15.5	15.5	-	-
232Z15	4.76	9	1.8	1.5	1.2	1	0.9	31.6	8.9	8.9	-	-
232Z17	5.47	11.95	2.29	1.91	1.53	1.27	1.15	36.72	11.3	11.3	-	-
232Z20	6.34	13.95	2.79	2.33	1.86	1.55	1.4	41.75	13.78	13.78	-	-
232Z25	7.93	19.4	3.88	3.23	2.59	2.16	1.94	51.65	19.15	19.15	-	-
<b>Span 5.50 M</b>												
202Z15	3.92	6.71	1.22	1.02	0.81	0.68	0.61	16.33	6.63	6.63	-	-
202Z17	4.62	8.36	1.52	1.27	1.01	0.84	0.76	18.96	8.3	8.3	-	-
202Z20	5.23	10.23	1.86	1.59	1.24	1.03	0.93	21.53	10.1	10.1	-	-
202Z25	6.53	13.92	2.53	2.11	1.68	1.41	1.27	26.6	14	14	-	-
232Z15	4.76	8.31	1.51	1.26	1	0.84	0.76	26.13	8.19	8.19	-	-
232Z17	5.47	10.4	1.89	1.57	1.26	1.05	0.95	30.34	10.27	10.27	-	-
232Z20	6.34	12.65	2.3	1.92	1.53	1.28	1.15	34.5	12.55	12.55	-	-
232Z25	7.93	17.6	3.206	2.67	2.13	1.78	1.6	42.7	16.9	16.9	-	-
252Z15	4.76	8.75	1.59	1.33	1.06	0.88	0.8	30.25	8.66	8.66	-	-
252Z17	5.58	11	2	1.67	1.33	1.11	1	35.16	11.39	11.39	-	-
252Z20	6.34	13.48	2.45	2.04	1.63	1.36	1.23	39.96	13.34	13.34	-	-
252Z25	7.93	18.81	3.42	2.85	2.28	1.9	1.71	49.47	18.62	18.62	-	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m2					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SLEEVE SYSTEM</b>												
<b>Span 6.00 M</b>												
202Z15	3.92	6.12	1.02	0.85	0.68	0.57	0.51	13.72	-	6.08	6.08	-
202Z17	4.62	7.68	1.28	1.07	0.85	0.71	0.64	15.92	-	7.61	7.61	-
202Z20	5.23	9.36	1.56	1.3	1.04	0.87	0.78	18.09	-	9.25	9.25	-
202Z25	6.53	12.78	2.13	1.78	1.42	1.18	1.07	22.35	-	12.92	12.9	-
232Z15	4.76	7.62	1.27	1.06	0.85	0.71	0.64	21.94	-	7.5	7.5	-
232Z17	5.47	9.54	1.59	1.32	1.06	0.88	0.8	25.5	-	9.4	9.4	-
232Z20	6.34	11.64	1.94	1.62	1.29	1.08	0.97	29	-	11.5	11.5	-
232Z25	7.93	16.14	2.69	2.24	1.79	1.49	1.35	35.85	-	15.95	16	-
252Z15	4.76	7.98	1.33	1.11	0.89	0.74	0.67	25.42	-	7.94	7.94	-
252Z17	5.58	10.08	1.68	1.4	1.12	0.93	0.84	29.54	-	9.98	9.98	-
252Z20	6.34	12.36	2.06	1.72	1.37	1.14	1.03	33.57	-	12.23	12.2	-
252Z25	7.93	17.22	2.87	2.39	1.91	1.59	1.44	41.57	-	17.06	17.1	-
<b>Span 6.50 M</b>												
202Z17	4.62	7.09	1.09	0.91	0.73	0.6	0.55	13.58	-	7.01	7.01	-
202Z20	5.23	8.65	1.33	1.11	0.89	0.74	0.67	15.41	-	8.54	8.54	-
202Z25	6.53	11.77	1.81	1.51	1.21	1	0.91	19.05	-	11.92	11.9	-
232Z15	4.76	7.02	1.08	0.9	0.72	0.6	0.54	18.7	-	6.9	6.9	-
232Z17	5.47	8.77	1.35	1.12	0.9	0.75	0.67	21.73	-	8.7	8.7	-
232Z20	6.34	10.73	1.65	1.38	1.1	0.92	0.83	24.7	-	10.6	10.6	-
232Z25	7.93	14.95	2.3	1.92	1.53	1.28	1.15	30.55	-	14.7	14.7	-
252Z15	4.76	7.41	1.14	0.95	0.76	0.63	0.57	21.66	-	7.33	7.33	-
252Z17	5.58	9.36	1.44	1.2	0.96	0.8	0.72	25.17	-	9.21	9.21	-
252Z20	6.34	11.38	1.75	1.46	1.17	0.97	0.88	28.61	-	11.28	11.3	-
252Z25	7.93	15.93	2.45	2.04	1.63	1.36	1.23	35.42	-	15.74	15.7	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m2					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SLEEVE SYST EM</b>												
<b>Span 7.00 M</b>												
202Z20	5.23	8.05	1.15	0.96	0.77	0.64	0.58	13.29	-	7.93	7.93	-
202Z25	6.53	10.92	1.56	1.3	1.04	0.87	0.78	16.42	-	11.97	11.97	-
232Z17	5.47	8.12	1.16	0.96	0.77	0.64	0.58	18.73	-	8.07	8.07	-
232Z20	6.34	9.94	1.42	1.18	0.95	0.79	0.71	21.31	-	9.8	9.8	-
232Z25	7.93	13.86	1.98	1.65	1.32	1.1	0.99	26.3	-	13.7	13.7	-
252Z17	5.58	8.68	1.24	1.03	0.83	0.69	0.62	21.7	-	8.55	8.55	-
252Z20	6.34	10.57	1.51	1.26	1	0.84	0.76	24.67	-	10.48	10.48	-
252Z25	7.93	14.77	2.11	1.76	1.41	1.17	1.06	30.54	-	14.62	14.62	-
<b>Span 7.50 M</b>												
202Z20	5.23	7.5	1	0.83	0.67	0.56	0.5	11.58	-	7.4	7.4	-
202Z25	6.53	10.2	1.36	1.13	0.91	0.76	0.68	14.3	-	10.33	10.33	-
232Z17	5.47	7.57	1.01	0.84	0.67	0.56	0.5	16.3	-	7.53	7.53	-
232Z20	6.34	9.3	1.24	1.03	0.83	0.69	0.62	18.55	-	9.2	9.2	-
232Z25	7.93	12.9	1.72	1.43	1.15	0.96	0.86	22.9	-	12.75	12.75	-
252Z17	5.58	8.02	1.07	0.89	0.71	0.59	0.53	18.9	-	7.98	7.98	-
252Z20	6.34	9.9	1.32	1.1	0.88	0.73	0.66	21.5	-	9.75	9.75	-
252Z25	7.93	13.8	1.84	1.53	1.23	1.02	0.92	26.6	-	13.64	13.64	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m2					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SLEEVE SYSTEM</b>												
<b>Span 8.00 M</b>												
232Z20	6.34	8.64	1.08	0.9	0.72	0.6	0.54	16.3	-	8.55	8.55	-
232Z25	7.93	12.16	1.52	1.27	1.01	0.84	0.76	20.15	-	11.95	11.95	-
252Z20	6.34	9.28	1.16	0.97	0.77	0.64	0.58	18.88	-	9.17	9.17	-
252Z25	7.93	12.96	1.62	1.35	1.08	0.9	0.81	23.38	-	12.79	12.79	-
302Z17	6.8	9.6	1.2	1	0.8	0.67	0.61	29.58	-	9.4	9.4	-
302Z20	7.78	11.68	1.46	1.22	0.97	0.81	0.73	33.64	-	11.6	11.6	-
302Z25	9.73	16.64	2.08	1.73	1.39	1.16	1.04	41.72	-	16.33	16.33	-
302Z30	11.68	21.92	2.74	2.28	1.83	1.52	1.37	49.64	-	21.56	21.56	-
<b>Span 8.50 M</b>												
232Z25	7.93	11.39	1.34	1.12	0.89	0.74	0.67	17.85	-	11.1	11.1	-
252Z20	6.34	8.67	1.02	0.85	0.68	0.57	0.51	16.73	-	8.63	8.63	-
252Z25	7.93	12.16	1.43	1.19	0.95	0.79	0.72	20.71	-	12.04	12.04	-
302Z17	6.8	8.92	1.05	0.87	0.67	0.58	0.53	26.2	-	8.89	8.89	-
302Z20	7.78	11.05	1.3	1.08	0.87	0.72	0.65	29.8	-	10.92	10.92	-
302Z25	9.73	15.56	1.83	1.53	1.22	1.02	0.92	37	-	15.36	15.36	-
302Z30	11.68	20.66	2.43	2.03	1.62	1.35	1.22	44	-	20.3	20.3	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m2					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SLEEVE SYSTEM</b>												
<b>Span 9.00 M</b>												
232Z25	7.93	10.8	1.2	1	0.8	0.67	0.6	15.95	-	10.65	10.65	-
252Z25	7.93	11.52	1.28	1.07	0.85	0.71	0.64	18.45	-	11.35	11.35	-
302Z20	7.78	10.44	1.16	0.97	0.77	0.64	0.58	26.6	-	10.3	10.3	-
302Z25	9.73	14.67	1.63	1.36	1.09	0.91	0.82	33	-	14.5	14.5	-
302Z30	11.68	19.53	2.17	1.81	1.45	1.21	1.09	39.2	-	19.15	19.15	-
342Z20	8.73	12.96	1.44	1.2	0.96	0.8	0.72	35.2	-	12.8	12.8	-
342Z25	10.91	18.18	2.02	1.68	1.35	1.12	1.01	43.7	-	17.95	17.95	-
342Z30	13.1	23.94	2.66	2.22	1.77	1.48	1.33	52	-	23.6	23.6	-
<b>Span 9.50 M</b>												
252Z25	7.93	10.93	1.15	0.96	0.77	0.64	0.58	16.6	-	10.8	10.8	-
302Z20	7.78	9.88	1.04	0.87	0.69	0.58	0.52	23.85	-	9.75	9.75	-
302Z25	9.73	13.87	1.46	1.22	0.97	0.81	0.73	29.6	-	13.75	13.75	-
302Z30	11.68	18.43	1.94	1.62	1.3	1.08	0.97	35.2	-	18.15	18.15	-
342Z20	8.73	12.26	1.29	1.08	0.86	0.72	0.65	33.4	-	12.1	12.1	-
342Z25	10.91	17.2	1.81	1.51	1.21	1.00	0.91	41.4	-	17	17	-
342Z30	13.1	22.7	2.39	1.99	1.59	1.33	1.2	49.25	-	22.4	22.4	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m2					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SLEEVE SYSTEM</b>												
<b>Span 10.00 M</b>												
342Z20	8.73	11.7	1.17	0.98	0.78	0.65	0.59	31.7	-		11.5	11.5
342Z25	10.91	16.4	1.64	1.37	1.09	0.91	0.82	39.3	-	-	16.15	16.15
342Z30	13.1	21.6	2.16	1.8	1.44	1.2	1.08	46.8	-	-	21.25	21.25
<b>Span 10.50 M</b>												
342Z20	8.73	11.13	1.06	0.88	0.71	0.59	0.53	30.2	-	-	10.95	10.95
342Z25	10.91	15.54	1.48	1.23	0.99	0.82	0.74	37.45	-	-	15.35	15.35
342Z30	13.1	20.58	1.96	1.63	1.31	1.09	0.98	44.6	-	-	20.25	20.25
<b>Span 11.00 M</b>												
342Z25	10.91	14.63	1.33	1.11	0.89	0.74	0.67	35.8	-	-	14.65	14.65
342Z30	13.1	19.58	1.78	1.48	1.19	0.99	0.89	42.5	-	-	19.3	19.3

