



# Z Purlin Roof Load Tables

Roof Purlin Z Section	Span (m)	Total Working UDL (kN)	Working Loads							Span Deflection 180	Ultimate U.D.L. in kN / span			
			Allowable loading in kN/sq m Purlin centres in millimetres								Gravity Load	Uplift - metal cladding Number anti sag rods		
			1000	1200	1500	1800	2000	2400	0			1	2	
<b>3.50m</b>														
14016	3.5	11.17	3.19	2.66	2.13	1.77	1.6	1.33	13.99	16.76	10.59	16.24	16.76	
14018	3.5	13.71	3.92	3.26	2.61	2.18	1.96	1.63	15.69	20.57	12.64	19.35	20.57	
14020	3.5	16.22	4.63	3.86	3.09	2.57	2.32	1.93	17.36	24.32	14.68	22.38	24.32	
<b>4.00m</b>														
14016	4	9.78	2.44	2.04	1.63	1.36	1.22	1.02	10.71	14.66	8.48	12.99	14.66	
14018	4	12	3	2.5	2	1.67	1.5	1.25	12.01	17.99	10.17	15.43	17.99	
14020	4	13.29	3.32	2.77	2.21	1.85	1.66	1.38	13.29	21.28	11.86	17.81	21.28	
17516	4	12.96	3.24	2.7	2.16	1.8	1.62	1.35	15.78	19.44	11.79	18.25	19.44	
17518	4	16.14	4.04	3.36	2.69	2.24	2.02	1.68	17.71	24.21	14.2	21.91	24.21	
17520	4	19.29	4.82	4.02	3.22	2.68	2.41	2.01	19.61	28.94	16.61	25.47	28.94	
<b>4.50m</b>														
14016	4.5	8.46	1.88	1.57	1.25	1.04	0.94	0.78	8.46	13.03	7.03	10.58	13.03	
14018	4.5	9.49	2.11	1.76	1.41	1.17	1.05	0.88	9.49	16	8.47	12.56	16	
14020	4.5	10.5	2.33	1.94	1.56	1.3	1.17	0.97	10.5	18.92	9.9	14.5	18.92	
17516	4.5	11.52	2.56	2.13	1.71	1.42	1.28	1.07	12.47	17.28	9.71	14.93	17.28	
17518	4.5	13.99	3.11	2.59	2.07	1.73	1.55	1.3	13.99	21.52	11.74	17.86	21.52	
17520	4.5	15.5	3.44	2.87	2.3	1.91	1.72	1.43	15.5	25.72	13.78	20.73	25.72	
20016	4.5	13.81	3.07	2.56	2.05	1.71	1.53	1.28	15.22	20.72	11.48	17.69	20.72	
<b>5.00m</b>														
14016	5	6.86	1.37	1.14	0.91	0.76	0.69		6.86	11.73	5.99	8.79	11.71	
14018	5	7.69	1.54	1.28	1.02	0.85	0.77		7.69	14.4	7.24	10.43	13.97	
14020	5	8.51	1.7	1.42	1.13	0.95	0.85	0.71	8.51	17.03	8.49	12.06	16.18	
17516	5	10.1	2.02	1.68	1.35	1.12	1.01		10.1	15.55	8.21	12.4	15.55	
17518	5	11.33	2.27	1.89	1.51	1.26	1.13	0.94	11.33	19.37	9.98	14.83	19.37	
17520	5	12.55	2.51	2.09	1.67	1.39	1.26	1.05	12.55	23.15	11.74	17.21	22.98	
20016	5	12.33	2.47	2.05	1.64	1.37	1.23	1.03	12.33	18.65	9.72	14.68	18.65	
20018	5	13.84	2.77	2.31	1.84	1.54	1.38	1.15	13.84	23.24	11.8	17.54	23.24	
20020	5	15.33	3.07	2.56	2.04	1.7	1.53	1.28	15.33	27.79	13.87	20.35	27.32	
<b>5.50m</b>														
14016	5.5	5.67	1.03	0.86	0.69				5.67	10.66	5.21	7.43	10.03	
14018	5.5	6.35	1.15	0.96	0.77				6.35	13.09	6.31	8.84	11.94	
14020	5.5	7.03	1.28	1.07	0.85	0.71			7.03	15.48	7.42	10.24	13.79	
17516	5.5	8.35	1.52	1.26	1.01				8.35	14.13	7.1	10.47	14.02	
17518	5.5	9.37	1.7	1.42	1.14	0.95	0.85	0.71	9.37	17.61	8.66	12.52	16.89	
17520	5.5	10.37	1.89	1.57	1.26	1.05	0.94	0.79	10.37	21.05	10.21	14.55	19.68	
