



COLD FORMED C-SECTIONS

C2622.0 6.97 kg/m **Material: ASTM A653, Grade:50, EN-10147, S350, GD Z275, G90(Fy=350 N/mm2)**

UNIFORMLY DISTRIBUTED LOADS(KN/m²), DUE TO DL+LL

**Total Uplift Loads,
DL+WL, KN**

Span L, m	Total Load KN	C-Purlin Center/Center Spacing, m												Allw. Defl. L/180, cm	No. of Anti-Sag Rods		
		1.0	1.2	1.4	1.5	1.6	1.8	2.0	2.2	2.4	2.5	2.8	3.0		0	1	2
5.0	29.18	5.84	4.86	4.17	3.89	3.65	3.24	2.92	2.65	2.43	2.33	2.08	1.95	2.78	19.41	-	-
5.5	26.53	4.82	4.02	3.45	3.22	3.01	2.68	2.41	2.19	2.01	1.93	1.72	1.61	3.06	17.64	-	-
6.0	24.32	4.05	3.38	2.90	2.70	2.53	2.25	2.03	1.84	1.69	1.62	1.45	1.35	3.33	-	16.17	-
6.5	22.45	3.45	2.88	2.47	2.30	2.16	1.92	1.73	1.57	1.44	1.38	1.23	1.15	3.61	-	14.93	-
7.0	20.85	2.98	2.48	2.13	1.99	1.86	1.65	1.49	1.35	1.24	1.19	1.06	0.99	3.89	-	13.86	-
7.5	19.46	2.59	2.16	1.85	1.73	1.62	1.44	1.30	1.18	1.08	1.04	0.93	0.86	4.17	-	12.94	-
8.0	18.24	2.28	1.90	1.63	1.52	1.43	1.27	1.14	1.04	0.95	0.91	0.81	0.76	4.44	-	12.13	-
8.5	17.17	2.02	1.68	1.44	1.35	1.26	1.12	1.01	0.92	0.84	0.81	0.72	0.67	4.72	-	-	11.42
9.0	16.21	1.80	1.50	1.29	1.20	1.13	1.00	0.90	0.82	0.75	0.72	0.64	0.60	5.00	-	-	10.78
9.5	15.36	1.62	1.35	1.15	1.08	1.01	0.90	0.81	0.73	0.67	0.65	0.58	0.54	5.28	-	-	10.21
10.0	14.59	1.46	1.22	1.04	0.97	0.91	0.81	0.73	0.66	0.61	0.58	0.52	0.49	5.56	-	-	9.70

C2622.5 8.67 kg/m **Material: ASTM A653, Grade:50, EN-10147, S350, GD Z275, G90(Fy=350 N/mm2)**

UNIFORMLY DISTRIBUTED LOADS(KN/M²), DUE TO DL+LL

**Total Uplift Loads,
DL+WL, KN**

Span L m	Total Load KN	C-Purlin Center/Center Spacing, m												Allw. Defl. L/180, cm	No. of Anti-Sag Rods		
		1.0	1.2	1.4	1.5	1.6	1.8	2.0	2.2	2.4	2.5	2.8	3.0		0	1	2
5.0	37.56	7.51	6.26	5.37	5.01	4.69	4.17	3.76	3.41	3.13	3.00	2.68	2.50	2.78	24.98	-	-
5.5	34.14	6.21	5.17	4.43	4.14	3.88	3.45	3.10	2.82	2.59	2.48	2.22	2.07	3.06	22.70	-	-
6.0	31.30	5.22	4.35	3.73	3.48	3.26	2.90	2.61	2.37	2.17	2.09	1.86	1.74	3.33	-	20.81	-
6.5	28.89	4.44	3.70	3.17	2.96	2.78	2.47	2.22	2.02	1.85	1.78	1.59	1.48	3.61	-	19.21	-
7.0	26.83	3.83	3.19	2.74	2.55	2.40	2.13	1.92	1.74	1.60	1.53	1.37	1.28	3.89	-	17.84	-
7.5	25.04	3.34	2.78	2.38	2.23	2.09	1.85	1.67	1.52	1.39	1.34	1.19	1.11	4.17	-	16.65	-
8.0	23.47	2.93	2.45	2.10	1.96	1.83	1.63	1.47	1.33	1.22	1.17	1.05	0.98	4.44	-	15.61	-
8.5	22.09	2.60	2.17	1.86	1.73	1.62	1.44	1.30	1.18	1.08	1.04	0.93	0.87	4.72	-	-	14.69
9.0	20.86	2.32	1.93	1.66	1.55	1.45	1.29	1.16	1.05	0.97	0.93	0.83	0.77	5.00	-	-	13.88
9.5	19.77	2.08	1.73	1.49	1.39	1.30	1.16	1.04	0.95	0.87	0.83	0.74	0.69	5.28	-	-	13.14
10.0	18.78	1.88	1.56	1.34	1.25	1.17	1.04	0.94	0.85	0.78	0.75	0.67	0.63	5.56	-	-	12.49

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Notes: 1. Design of C-Purlins is based on AISI-1999 (LRFD) or equi BS5950 P5.

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2. These capacities are applicable for roof slopes of upto 3:10 only.

3. Capacities for uplift loads are increased by 33-1/3% as per AISI.

4. Sag rods shall be located at equal distances. 5. Check deflection as per actual loads.