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m <sup>2</sup>					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>OVERLAP SYSTEM</b>												
<b>Span 5.00 M</b>												
172Z15	3.57	8.95	1.79	1.49	1.19	0.99	0.9	15.62	8.42	-	-	-
172Z17	4.18	11.15	2.23	1.86	1.49	1.24	1.12	17.5	10.17	-	-	-
172Z20	4.76	13.55	2.71	2.26	1.81	1.51	1.36	20.06	11.85	-	-	-
172Z25	5.95	18.9	3.78	3.15	2.52	2.1	1.89	24.45	15.5	-	-	-
202Z15	3.92	10.3	2.18	1.82	1.45	1.21	1.09	22.85	10.7	-	-	-
202Z17	4.62	14.2	2.72	2.27	1.81	1.51	1.36	26.3	12.87	-	-	-
202Z20	5.23	16.55	3.31	2.76	2.21	1.84	1.66	29.7	15.1	-	-	-
202Z25	6.53	22.85	4.57	3.81	3.05	2.54	2.29	36.1	19.15	-	-	-
<b>Span 5.50 M</b>												
172Z15	3.57	8.14	1.49	1.24	1.00	0.83	0.75	12.96	7.7	-	-	-
172Z17	4.18	10.17	1.85	1.54	1.23	1.03	0.92	14.7	9.24	-	-	-
172Z20	4.76	12.38	2.26	1.88	1.51	1.26	1.13	16.61	10.8	-	-	-
172Z25	5.95	16.94	3.08	2.57	2.05	1.71	1.54	20.27	13.95	-	-	-
202Z15	3.92	10.07	1.83	1.53	1.22	1.02	0.92	19.03	9.91	-	-	-
202Z17	4.62	12.37	2.25	1.88	1.5	1.25	1.12	21.8	11.69	-	-	-
202Z20	5.23	15.35	2.79	2.33	1.86	1.55	1.4	24.42	13.95	-	-	-
202Z25	6.53	21.4	3.89	3.24	2.59	2.16	1.95	29.76	17.65	-	-	-
<b>Span 6.00 M</b>												
202Z15	3.92	9	1.5	1.25	1	0.83	0.75	15.8	8.90	-	-	-
202Z17	4.62	11.28	1.88	1.57	1.25	1.04	0.94	18	10.69	-	-	-
202Z20	5.23	13.74	2.29	1.91	1.53	1.27	1.15	20.4	12.55	-	-	-
202Z25	6.53	19.02	3.17	2.64	2.11	1.76	1.59	24.9	16.05	-	-	-
232Z15	4.76	11.16	1.86	1.55	1.24	1.03	0.93	25.34	10.65	-	-	-
232Z17	5.47	13.98	2.33	1.94	1.55	1.29	1.17	28.75	13.48	-	-	-
232Z20	6.34	17	2.85	2.38	1.9	1.58	1.43	32.65	16.00	-	-	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m <sup>2</sup>					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>OVERLAP SYSTEM</b>												
<b>Span 6.0 M</b>												
232Z25	7.93	23.82	3.97	3.31	2.65	2.21	1.99	39.9	21.1	-	-	-
<b>Span 6.50 M</b>												
202Z15	3.92	8.39	1.29	1.08	0.86	0.72	0.65	13.46	-	8.24	-	-
202Z17	4.62	10.46	1.61	1.34	1.07	0.89	0.81	15.4	-	9.90	-	-
202Z20	5.23	12.74	1.96	1.63	1.31	1.09	0.98	17.36	-	11.60	-	-
202Z25	6.53	17.55	2.7	2.25	1.8	1.5	1.35	21.19	-	14.85	-	-
232Z15	4.76	10.34	1.59	1.33	1.06	0.88	0.8	21.5	-	9.85	-	-
232Z17	5.47	12.93	1.99	1.66	1.33	1.11	1	24.5	-	12.47	-	-
232Z20	6.34	15.86	2.44	2.03	1.63	1.36	1.22	28	-	14.90	-	-
232Z25	7.93	21.97	3.38	2.82	2.25	1.83	1.69	33.95	-	19.65	-	-
<b>Span 7.00 M</b>												
202Z15	3.92	7.74	1.12	0.93	0.75	0.62	0.56	11.62	-	7.70	-	-
202Z17	4.62	9.73	1.39	1.16	0.93	0.77	0.69	13.22	-	9.16	-	-
202Z20	5.23	11.76	1.68	1.4	1.12	0.93	0.84	14.9	-	10.70	-	-
202Z25	6.53	16.14	2.32	1.93	1.55	1.29	1.16	18.2	-	13.75	-	-
232Z15	4.76	9.59	1.37	1.14	0.91	0.76	0.69	18.44	-	9.10	-	-
232Z17	5.47	11.97	1.71	1.42	1.14	0.95	0.85	21.05	-	11.51	-	-
232Z20	6.34	14.63	2.09	1.74	1.39	1.16	1.05	23.65	-	18.70	-	-
232Z25	7.93	20.37	2.91	2.43	1.94	1.62	1.46	29.3	-	18.00	-	-
252Z15	4.76	10.08	1.44	1.2	0.96	0.8	0.72	21.56	-	9.65	-	-
252Z17	5.58	12.67	1.81	1.51	1.21	1	0.91	24.68	-	12.56	-	-
252Z20	6.34	15.54	2.22	1.85	1.48	1.23	1.11	27.1	-	15.2	-	-
252Z25	7.93	21.75	3.1	2.58	2.07	1.72	1.55	33.5	-	19.6	-	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m <sup>2</sup>					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>OVERLAP SYSTEM</b>												
<b>Span 7.50M</b>												
202Z17	4.62	9.07	1.21	1	0.8	0.67	0.61	11.77	-	8.54	-	-
202Z20	5.23	11.18	1.49	1.24	0.99	0.83	0.75	13.35	-	10.05	-	-
202Z25	6.53	15	2	1.67	1.33	1.11	1	16.35	-	12.85	-	-
232Z17	5.47	11.17	1.49	1.24	0.99	0.83	0.75	18.95	-	10.78	-	-
232Z20	6.34	13.73	1.83	1.53	1.22	1.02	0.92	21.35	-	12.85	-	-
232Z25	7.93	19.05	2.54	2.12	1.69	1.41	1.27	26.1	-	16.9	-	-
252Z17	5.58	11.92	1.59	1.32	1.06	0.88	0.8	21.95	-	11.74	-	-
252Z20	6.34	14.55	1.94	1.62	1.291	1.08	0.97	24.83	-	14.15	-	-
252Z25	7.93	20.33	2.71	2.26	1.81	1.51	1.36	30.3	-	18.25	-	-
<b>Span 8.00 M</b>												
202Z17	4.62	8.4	1.05	0.87	0.7	0.58	0.52	10.25	-	-	8.00	-
202Z20	5.23	10.24	1.28	1.07	0.85	0.71	0.64	11.6	-	-	9.35	-
202Z25	6.53	14.16	1.77	1.48	1.18	0.98	0.89	14.32	-	-	12.10	-
232Z17	5.47	10.4	1.3	1.08	0.87	0.72	0.65	16.55	-	-	10.60	-
232Z20	6.34	12.8	1.6	1.33	1.07	0.89	0.8	18.7	-	-	12.95	-
232Z25	7.93	17.76	2.22	1.85	1.48	1.23	1.11	23.1	-	-	17.00	-
252Z17	5.58	11.12	1.39	1.16	0.93	0.77	0.7	19.1	-	-	11.20	-
252Z20	6.34	13.604	1.7	1.42	1.13	0.94	0.85	21.76	-	-	13.25	-
252Z25	7.93	18.96	2.37	1.98	1.58	1.32	1.19	26.72	-	-	17.05	-



Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m2					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>OVERLAP SYSTEM</b>												
<b>Span 8.50 M</b>												
202Z20	5.23	9.61	1.13	0.94	0.75	0.63	0.57	10.37	-	-	8.85	-
202Z25	6.53	13.35	1.57	1.31	1.05	0.87	0.79	12.58			11.4	-
232Z15	4.76	7.91	0.93	0.78	0.61	0.52	0.47	12.75	-	-	7.95	-
232Z17	5.47	9.86	1.16	0.97	0.77	0.64	0.58	14.6	-	-	9.99	-
232Z20	6.34	12.07	1.42	1.18	0.95	0.79	0.71	16.6	-	-	11.8	-
232Z25	7.93	16.75	1.97	1.64	1.31	1.09	0.99	20.3	-	-	15.15	-
252Z15	4.76	8.42	0.99	0.83	0.66	0.55	0.5	14.71	-	-	8.4	-
252Z17	5.58	10.45	1.23	1.03	0.82	0.68	0.62	16.9	-	-	10.34	-
252Z20	6.34	13	1.53	1.28	1.02	0.85	0.77	19.21			12.5	-
252Z25	7.93	17.85	2.1	1.75	1.4	1.17	1.05	23.46	-	-	16.05	-
302Z17	6.8	13.17	1.55	1.29	1.03	0.86	0.77	30.65	-	-	13.31	-
302Z20	7.78	16.15	1.9	1.58	1.27	1.06	0.95	34.8	-	-	16.50	-
302Z25	9.73	22.78	2.68	2.23	1.79	1.49	1.34	42.4	-	-	23.20	-
302Z30	11.68	30.09	3.54	2.95	2.36	1.97	1.77	51.8	-	-	30.70	
<b>Span 9.0M</b>												
202Z25	6.53	12.6	1.4	1.17	0.93	0.78	0.7	11.7	-	-	10.65	-
232Z15	4.76	7.38	0.82	0.68	0.55	0.46	0.41	11.4	-	-	7.40	-
232Z17	5.47	9.27	1.03	0.86	0.69	0.57	0.51	13	-	-	8.95	-
232Z20	6.34	11.34	1.26	1.05	0.84	0.7	0.63	14.8	-	-	10.65	-
232Z25	7.93	15.75	1.75	1.46	1.17	0.97	0.88	18.1	-	-	14.00	-
252Z17	5.58	9.81	1.09	0.91	0.73	0.6	0.55	15.05	-	-	9.75	-
252Z20	6.34	12.06	1.34	1.12	0.89	0.74	0.67	17.15	-	-	11.90	-
252Z25	7.93	16.83	1.87	1.56	1.25	1.04	0.94	20.95	-	-	15.15	-

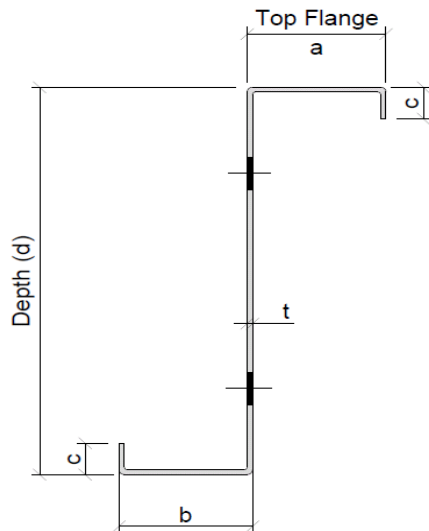
Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m2					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>OVERLAP SYSTEM</b>												
Span 9.0 M												
302Z20	7.78	15.21	1.69	1.41	1.13	0.94	0.85	31.05	-	-	15.5	-
302Z25	9.73	21.42	2.38	1.98	1.59	1.32	1.19	37.8	-	-	21.9	-
302Z30	11.68	28.35	3.15	2.63	2.1	1.75	1.58	45	-	-	27.55	-
342Z20	8.73	18.9	2.1	1.75	1.4	1.17	1.05	44	-	-	19.2	-
342Z25	10.91	26.55	2.95	2.46	1.97	1.64	1.48	54.6	-	-	27	-
342Z30	13.1	34.92	3.88	3.23	2.59	2.16	1.94	65	-	-	35.5	-
Span 9.50 m												
232Z20	6.34	10.74	1.13	0.94	0.75	0.63	0.57	13.6	-	-	10.2	-
232Z25	7.93	15.01	1.58	1.32	1.05	0.88	0.79	16.8	-	-	13.35	-
252Z17	5.58	9.4	0.99	0.83	0.66	0.55	0.5	13.88	-	-	9.23	-
252Z20	6.34	11.4	1.2	1	0.8	0.67	0.6	15.65	-	-	11.2	-
252Z25	7.93	16.15	1.7	1.42	1.13	0.94	0.85	19.5	-	-	14.4	-
302Z17	6.8	11.78	1.24	1.03	0.83	0.69	0.62	24.05	-	-	11.88	-
302Z20	7.78	14.44	1.52	1.27	1.01	0.84	0.76	27.85	-	-	14.7	-
302Z25	9.73	20.33	2.14	1.78	1.43	1.19	1.07	34.65	-	-	20.5	-
302Z30	11.68	26.89	2.83	2.36	1.89	1.57	1.42	41.8	-	-	24.65	-
342Z20	8.73	17.36	1.89	1.58	1.26	1.05	0.95	41.35	-	-	18.25	-
342Z25	10.91	25.18	2.65	2.21	1.77	1.47	1.33	51.3	-	-	25.6	-
342Z30	13.1	33.25	3.5	2.92	2.33	1.94	1.75	61.2	-	-	33.7	-
Span 10.00 M												
232Z20	6.34	10.2	1.02	0.85	0.68	0.57	0.51	12	-	-	9.6	-
232Z25	7.93	14.2	1.42	1.18	0.95	0.79	0.71	15.1	-	-	12.6	-
252Z20	6.34	10.8	1.08	0.9	0.72	0.6	0.54	14.2	-	-	10.6	-
252Z25	7.93	15.1	1.51	1.26	1.01	0.84	0.76	17.5	-	-	13.8	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m <sup>2</sup>					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>OVERLAP SYSTEM</b>												
<b>Span 10.00 M</b>												
302Z17	6.8	11.2	1.12	0.93	0.75	0.62	0.56	21.45	-	-	11.24	-
302Z20	7.78	13.7	1.37	1.14	0.91	0.76	0.69	25.00	-	-	13.85	-
302Z25	9.73	19.3	1.93	1.61	1.29	1.07	0.97	31.50	-	-	18.55	-
302Z30	11.68	25.5	2.55	2.13	1.7	1.42	1.28	37.50	-	-	23.35	-
342Z20	8.73	17	1.7	1.42	1.13	0.94	0.85	37.00	-	-	17.3	-
342Z25	10.91	23.9	2.39	1.99	1.59	1.33	1.2	46.00	-	-	24.2	-
342Z30	13.1	31.5	3.15	2.63	2.1	1.75	1.58	55.00	-	-	31.9	-
<b>Span 10.5 M</b>												
342Z20	8.73	15.75	1.5	1.25	1	0.83	0.75	33.50	-	-	16.5	-
342Z25	10.91	22.8	2.17	1.81	1.45	1.21	1.09	42.00	-	-	23.1	-
342Z30	13.1	30	2.86	2.38	1.91	1.59	1.43	49.90	-	-	29.9	-
<b>Span 11.0 M</b>												
342Z20	8.73	15.5	1.41	1.18	0.94	0.78	0.71	30.60	-	-	15.7	-
342Z25	10.91	21.67	1.97	1.64	1.31	1.09	0.99	38.00	-	-	22	-
342Z30	13.1	28.6	2.6	2.17	1.73	1.44	1.3	45.10	-	-	27	-

## Z-PURLINS: GRADE G450

<b>Cold Formed Profile</b>	<b>Z Section</b>
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PRODUCT & MATERIAL SPECIFICATIONS	
<b>MATERIAL</b>	AS 1397-2001, G450
<b>COATING /FINISH</b>	G90 (275 grams/m2 Zinc Coating)
<b>MINIMUM SPECIFIED YIELD STRENGTH FY</b>	450 N/mm <sup>2</sup>
<b>MATERIAL THICKNESS</b>	1.5 mm ,1,75 mm, 2.0 mm, 2.5 mm, 3.0 mm
<b>DEPTHS (D)</b>	122 mm to 342 mm
<b>NOTES</b>	a) Design of Purlins is based on AISI- 2012 (ASD-Allowable Stress Design Method)
	b) Sag rods are located at equal spacing



