



## COLD FORMED C-SECTIONS

**C1721.5**

3.72 kg/m

**Material: ASTM A653, Grade:50, EN-10147, S350, GD Z275, G90(Fy=350 N/mm2)**

### UNIFORMLY DISTRIBUTED LOADS(KN/m<sup>2</sup>), 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
3.0	18.72	6.24	5.20	4.46	4.16	3.90	3.47	3.12	2.84	2.60	2.50	2.23	2.08	1.67	12.45	-	-
3.5	16.04	4.58	3.82	3.27	3.06	2.86	2.55	2.29	2.08	1.91	1.83	1.64	1.53	1.94	10.67	-	-
4.0	14.04	3.51	2.92	2.51	2.34	2.19	1.95	1.75	1.60	1.46	1.40	1.25	1.17	2.22	9.33	-	-
4.5	12.48	2.77	2.31	1.98	1.85	1.73	1.54	1.39	1.26	1.16	1.11	0.99	0.92	2.50	8.30	-	-
5.0	11.23	2.25	1.87	1.60	1.50	1.40	1.25	1.12	1.02	0.94	0.90	0.80	0.75	2.78	7.47	-	-
5.5	10.21	1.86	1.55	1.33	1.24	1.16	1.03	0.93	0.84	0.77	0.74	0.66	0.62	3.06	6.79	-	-
6.0	9.36	1.56	1.30	1.11	1.04	0.97	0.87	0.78	0.71	0.65	0.62	0.56	0.52	3.33	-	6.22	-
6.5	8.64	1.33	1.11	0.95	0.89	0.83	0.74	0.66	0.60	0.55	0.53	0.47	0.44	3.61	-	5.74	-
7.0	8.02	1.15	0.95	0.82	0.76	0.72	0.64	0.57	0.52	0.48	0.46	0.41	0.38	3.89	-	5.33	-
7.5	7.49	1.00	0.83	0.71	0.67	0.62	0.55	0.50	0.45	0.42	0.40	0.36	0.33	4.17	-	4.98	-
8.0	7.02	0.88	0.73	0.63	0.58	0.55	0.49	0.44	0.40	0.37	0.35	0.31	0.29	4.44	-	4.67	-

**C1722.0**

4.93 kg/m

**Material: ASTM A653, Grade:50, EN-10147, S350, GD Z275, G90(Fy=350 N/mm2)**

### UNIFORMLY DISTRIBUTED LOADS(KN/M<sup>2</sup>), 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
3.0	25.99	8.66	7.22	6.19	5.77	5.41	4.81	4.33	3.94	3.61	3.46	3.09	2.89	1.67	17.28	-	-
3.5	22.27	6.36	5.30	4.55	4.24	3.98	3.54	3.18	2.89	2.65	2.55	2.27	2.12	1.94	14.81	-	-
4.0	19.49	4.87	4.06	3.48	3.25	3.05	2.71	2.44	2.21	2.03	1.95	1.74	1.62	2.22	12.96	-	-
4.5	17.32	3.85	3.21	2.75	2.57	2.41	2.14	1.92	1.75	1.60	1.54	1.37	1.28	2.50	11.52	-	-
5.0	15.59	3.12	2.60	2.23	2.08	1.95	1.73	1.56	1.42	1.30	1.25	1.11	1.04	2.78	10.37	-	-
5.5	14.17	2.58	2.15	1.84	1.72	1.61	1.43	1.29	1.17	1.07	1.03	0.92	0.86	3.06	9.43	-	-
6.0	12.99	2.17	1.80	1.55	1.44	1.35	1.20	1.08	0.98	0.90	0.87	0.77	0.72	3.33	-	8.64	-
6.5	11.99	1.85	1.54	1.32	1.23	1.15	1.03	0.92	0.84	0.77	0.74	0.66	0.62	3.61	-	7.98	-
7.0	11.14	1.59	1.33	1.14	1.06	0.99	0.88	0.80	0.72	0.66	0.64	0.57	0.53	3.89	-	7.41	-
7.5	10.39	1.39	1.15	0.99	0.92	0.87	0.77	0.69	0.63	0.58	0.55	0.49	0.46	4.17	-	6.91	-
8.0	9.74	1.22	1.02	0.87	0.81	0.76	0.68	0.61	0.55	0.51	0.49	0.44	0.41	4.44	-	6.48	-

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

15.03.10

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.