## Z-PURLINS: GRADE G450

Section	General Properties						Section Properties						
	Weight Kg/m	d (mm)	t (mm)	a (mm)	b (mm)	c (mm)	Ix defl cm4	Sxe(t) cm3	Sxebcm3	Rx cm	Iy cm4	Sy cm3	Ry cm
122Z15	2.92	122	1.5	55	50	17	88.5	12.41	12.57	4.86	29.92	4.61	2.83
142Z15	3.21	142	1.5	55	50	20	128.9	15.95	16.31	5.59	33.65	5.01	2.85
142Z17	3.77	142	1.75	55	50	20	149.3	19.47	20.30	5.57	38.87	5.8	2.84
142Z20	4.29	142	2	55	50	20	169.3	23.41	23.31	5.56	43.99	6.58	2.83
142Z25	5.36	142	2.5	55	50	20	208.6	29.92	28.87	5.54	53.91	8.09	2.82
172Z15	3.57	172	1.5	60	55	15	205.0	19.86	19.85	6.69	34.5	5.02	2.74
172Z17	4.18	172	1.75	60	55	15	237.6	23.70	23.96	6.67	39.87	5.81	2.73
172Z20	4.74	172	2	60	55	15	269.9	28.07	28.43	6.66	45.11	6.59	2.73
172Z25	5.93	172	2.5	60	55	15	333.0	36.86	36.31	6.64	55.3	8.11	2.71
202Z15	3.92	202	1.5	60	55	16	301.7	24.26	23.83	7.72	35.86	5.16	2.66
202Z17	4.62	202	1.75	60	55	16	350.0	30.00	30.44	7.71	41.44	5.97	2.65
202Z20	5.23	202	2	60	55	16	397.7	35.55	36.10	7.70	46.91	6.77	2.64
202Z25	6.53	202	2.5	60	55	16	491.4	46.43	46.17	7.60	57.51	8.33	2.62
232Z15	4.76	232	1.5	75	70	17	482.6	28.75	28.53	9.00	66.04	7.75	3.31
232Z17	5.47	232	1.8	75	70	17	565.4	36.91	36.48	8.96	76.4	8.99	3.31
232Z20	6.04	232	2	75	70	17	637.3	45.63	45.61	8.95	86.68	10.21	3.30
232Z25	7.55	232	2.5	75	70	17	789.0	59.64	60.11	8.93	106.66	12.6	3.28
252Z15	4.76	252	1.5	70	65	16	558.9	30.53	30.27	9.56	53.41	6.71	2.96
252Z17	5.58	252	1.75	70	65	16	649.0	39.21	38.71	9.55	61.79	7.78	2.95
252Z20	6.34	252	2	70	65	16	738.1	49.20	48.62	9.54	70.02	8.83	2.94
252Z25	7.93	252	2.5	70	65	16	913.9	65.73	66.34	9.51	86.06	10.88	2.92
302Z17	6.8	302	1.75	90	82	16	1155.2	45.89	45.80	11.54	115.43	11.68	3.65
302Z20	7.76	302	2	90	82	16	1315.1	57.47	57.16	11.53	131.01	13.27	3.64
302Z25	9.71	302	2.5	90	82	16	1631.2	85.36	84.20	11.50	161.53	16.40	3.62
302Z30	11.67	302	3	90	82	16	1942.3	109.39	110.66	11.48	191.18	19.47	3.60
342Z20	8.76	342	2	100	92	20	1932.0	68.87	68.74	13.10	193.2	17.32	4.14
342Z25	10.87	342	2.5	100	92	20	2387.7	100.43	99.63	13.67	238.6	21.44	4.12
342Z30	13.13	342	3	100	92	20	2845.7	138.57	137.68	13.04	282.87	25.47	4.10

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m2					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SIMPLE SPAN</b>												
<b>SPAN 3.50 M</b>												
122Z15	2.92	5.95	1.70	1.42	1.13	0.94	0.85	6.16	5.42	6.06	-	-
142Z15	3.21	7.35	2.10	1.75	1.40	1.17	1.05	8.96	7.03	7.44	-	-
142Z17	3.77	9.10	2.60	2.17	1.73	1.44	1.30	10.4	8.80	9.27	-	-
142Z20	4.29	11.03	3.15	2.63	2.10	1.75	1.58	11.80	10.11	11.16	-	-
142Z25	5.36	15.05	4.30	3.58	2.87	2.39	2.15	14.53	12.45	15.14	-	-
<b>Span 4.00 M</b>												
122Z15	2.92	5.20	1.30	1.08	0.87	0.72	<b>0.65</b>	4.72	4.74	5.30	-	-
142Z15	3.21	6.44	1.61	1.34	1.07	0.89	0.81	6.88	6.15	6.51	-	-
142Z17	3.77	8.00	2.00	1.67	1.33	1.11	1.00	7.99	7.70	8.10	-	-
142Z20	4.29	9.64	2.41	2.01	1.61	1.34	1.21	9.00	8.84	9.75	-	-
142Z25	5.36	13.16	3.29	2.74	2.19	1.83	1.65	11.08	10.89	13.28	-	-
172Z15	3.57	7.52	1.88	1.57	1.25	1.04	0.94	10.85	6.96	7.65	-	-
172Z17	4.18	9.44	2.36	1.97	1.57	1.31	1.18	12.63	8.40	9.63	-	-
172Z20	4.76	11.48	2.87	2.39	1.91	1.59	1.44	14.36	9.97	11.69	-	-
172Z25	5.95	15.92	3.98	3.32	2.65	2.21	1.99	17.74	12.72	16.16	-	-
<b>Span 4.50 M</b>												
142Z15	3.21	5.72	1.27	1.06	0.85	0.71	0.64	5.40	5.47	5.79	-	-
142Z17	3.77	7.16	1.59	1.33	1.06	0.88	0.79	6.44	6.84	7.19	-	-
142Z20	4.29	8.60	1.91	1.59	1.27	1.06	0.96	7.20	7.86	8.68	-	-
142Z25	5.36	11.70	2.60	2.17	1.73	1.44	1.30	8.78	9.69	11.11	-	-
172Z15	3.57	6.71	1.49	1.24	0.99	0.83	0.75	8.61	6.18	6.80	-	-
172Z17	4.18	8.37	1.86	1.55	1.24	1.03	0.93	10.05	7.47	8.47	-	-
172Z20	4.76	10.22	2.27	1.89	1.51	1.26	1.14	11.31	8.86	10.39	-	-
172Z25	5.95	14.13	3.14	2.62	2.09	1.74	1.57	14.07	11.32	14.35	-	-
202Z15	3.92	8.10	1.80	1.50	1.20	1.00	0.90	12.78	7.42	8.22	-	-
202Z17	4.62	10.26	2.28	1.90	1.52	1.27	1.14	14.72	9.48	10.35	-	-
202Z20	5.23	12.47	2.77	2.31	1.85	1.54	1.39	16.65	11.24	12.60	-	-
202Z25	6.53	17.33	3.85	3.21	2.57	2.14	1.93	20.75	14.37	17.50	-	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m <sup>2</sup>					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SIMPLE SPAN</b>												
<b>Span 5.00 M</b>												
172Z15	3.57	6.00	1.20	1.00	0.80	0.67	0.60	6.97	-	6.11	6.11	-
172Z17	4.18	7.60	1.52	1.27	1.01	0.84	0.76	8.07	-	7.70	7.70	-
172Z20	4.76	9.20	1.84	1.53	1.23	1.02	0.92	9.19	-	9.12	9.34	-
172Z25	5.95	12.75	2.55	2.13	1.70	1.42	1.28	11.35	10.17	11.78	12.94	-
202Z15	3.92	7.35	1.47	1.23	0.98	0.82	0.74	10.35	6.68	7.40	7.40	-
202Z17	4.62	9.25	1.85	1.54	1.27	1.03	0.92	12.03	8.50	9.26	9.26	-
202Z20	5.23	11.25	2.25	1.88	1.50	1.25	1.13	13.55	10.11	11.35	11.35	-
202Z25	6.53	15.60	3.12	2.60	2.08	1.73	1.56	16.80	12.94	14.85	15.78	-
232Z15	4.76	9.00	1.80	1.50	1.20	1.00	0.90	16.48	6.15	9.11	9.11	-
232Z17	5.47	11.40	2.28	1.90	1.52	1.27	1.14	19.17	7.93	11.46	11.46	-
232Z20	6.34	13.85	2.77	2.31	1.85	1.54	1.39	21.80	9.84	14.04	14.04	-
232Z25	7.93	19.35	3.87	3.23	2.58	2.15	1.94	26.86	12.95	19.62	19.62	-
<b>Span 5.50 M</b>												
172Z25	5.95	11.55	2.10	1.75	1.40	1.17	1.05	9.35	-	9.57	11.14	-
202Z15	3.92	6.66	1.21	1.01	0.81	0.67	0.61	8.47	-	6.72	6.72	-
202Z17	4.62	8.42	1.53	1.27	1.02	0.85	0.77	9.91	7.80	8.18	8.45	-
202Z20	5.23	10.23	1.86	1.55	1.24	1.03	0.93	11.22	9.20	9.66	10.32	-
202Z25	6.53	14.19	2.58	2.15	1.72	1.43	1.29	13.92	11.76	12.05	14.11	-
232Z15	4.76	8.20	1.49	1.24	0.99	0.83	0.75	13.60	-	8.28	8.28	-
232Z17	5.47	10.40	1.89	1.58	1.26	1.05	0.94	15.8	7.27	10.48	10.48	-
232Z20	6.34	12.60	2.29	1.91	1.53	1.27	1.15	17.96	8.94	12.77	12.77	-
232Z25	7.93	17.60	3.20	2.67	2.13	1.78	1.60	22.26	11.78	17.83	17.83	-
252Z15	4.76	8.64	1.57	1.31	1.05	0.87	0.79	15.79	-	8.73	8.73	-
252Z17	5.58	11.00	2.0	1.67	1.33	1.11	1.00	18.37	7.70	11.08	11.08	-
252Z20	6.34	13.42	2.44	2.03	1.63	1.36	1.22	20.85	9.52	13.54	13.54	-
252Z25	7.93	18.81	3.42	2.85	2.28	1.90	1.71	25.69	13.00	19.05	19.05	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m <sup>2</sup>					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SIMPLE SPAN</b>												
<b>Span 6.00 M</b>												
202Z17	4.62	7.68	1.28	1.07	0.85	0.71	0.64	8.41	-	7.08	7.77	-
202Z20	5.23	9.36	1.56	1.30	1.04	0.87	0.78	9.54	-	8.42	9.39	-
202Z25	6.53	13.02	2.17	1.81	1.45	1.21	1.09	11.82	-	10.78	11.79	-
232Z15	4.76	7.50	1.25	1.04	0.83	0.69	0.63	11.58	-	7.59	7.59	-
232Z17	5.44	9.54	1.59	1.33	1.06	0.88	0.79	13.38	-	9.60	9.60	-
232Z20	6.34	11.58	1.93	1.61	1.29	1.07	0.97	15.30	-	11.70	11.70	-
232Z25	7.93	16.14	2.69	2.24	1.79	1.49	1.35	19.00	-	16.35	16.35	-
252Z15	4.76	7.92	1.32	1.10	0.88	0.73	0.66	13.30	-	8.00	8.00	-
252Z17	5.58	10.02	1.67	1.39	1.11	0.93	0.84	15.6	-	10.15	10.15	-
252Z20	6.34	12.30	2.05	1.71	1.37	1.14	1.03	17.70	-	12.40	12.40	-
252Z25	7.93	17.22	2.87	2.39	1.91	1.59	1.44	21.90	-	16.63	17.43	-
<b>Span 6.50 M</b>												
202Z20	5.23	8.65	1.33	1.11	0.89	0.74	0.67	8.00	-	7.80	7.87	-
202Z25	6.53	12.03	1.85	1.54	1.23	1.03	0.93	10.00	-	9.93	9.95	-
232Z15	4.76	6.96	1.07	0.89	0.71	0.59	0.54	9.91	-	7.01	7.01	-
232Z17	5.47	8.71	1.34	1.12	0.89	0.74	0.67	11.5	-	8.86	8.86	-
232Z20	6.34	10.66	1.64	1.37	1.09	0.91	0.82	13.06	-	10.80	10.80	-
232Z25	7.93	14.89	2.29	1.91	1.53	1.27	1.15	16.18	-	14.23	15.09	-
252Z17	5.58	9.29	1.43	1.19	0.95	0.79	0.71	13.32	-	9.27	9.27	-
252Z20	6.34	11.31	1.74	1.45	1.16	0.97	0.87	15.14	-	10.85	11.45	-
252Z25	7.93	15.93	2.45	2.04	1.63	1.36	1.23	18.72	-	13.93	16.08	-



Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m2					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SIMPLE SPAN</b>												
<b>Span 7.00 M</b>												
202Z25	6.53	11.13	1.59	1.33	1.06	0.88	0.80	8.61	-	9.25	9.25	-
232Z17	5.47	9.12	1.16	0.97	0.77	0.64	0.58	9.88	-	7.84	8.21	-
232Z20	6.34	9.87	1.41	1.18	0.94	0.78	0.71	11.27	-	9.38	10.03	-
232Z25	7.93	13.86	1.98	1.65	1.32	1.10	0.99	13.93	-	12.02	14.01	-
252Z17	5.58	8.61	1.23	1.03	0.82	0.68	0.61	11.45	-	7.60	8.70	-
252Z20	6.34	10.57	1.51	1.26	1.01	0.84	0.76	13.02	-	8.89	10.64	-
252Z25	7.93	14.77	2.11	1.76	1.41	1.17	1.06	16.15	-	11.50	14.05	-
<b>Span 7.50 M</b>												
202Z25	6.53	10.35	1.38	1.15	0.92	0.77	0.69	7.43	-	8.62	8.62	-
232Z20	6.34	9.23	1.23	1.03	0.82	0.68	0.62	9.8	-	7.84	9.35	-
232Z25	7.93	12.90	1.72	1.43	1.15	0.96	0.86	12.15	-	10.12	12.30	-
252Z20	6.34	9.83	1.31	1.09	0.87	0.73	0.66	11.35	-	7.4	9.45	-
252Z25	7.93	13.80	1.84	1.53	1.23	1.02	0.92	13.8	-	9.53	12.05	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m2					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SIMPLE SPAN</b>												
<b>Span 8.00 M</b>												
202Z25	6.53	9.76	1.22	1.02	0.81	0.68	0.61	8.62	-	8.09	8.09	-
232Z25	7.93	12.08	1.51	1.26	1.01	0.84	0.76	10.64	-	8.58	10.62	-
252Z25	7.93	12.96	1.62	1.35	1.08	0.90	0.81	12.32	-	8.93	10.18	-
302Z20	7.78	11.60	1.45	1.21	0.97	0.81	0.73	17.70	-	11.39	11.77	-
302Z25	9.73	16.32	2.04	1.70	1.36	1.13	1.02	22.08	-	15.24	16.66	-
302Z30	11.68	21.68	2.71	2.26	1.81	1.51	1.36	26.06	-	18.72	22.13	-
<b>Span 8.50 M</b>												
232Z25	7.93	11.39	1.34	1.12	0.89	0.74	0.67	9.43	-	7.63	9.11	-
252Z25	7.93	12.16	1.43	1.19	0.95	0.79	0.72	10.96	-	8.41	8.52	-
302Z20	7.78	10.88	1.28	1.07	0.85	0.71	0.64	15.76	-	9.82	11.08	-
302Z25	9.73	15.39	1.81	1.51	1.21	1.01	0.91	19.55	-	13.07	15.69	-
302Z30	11.68	20.40	2.40	2.00	1.60	1.33	1.20	23.29	-	15.83	19.86	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m <sup>2</sup>					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SIMPLE SPAN</b>												
<b>Span 9.00 M</b>												
302Z20	7.78	10.26	1.14	0.95	0.76	0.63	0.57	14	-	8.49	10.38	10.47
302Z25	9.73	14.58	1.62	1.35	1.08	0.90	0.81	17.45	-	11.1	14.04	14.85
302Z30	11.68	19.26	2.14	1.78	1.43	1.19	1.07	20.7	-	13.6	17.30	19.70
342Z20	8.73	12.78	1.42	1.18	0.95	0.79	0.71	20.5	-	12.3	12.95	12.95
342Z25	10.91	18.00	2.00	1.67	1.33	1.11	1.00	25.4	-	17.5	18.25	18.25
342Z30	13.1	23.76	2.64	2.20	1.76	1.47	1.32	30.4	-	22.0	24.15	24.15
<b>Span 9.50 M</b>												
252Z25	7.93	10.93	1.15	0.96	0.77	0.64	0.58	8.75	-	7.52	7.52	10.77
302Z20	7.78	9.79	1.03	0.86	0.69	0.57	0.52	12.55	-	7.42	9.26	9.92
302Z25	9.73	13.78	1.45	1.21	0.97	0.81	0.73	15.5	-	9.60	12.30	14.03
302Z30	11.68	18.24	1.92	1.60	1.28	1.07	0.96	18.5	-	12.6	14.90	18.65
342Z20	8.73	12.07	1.27	1.06	0.85	0.71	0.64	18.3	-	11.0	12.26	12.26
342Z25	10.91	17.01	1.79	1.49	1.19	0.99	0.90	22.8	-	15.3	17.30	17.30
342Z30	13.1	23.76	2.64	2.20	1.76	1.47	1.32	27.40	-	22.0	24.14	24.14

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m <sup>2</sup>					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SIMPLE SPAN</b>												
<b>Span 10.00 M</b>												
342Z20	8.73	11.50	1.15	0.96	0.77	0.64	0.58	16.68	-	9.92	11.45	11.66
342Z25	10.91	16.20	1.62	1.35	1.08	0.90	0.81	20.70	-	13.46	16.42	16.42
342Z30	13.10	21.40	2.14	1.78	1.43	1.19	1.07	24.60	-	16.45	20.85	21.74
<b>Span 10.50 M</b>												
342Z20	8.73	10.92	1.04	0.87	0.69	0.58	0.52	15.01	-	8.92	10.44	11.10
342Z25	10.91	15.44	1.47	1.23	0.98	0.82	0.74	18.70	-	11.81	14.77	15.64
342Z30	13.10	20.37	1.94	1.62	1.29	1.08	0.97	22.36	-	14.41	18.49	20.70
<b>Span 11.00 M</b>												
342Z20	8.73	10.45	0.95	0.79	0.63	0.53	0.48	13.75	-	7.93	9.50	10.59
342Z25	10.91	14.74	1.34	1.12	0.89	0.74	0.67	16.27	-	10.38	13.17	14.92
342Z30	13.10	19.47	1.77	1.48	1.18	0.98	0.89	19.42	-	13.48	16.25	19.76

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m2					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SLEEVE SYSTEM</b>												
<b>Span 3.50 M</b>												
122Z15	2.92	7.07	2.02	1.68	1.35	1.12	1.01	11.83	6.96	-	-	-
142Z15	3.21	8.68	2.48	2.07	1.65	1.38	1.24	17.23	8.59	-	-	-
142Z17	3.77	10.81	3.09	2.58	2.06	1.72	1.55	19.96	10.83	-	-	-
142Z20	4.29	13.02	3.72	3.10	2.48	2.07	1.86	22.63	12.89	-	-	-
142Z25	5.36	17.75	5.07	4.23	3.38	2.82	2.54	27.88	17.54	-	-	-
<b>Span 4.00 M</b>												
122Z15	2.92	6.20	1.55	1.29	1.03	0.86	0.78	9.06	6.08	-	-	-
142Z15	3.21	7.60	1.90	1.58	1.27	1.06	0.95	13.19	7.52	-	-	-
142Z17	3.77	9.60	2.40	2.00	1.60	1.33	1.20	15.28	9.48	-	-	-
142Z20	4.29	11.40	2.85	2.38	1.90	1.58	1.43	17.33	11.27	-	-	-
142Z25	5.36	15.52	3.88	3.23	2.59	2.16	1.94	21.35	15.35	-	-	-
172Z15	3.57	8.92	2.23	1.86	1.49	1.24	1.12	20.97	8.78	-	-	-
172Z17	4.18	11.24	2.81	2.34	1.87	1.56	1.41	24.31	11.16	-	-	-
172Z20	4.76	13.64	3.41	2.84	2.27	1.89	1.71	27.59	13.41	-	-	-
172Z25	5.95	18.88	4.72	3.93	3.15	2.62	2.36	34.04	18.56	-	-	-
<b>Span 4.50 M</b>												
142Z15	3.21	6.75	1.50	1.25	1.00	0.83	0.75	10.42	6.68	6.68	-	-
142Z17	3.77	8.42	1.87	1.56	1.25	1.04	0.94	12.08	8.43	8.43	-	-
142Z20	4.29	10.13	2.25	1.88	1.50	1.25	1.13	13.69	10.02	10.02	-	-
142Z25	5.36	13.77	3.06	2.55	2.04	1.70	1.53	16.87	13.65	13.65	-	-
172Z15	3.57	7.92	1.76	1.47	1.17	0.98	0.88	16.57	7.81	7.81	-	-
172Z17	4.18	9.99	2.22	1.85	1.48	1.23	1.11	19.22	9.92	9.92	-	-
172Z20	4.76	12.11	2.69	2.24	1.79	1.49	1.35	21.80	11.92	11.92	-	-
172Z25	5.95	16.79	3.73	3.11	2.49	2.07	1.87	26.90	16.50	16.50	-	-
202Z15	3.92	9.59	2.13	1.78	1.42	1.18	1.07	24.40	9.50	9.50	-	-
202Z17	4.62	12.10	2.69	2.24	1.79	1.49	1.35	28.32	12.09	12.09	-	-
202Z20	5.23	14.72	3.27	2.73	2.18	1.82	1.64	32.16	14.56	14.56	-	-
202Z25	6.53	20.48	4.55	3.79	3.03	2.53	2.28	39.74	20.20	20.20	-	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m <sup>2</sup>					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SLEEVE SYSTEM</b>												
<b>Span 5.00 M</b>												
172Z15	3.57	7.15	1.43	1.19	0.95	0.79	0.72	13.42	7.03	7.03	-	-
172Z17	4.18	8.95	1.79	1.49	1.19	0.99	0.90	15.56	8.95	8.95	-	-
172Z20	4.76	10.90	2.18	1.82	1.45	1.21	1.09	17.66	10.73	10.73	-	-
172Z25	5.95	15.10	3.02	2.52	2.01	1.68	1.51	21.79	14.84	14.84	-	-
202Z15	3.92	8.65	1.73	1.44	1.15	0.96	0.87	19.76	8.55	8.55	-	-
202Z17	4.62	10.90	2.18	1.82	1.45	1.21	1.09	22.94	10.87	10.87	-	-
202Z20	5.23	13.25	2.65	2.21	1.77	1.47	1.33	26.05	13.09	13.09	-	-
202Z25	6.53	18.40	3.68	3.07	2.45	2.04	1.84	32.19	18.20	18.20	-	-
232Z15	4.76	10.65	2.13	1.78	1.42	1.18	1.07	31.61	10.51	10.51	-	-
232Z17	5.47	13.45	2.69	2.24	1.79	1.49	1.35	36.72	13.44	13.44	-	-
232Z20	6.34	16.40	3.28	2.73	2.19	1.82	1.64	41.73	16.18	16.18	-	-
232Z25	7.93	22.90	4.58	3.82	3.05	2.54	2.29	51.64	22.58	22.58	-	-
<b>Span 5.50 M</b>												
202Z15	3.92	7.87	1.43	1.19	0.95	0.79	0.72	16.33	7.77	7.77	-	-
202Z17	4.62	9.90	1.80	1.50	1.20	1.00	0.90	18.96	9.88	9.88	-	-
202Z20	5.23	12.05	2.19	1.83	1.46	1.22	1.10	21.53	11.91	11.91	-	-
202Z25	6.53	16.72	3.04	2.53	2.03	1.69	1.52	26.60	16.53	16.53	-	-
232Z15	4.76	9.68	1.76	1.47	1.17	0.98	0.88	26.13	9.55	9.55	-	-
232Z17	5.47	12.20	2.22	1.85	1.48	1.23	1.11	30.34	12.07	12.07	-	-
232Z20	6.34	14.91	2.71	2.26	1.81	1.51	1.36	34.48	14.70	14.70	-	-
232Z25	7.93	20.79	3.78	3.15	2.52	2.10	1.89	42.68	20.54	20.54	-	-
252Z15	4.76	10.07	1.83	1.53	1.22	1.02	0.92	30.25	10.11	10.11	-	-
252Z17	5.58	12.93	2.35	1.96	1.57	1.31	1.17	35.16	12.81	12.81	-	-
252Z20	6.34	15.79	2.87	2.39	1.91	1.59	1.44	39.96	15.64	15.64	-	-
252Z25	7.93	22.17	4.03	3.36	2.69	2.24	2.02	49.47	21.96	21.96	-	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m2					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SLEEVE SYSTEM</b>												
<b>Span 6.00 M</b>												
202Z15	3.92	7.20	1.20	1.00	0.80	0.67	0.60	13.72	-	7.12	7.12	-
202Z17	4.62	9.06	1.51	1.26	1.00	0.84	0.76	15.92	-	8.98	8.98	-
202Z20	5.23	11.04	1.84	1.53	1.23	1.02	0.92	18.09	-	10.91	10.91	-
202Z25	6.53	15.36	2.56	2.13	1.71	1.42	1.28	22.35	-	15.16	15.1	-
232Z15	4.76	8.88	1.48	1.23	0.99	0.82	0.74	21.94	-	8.76	8.76	-
232Z17	5.47	11.22	1.87	1.56	1.25	1.04	0.94	25.5	-	11.0	11.0	-
232Z20	6.34	13.68	2.28	1.90	1.52	1.27	1.14	28.97	-	13.48	13.4	-
232Z25	7.93	19.08	3.18	2.65	2.12	1.77	1.59	35.86	-	18.83	18.8	-
252Z15	4.76	9.36	1.56	1.30	1.04	0.87	0.78	25.42	-	9.26	9.26	-
252Z17	5.58	11.76	1.90	1.63	1.31	1.09	0.98	29.54	-	11.8	11.8	-
252Z20	6.34	14.46	2.41	2.01	1.61	1.34	1.21	33.57	-	14.34	14.3	-
252Z25	7.93	20.34	3.39	2.83	2.26	1.88	1.70	41.57	-	20.12	20.1	-
<b>Span 6.50 M</b>												
202Z17	4.62	8.32	1.28	1.07	0.85	0.71	0.64	13.58	-	8.29	8.29	-
202Z20	5.23	10.21	1.57	1.31	1.05	0.87	0.79	15.41	-	10.07	10.0	-
202Z25	6.53	14.17	2.18	1.82	1.45	1.21	1.09	19.05	-	13.99	13.9	-
232Z15	4.76	8.19	1.26	1.05	0.84	0.70	0.63	18.70	-	8.09	8.09	-
232Z17	5.47	10.27	1.58	1.32	1.05	0.87	0.79	21.73	-	10.20	10.2	-
232Z20	6.34	12.61	1.94	1.62	1.29	1.08	0.97	24.69	-	12.43	12.4	-
232Z25	7.93	17.62	2.71	2.26	1.81	1.51	1.36	30.56	-	17.36	17.3	-
252Z15	4.76	8.65	1.33	1.11	0.89	0.74	0.67	21.66	-	8.54	8.54	-
252Z17	5.58	10.92	1.68	1.40	1.12	0.93	0.64	25.17	-	10.8	10.8	-
252Z20	6.34	13.39	2.06	1.72	1.37	1.14	1.03	28.61	-	13.24	13.2	-
252Z25	7.93	18.79	2.89	2.41	1.93	1.61	1.45	35.42	-	18.58	18.5	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m2					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SLEEVE SYST EM</b>												
<b>Span 7.00 M</b>												
202Z20	5.23	9.45	1.35	1.13	0.90	0.75	0.68	13.29	-	9.35	9.35	-
202Z25	6.53	13.16	1.88	1.57	1.25	1.04	0.94	16.42	-	13.00	13.00	-
232Z17	5.47	9.59	1.37	1.14	0.91	0.76	0.69	18.73	-	9.46	9.46	-
232Z20	6.34	11.69	1.67	1.39	1.11	0.93	0.84	21.28	-	11.54	11.54	-
232Z25	7.93	16.38	2.34	1.95	1.56	1.30	1.17	26.35	-	16.13	16.13	-
252Z17	5.58	10.15	1.45	1.21	0.97	0.81	0.72	21.7	-	10.03	10.03	-
252Z20	6.34	12.39	1.77	1.48	1.18	0.98	0.89	24.67	-	12.30	12.30	-
252Z25	7.93	17.43	2.49	2.08	1.66	1.38	1.25	30.54	-	17.24	17.24	-
<b>Span 7.50 M</b>												
202Z20	5.23	8.85	1.18	0.98	0.79	0.66	0.59	11.58	-	8.73	8.73	-
202Z25	6.53	12.23	1.63	1.36	1.09	0.91	0.82	14.30	-	12.12	12.12	-
232Z17	5.47	8.93	1.19	0.99	0.79	0.66	0.59	16.3	-	8.84	8.84	-
232Z20	6.34	10.95	1.46	1.22	0.97	0.81	0.73	18.54	-	10.78	10.78	-
232Z25	7.93	15.23	2.03	1.69	1.35	1.13	1.02	22.95	-	15.06	15.06	-
252Z17	5.58	9.53	1.27	1.06	0.85	0.70	0.63	18.9	-	9.37	9.37	-
252Z20	6.34	11.55	1.54	1.28	1.03	0.86	0.77	21.49	-	11.48	11.48	-
252Z25	7.93	16.28	2.17	1.81	1.45	1.21	1.09	26.60	-	16.08	16.08	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m2					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SLEEVE SYSTEM</b>												
<b>Span 8.00 M</b>												
232Z20	6.34	10.24	1.28	1.07	0.85	0.71	0.64	16.30	-	10.12	10.12	-
232Z25	7.93	14.32	1.79	1.49	1.19	0.99	0.90	20.17	-	14.11	14.11	-
252Z20	6.34	10.88	1.36	1.13	0.91	0.76	0.68	18.88	-	10.76	10.76	-
252Z25	7.93	15.28	1.91	1.59	1.27	1.06	0.96	23.38	-	15.08	15.08	-
302Z17	6.8	11.20	1.40	1.17	0.93	0.78	0.70	29.58	-	11.02	11.02	-
302Z20	7.78	13.76	1.72	1.43	1.15	0.96	0.86	33.64	-	13.50	13.50	-
302Z25	9.73	19.44	2.43	2.03	1.62	1.35	1.22	41.72	-	19.08	19.08	-
302Z30	11.68	25.84	3.23	2.69	2.15	1.79	1.62	49.64	-	25.33	25.33	-
<b>Span 8.50 M</b>												
232Z25	7.93	13.43	1.58	1.32	1.05	0.88	0.79	17.87	-	13.29	13.29	-
252Z20	6.34	10.20	1.20	1.00	0.80	0.67	0.60	16.73	-	10.13	10.13	-
252Z25	7.93	14.37	1.69	1.41	1.13	0.94	0.85	20.71	-	14.20	14.20	-
302Z17	6.8	10.54	1.24	1.03	0.83	0.69	0.61	26.2	-	10.40	10.40	-
302Z20	7.78	12.92	1.52	1.27	1.01	0.84	0.76	29.80	-	12.71	12.71	-
302Z25	9.73	18.28	2.15	1.79	1.43	1.19	1.08	36.96	-	17.96	17.96	-
302Z30	11.68	24.31	2.86	2.38	1.91	1.59	1.43	43.98	-	23.84	23.84	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m <sup>2</sup>					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SLEEVE SYSTEM</b>												
<b>Span 9.00 M</b>												
232Z25	7.93	12.69	1.41	1.18	0.94	0.78	0.71	15.94	-	12.55	12.55	-
252Z25	7.93	13.50	1.50	1.25	1.00	0.83	0.75	18.47	-	13.41	13.41	-
302Z20	7.78	12.24	1.36	1.13	0.91	0.76	0.68	26.58	-	12.00	12.00	-
302Z25	9.73	17.28	1.92	1.60	1.28	1.07	0.96	32.96	-	16.96	16.96	-
302Z30	11.68	22.95	2.55	2.13	1.70	1.42	1.28	39.23	-	22.50	22.50	-
342Z20	8.73	15.12	1.68	1.40	1.12	0.93	0.84	35.23	-	14.91	14.91	-
342Z25	10.91	21.33	2.37	1.98	1.58	1.32	1.19	43.69	-	20.98	20.98	-
342Z30	13.10	28.17	3.13	2.61	2.09	1.74	1.57	51.98	-	27.76	27.76	-
<b>Span 9.50 M</b>												
252Z25	7.93	12.83	1.35	1.13	0.90	0.75	0.68	16.58	-	12.70	12.70	12.70
302Z20	7.78	11.59	1.22	1.02	0.81	0.68	0.61	23.85	-	11.37	11.37	11.37
302Z25	9.73	16.34	1.72	1.43	1.15	0.96	0.86	29.58	-	16.08	16.08	16.08
302Z30	11.68	21.76	2.29	1.91	1.53	1.27	1.15	35.20	-	21.33	21.33	21.33
342Z20	8.73	14.35	1.51	1.26	1.01	0.84	0.76	33.38	-	14.11	14.11	14.11
342Z25	10.91	20.14	2.12	1.77	1.41	1.18	1.06	41.39	-	19.88	19.88	19.88
342Z30	13.10	26.70	2.81	2.34	1.87	1.56	1.41	49.25	-	26.28	26.28	26.28

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m <sup>2</sup>					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>SLEEVE SYSTEM</b>												
<b>Span 10.00 M</b>												
342Z20	8.73	13.60	1.36	1.13	0.91	0.76	0.68	31.71	-	-	-	13.43
342Z25	10.91	19.20	1.92	1.60	1.28	1.07	0.96	39.32	-	-	-	18.89
342Z30	13.10	25.40	2.54	2.12	1.69	1.41	1.27	46.78	-	-	-	24.95
<b>Span 10.50 M</b>												
342Z20	8.73	12.92	1.23	1.03	0.82	0.68	0.62	30.20	-	-	-	12.77
342Z25	10.91	18.27	1.74	1.45	1.16	0.97	0.87	37.45	-	-	-	17.97
342Z30	13.10	24.15	2.3	1.92	1.53	1.28	1.15	44.56	-	-	-	22.97
<b>Span 11.00 M</b>												
342Z25	10.91	17.38	1.58	1.32	1.05	0.88	0.79	35.75	-	-	-	17.10
342Z30	13.10	22.99	2.09	1.74	1.39	1.16	1.05	42.53	-	-	-	22.70

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m <sup>2</sup>					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>OVERLAP SYSTEM</b>												
<b>Span 5.00 M</b>												
172Z15	3.57	10.70	2.14	1.78	1.43	1.19	1.07	15.62	10.65	-	-	-
172Z17	4.18	13.40	2.68	2.23	1.79	1.49	1.34	17.5	12.76	-	-	-
172Z20	4.76	16.35	3.27	2.73	2.18	1.82	1.64	20.06	15.17	-	-	-
172Z25	5.95	22.50	4.50	3.75	3.00	2.50	2.25	24.45	19.49	-	-	-
202Z15	3.92	13.00	2.60	2.17	1.73	1.44	1.30	22.90	12.78	-	-	-
202Z17	4.62	16.30	3.26	2.72	2.17	1.81	1.63	26.3	16.20	-	-	-
202Z20	5.23	19.65	3.93	3.28	2.62	2.18	1.97	29.70	19.37	-	-	-
202Z25	6.53	27.70	5.54	4.62	3.69	3.08	2.77	36.10	24.76	-	-	-
<b>Span 5.50 M</b>												
172Z15	3.57	9.74	1.77	1.48	1.18	0.98	0.89	12.96	9.65	-	-	-
172Z17	4.18	12.21	2.22	1.85	1.48	1.23	1.11	14.7	11.63	-	-	-
172Z20	4.76	14.91	2.71	2.26	1.81	1.51	1.36	16.61	13.90	-	-	-
172Z25	5.95	20.19	3.67	3.06	2.45	2.04	1.84	20.27	17.66	-	-	-
202Z15	3.92	11.88	2.16	1.80	1.44	1.20	1.08	19.03	11.65	-	-	-
202Z17	4.62	14.91	2.71	2.26	1.81	1.51	1.36	21.8	13.82	-	-	-
202Z20	5.23	18.21	3.31	2.76	2.21	1.84	1.66	24.42	17.64	-	-	-
202Z25	6.53	25.25	4.59	3.83	3.06	2.55	2.30	29.76	22.20	-	-	-
<b>Span 6.00 M</b>												
202Z15	3.92	10.80	1.80	1.50	1.20	1.00	0.90	15.78	10.62	-	-	-
202Z17	4.62	13.56	2.26	1.88	1.51	1.26	1.13	18.00	13.47	-	-	-
202Z20	5.23	16.56	2.76	2.30	1.84	1.53	1.38	20.40	16.08	-	-	-
202Z25	6.53	23.04	3.84	3.20	2.56	2.13	1.92	24.90	20.57	-	-	-
232Z15	4.76	13.32	2.22	1.85	1.48	1.23	1.11	25.34	12.64	-	-	-
232Z17	5.47	16.24	2.79	2.33	1.86	1.55	1.40	28.75	16.31	-	-	-
232Z20	6.34	20.46	3.41	2.84	2.27	1.89	1.71	32.67	20.33	-	-	-



Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m <sup>2</sup>					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>OVERLAP SYSTEM</b>												
<b>Span 6.0 M</b>												
232Z25	7.93	28.62	4.77	3.98	3.18	2.65	2.39	39.93	26.79	-	-	-
<b>Span 6.5 M</b>												
202Z15	3.92	9.95	1.53	1.28	1.02	0.85	0.77	13.46	-	9.82	-	-
202Z17	4.62	12.61	1.94	1.62	1.29	1.08	0.97	15.4	-	12.39	-	-
202Z20	5.23	15.34	2.36	1.97	1.57	1.31	1.18	17.36	-	14.81	-	-
202Z25	6.53	21.26	3.27	2.73	2.18	1.82	1.64	21.19	-	19.03	-	-
232Z15	4.76	12.29	1.89	1.58	1.26	1.05	0.95	21.50	-	11.77	-	-
232Z17	5.47	15.54	2.39	1.99	1.61	1.33	1.20	24.5	-	15.07	-	-
232Z20	6.34	18.98	2.92	2.43	1.95	1.62	1.46	27.93	-	18.70	-	-
232Z25	7.93	26.46	4.07	3.39	2.71	2.26	2.04	33.97	-	24.75	-	-
<b>Span 7.0 M</b>												
202Z15	3.92	9.17	1.31	1.09	0.87	0.73	0.66	11.62	-	9.03	-	-
202Z17	4.62	11.62	1.66	1.38	1.11	0.92	0.83	13.22	-	11.45	-	-
202Z20	5.23	14.14	2.02	1.68	1.35	1.12	1.01	14.91	-	13.76	-	-
202Z25	6.53	19.67	2.81	2.34	1.87	1.56	1.41	18.20	-	17.60	-	-
232Z15	4.76	11.41	1.63	1.36	1.09	0.91	0.82	18.40	-	10.88	-	-
232Z17	5.47	14.35	2.05	1.71	1.37	1.14	1.03	21.05	-	13.87	-	-
232Z20	6.34	17.50	2.50	2.08	1.67	1.39	1.25	23.66	-	17.38	-	-
232Z25	7.93	24.43	3.49	2.91	2.33	1.94	1.75	29.28	-	22.90	-	-
252Z15	4.76	12.04	1.72	1.43	1.15	0.96	0.86	21.56	-	11.48	-	-
252Z17	5.58	15.26	2.18	1.82	1.45	1.21	1.09	24.68	-	14.79	-	-
252Z20	6.34	18.62	2.66	2.22	1.77	1.48	1.33	27.10	-	18.52	-	-
252Z25	7.93	26.11	3.73	3.11	2.49	2.07	1.87	33.53	-	25.29	-	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m2					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>OVERLAP SYSTEM</b>												
<b>Span 7.50M</b>												
202Z17	4.62	10.88	1.45	1.21	0.97	0.89	0.73	11.77	-	10.78	-	-
202Z20	5.23	13.28	1.77	1.48	1.18	0.98	0.89	13.35	-	12.87	-	-
202Z25	6.53	18.38	2.45	2.04	1.63	1.36	1.23	16.35	-	16.47	-	-
232Z17	5.47	13.43	1.79	1.49	1.19	0.99	0.90	18.95	-	13.02	-	-
232Z20	6.34	16.35	2.18	1.82	1.45	1.21	1.09	21.36	-	16.18	-	-
232Z25	7.93	22.88	3.05	2.54	2.03	1.69	1.53	26.11	-	21.42	-	-
252Z17	5.58	14.25	1.90	1.58	1.27	1.06	0.95	21.95	-	13.82	-	-
252Z20	6.34	17.40	2.32	1.93	1.55	1.29	1.16	24.83	-	17.25	-	-
252Z25	7.93	24.45	3.26	2.72	2.17	1.81	1.63	30.30	-	23.66	-	-
<b>Span 8.00 M</b>												
202Z17	4.62	10.16	1.27	1.06	0.85	0.70	0.63	10.25	-	-	10.03	-
202Z20	5.23	12.32	1.54	1.28	1.03	0.86	0.77	11.60	-	-	12.01	-
202Z25	6.53	17.20	2.15	1.79	1.43	1.19	1.08	14.32	-	-	15.37	-
232Z17	5.47	12.48	1.56	1.30	1.04	0.87	0.78	16.55	-	-	12.09	-
232Z20	6.34	15.28	1.91	1.59	1.27	1.06	0.96	18.69	-	-	15.18	-
232Z25	7.93	21.36	2.67	2.23	1.78	1.48	1.34	23.11	-	-	20.00	-
252Z17	5.58	13.28	1.66	1.38	1.11	0.92	0.83	19.1	-	-	12.89	-
252Z20	6.34	16.24	2.03	1.69	1.35	1.13	1.02	21.76	-	-	16.19	-
252Z25	7.93	22.80	2.85	2.38	1.90	1.58	1.43	26.72	-	-	22.08	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m <sup>2</sup>					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>OVERLAP SYSTEM</b>												
<b>Span 8.50 M</b>												
202Z20	5.23	11.65	1.37	1.14	0.91	0.76	0.69	10.37	-	-	11.28	-
202Z25	6.53	16.24	1.91	1.59	1.27	1.06	0.96	12.58	-	-	14.50	-
232Z15	4.76	9.35	1.10	0.92	0.73	0.61	0.55	12.77	-	-	8.94	-
232Z17	5.47	11.82	1.39	1.16	0.93	0.77	0.70	14.6	-	-	11.40	-
232Z20	6.34	14.37	1.69	1.41	1.13	0.94	0.85	16.58	-	-	14.32	-
232Z25	7.93	20.15	2.37	1.98	1.58	1.32	1.19	20.30	-	-	18.87	-
252Z15	4.76	9.86	1.16	0.97	0.77	0.64	0.58	14.71	-	-	9.50	-
252Z17	5.58	12.50	1.47	1.23	0.98	0.82	0.74	16.9	-	-	12.16	-
252Z20	6.34	15.30	1.80	1.50	1.20	1.00	0.90	19.21	-	-	15.27	-
252Z25	7.93	21.51	2.53	2.11	1.69	1.41	1.27	23.46	-	-	20.72	-
302Z17	6.8	15.73	1.85	1.54	1.23	1.03	0.93	30.65	-	-	15.90	-
302Z20	7.78	19.30	2.27	1.89	1.51	1.26	1.14	34.82	-	-	19.61	-
302Z25	9.73	27.20	3.20	2.67	2.13	1.78	1.60	42.39	-	-	27.76	-
302Z30	11.68	36.13	4.25	3.54	2.83	2.36	2.13	51.85	-	-	35.14	-
<b>Span 9.0M</b>												
202Z25	6.53	14.40	1.60	1.33	1.07	0.89	0.80	11.70	-	-	13.64	-
232Z15	4.76	8.82	0.98	0.82	0.65	0.54	0.49	11.39	-	-	8.43	-
232Z17	5.47	11.07	1.23	1.03	0.82	0.68	0.62	13.00	-	-	10.79	-
232Z20	6.34	13.50	1.50	1.25	1.00	0.83	0.75	14.79	-	-	13.48	-
232Z25	7.93	18.90	2.10	1.75	1.40	1.17	1.05	18.10	-	-	17.75	-
252Z17	5.58	11.70	1.30	1.08	0.87	0.72	0.65	15.05	-	-	11.45	-
252Z20	6.34	14.40	1.60	1.33	1.07	0.89	0.80	17.13	-	-	14.30	-
252Z25	7.93	20.25	2.25	1.88	1.50	1.25	1.13	20.93	-	-	19.61	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m <sup>2</sup>					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>OVERLAP SYSTEM</b>												
<b>Span 9.0 M</b>												
302Z20	7.78	18.09	2.01	1.68	1.34	1.12	1.01	31.06	-	-	18.30	-
302Z25	9.73	25.56	2.84	2.37	1.89	1.58	1.42	37.81	-	-	24.86	-
302Z30	11.68	33.93	3.77	3.14	2.51	2.09	1.89	45.00	-	-	32.70	-
342Z20	8.73	22.50	2.50	2.08	1.67	1.39	1.25	44.04	-	-	22.80	-
342Z25	10.91	31.59	3.51	2.93	2.34	1.95	1.76	54.61	-	-	32.12	-
342Z30	13.10	41.85	4.65	3.88	3.10	2.58	2.33	64.98	-	-	42.56	-
<b>Span 9.50 m</b>												
232Z20	6.34	12.83	1.35	1.13	0.90	0.75	0.68	13.58	-	-	12.80	-
232Z25	7.93	17.96	1.89	1.58	1.26	1.05	0.95	16.81	-	-	16.85	-
252Z17	5.58	11.21	1.18	0.98	0.79	0.65	0.59	13.88	-	-	10.85	-
252Z20	6.34	13.68	1.44	1.20	0.96	0.80	0.72	15.67	-	-	13.64	-
252Z25	7.93	19.19	2.02	1.68	1.35	1.12	1.01	19.47	-	-	18.61	-
302Z17	6.8	14.06	1.48	1.23	0.99	0.82	0.74	24.05	-	-	13.10	-
302Z20	7.78	17.20	1.81	1.51	1.21	1.01	0.91	27.83	-	-	16.28	-
302Z25	9.73	24.32	2.56	2.13	1.71	1.42	1.28	34.67	-	-	23.62	-
302Z30	11.68	32.21	3.39	2.83	2.26	1.88	1.70	41.78	-	-	31.05	-
342Z20	8.73	21.38	2.25	1.88	1.50	1.25	1.13	41.32	-	-	21.66	-
342Z25	10.91	30.02	3.16	2.63	2.11	1.76	1.58	51.30	-	-	30.52	-
342Z30	13.10	39.71	4.18	3.48	2.79	2.32	2.09	61.18	-	-	40.38	-
<b>Span 10.00 M</b>												
232Z20	6.34	12.20	1.22	1.02	0.81	0.68	0.61	12.00	-	-	12.12	-
232Z25	7.93	17.00	1.7	1.42	1.13	0.94	0.85	15.10	-	-	15.96	-
252Z20	6.34	12.90	1.29	1.08	0.86	0.72	0.65	14.20	-	-	12.90	-
252Z25	7.93	18.20	1.82	1.52	1.21	1.01	0.91	17.50	-	-	17.62	-

Section Ref	Weight Kg/m	Total UDL KN	Allowable downward loads in Kn/m <sup>2</sup>					Total UDL Kn	Total Uplifting Loads in KN			
			[Purlin Centers in mms]					Deflection	[Metal cladding] No of Antisag Rods			
			1000	1200	1500	1800	2000	Span/180	0	1	2	3
<b>OVERLAP SYSTEM</b>												
<b>Span 10.00 M</b>												
302Z17	6.8	13.20	1.32	1.10	0.88	0.73	0.66	21.45	-	-	12.20	-
302Z20	7.78	16.30	1.63	1.36	1.09	0.91	0.82	25.00	-	-	15.19	-
302Z25	9.73	23.00	2.3	1.92	1.53	1.28	1.15	31.50	-	-	22.37	-
302Z30	11.68	26.70	2.67	2.23	1.78	1.48	1.34	37.00	-	-	29.38	-
342Z20	8.73	20.20	2.02	1.68	1.35	1.12	1.01	37.00	-	-	20.15	-
342Z25	10.91	28.40	2.84	2.37	1.89	1.58	1.42	46.00	-	-	28.98	-
342Z30	13.10	37.60	3.76	3.13	2.51	2.09	1.88	55.00	-	-	36.70	-
<b>Span 10.5 M</b>												
342Z20	8.73	19.32	1.84	1.53	1.23	1.02	0.92	33.60	-	-	18.42	-
342Z25	10.91	27.09	2.58	2.15	1.72	1.43	1.29	42.00	-	-	26.06	-
342Z30	13.10	35.91	3.42	2.85	2.28	1.90	1.71	49.87	-	-	34.89	-
<b>Span 11.0 M</b>												
342Z20	8.73	18.37	1.67	1.39	1.11	0.93	0.84	30.58	-	-	16.71	-
342Z25	10.91	25.85	2.35	1.96	1.57	1.31	1.18	37.95	-	-	24.03	-
342Z30	13.10	34.10	3.10	2.58	2.07	1.72	1.55	45.10	-	-	33.20	-