20016	5.5	10.19	1.85	1.54	1.23	1.03	0.93	0.77	10.19	16.95	8.4	12.38	16.66	
20018	5.5	11.44	2.08	1.73	1.39	1.16	1.04	0.87	11.44	21.13	10.24	14.81	20.06	
20020	5.5	12.67	2.3	1.92	1.54	1.28	1.15	0.96	12.67	25.26	12.08	17.19	23.35	
<b>6.00m</b>														
14018	6	5.34	0.89	0.74					5.34	12	5.6	7.62	10.28	
14020	6	5.91	0.98	0.82					5.91	14.19	6.59	8.84	11.87	
17516	6	7.01	1.17	0.97					7.01	12.96	6.25	8.97	12.17	
17518	6	7.87	1.31	1.09	0.87	0.73			7.87	16.14	7.64	10.75	14.61	
17520	6	8.72	1.45	1.21	0.97	0.81	0.73	0.61	8.72	19.29	9.04	12.51	16.98	
20016	6	8.56	1.43	1.19	0.95	0.79	0.71		8.56	15.54	7.4	10.61	14.44	
20018	6	9.61	1.6	1.33	1.07	0.89	0.8		9.61	19.37	9.04	12.71	17.32	
20020	6	10.65	1.77	1.48	1.18	0.99	0.89	0.74	10.65	23.16	10.69	14.78	20.12	
20025	6	13.2	2.2	1.83	1.47	1.22	1.1	0.92	13.2	32.46	14.81	19.91	26.88	
23016	6	11.48	1.91	1.59	1.28	1.06	0.96	0.8	11.48	18.26	8.13	12.47	17.1	
23018	6	12.89	2.15	1.79	1.43	1.19	1.07	0.9	12.89	23.13	9.99	15	20.78	
23020	6	12.18	2.03	1.69	1.35	1.13	1.01	0.85	12.18	25.82	10.54	15.14	21.12	
<b>6.50m</b>														
17518	6.5	6.71	1.03	0.86	0.69				6.71	14.9	6.84	9.37	12.72	
17520	6.5	7.43	1.14	0.95	0.76				7.43	17.81	8.1	10.92	14.77	
20016	6.5	7.29	1.12	0.94	0.75				7.29	14.35	6.61	9.22	12.59	
20018	6.5	8.19	1.26	1.05	0.84	0.7			8.19	17.88	8.09	11.07	15.07	
20020	6.5	9.07	1.4	1.16	0.93	0.78	0.7		9.07	21.38	9.58	12.9	17.49	
20025	6.5	11.24	1.73	1.44	1.15	0.96	0.86	0.72	11.24	29.96	13.32	17.45	23.35	
23016	6.5	9.78	1.5	1.25	1	0.84	0.75		9.78	16.85	7.19	10.76	14.96	
23018	6.5	10.99	1.69	1.41	1.13	0.94	0.85	0.7	10.99	21.35	8.87	12.97	18.1	
<b>7.00m</b>														
17520	7	6.4	0.91	0.76					6.4	16.54	7.34	9.66	12.96	
20016	7	6.29	0.9	0.75					6.29	13.32	5.97	8.12	11.06	
20018	7	7.06	1.01	0.84	0.67				7.06	16.6	7.33	9.77	13.22	
20020	7	7.82	1.12	0.93	0.75				7.82	19.85	8.69	11.41	15.33	
20025	7	9.7	1.39	1.15	0.92	0.77	0.69		9.7	27.82	12.11	15.49	20.48	
23016	7	8.43	1.2	1	0.8				8.43	15.65	6.45	9.4	13.14	
23018	7	9.47	1.35	1.13	0.9	0.75	0.68		9.47	19.83	7.97	11.35	15.86	
23020	7	10.5	1.5	1.25	1	0.83	0.75		10.5	23.97	9.5	13.28	18.48	

23025	7	13.03	1.86	1.55	1.24	1.03	0.93	0.78	13.03	34.16	13.32	18.04	24.81
26018	7	12.69	1.81	1.51	1.21	1.01	0.91	0.76	12.69	23.53	9.35	13.27	18.56
26020	7	14.08	2.01	1.68	1.34	1.12	1.01	0.84	14.08	28.45	11.13	15.52	21.62
26025	7	17.48	2.5	2.08	1.67	1.39	1.25	1.04	17.48	40.58	15.59	21.07	29
7.50m													
20020	7.5	6.81	0.91	0.76					6.81	18.53	7.95	10.21	13.56
20025	7.5	8.45	1.13	0.94	0.75				8.45	25.97	11.1	13.9	18.15
23016	7.5	7.35	0.98	0.82					7.35	14.6	5.84	8.31	11.62
23018	7.5	8.25	1.1	0.92	0.73				8.25	18.51	7.24	10.05	13.99
23020	7.5	9.15	1.22	1.02	0.81	0.68			9.15	22.37	8.64	11.78	16.29
23025	7.5	11.35	1.51	1.26	1.01	0.84	0.76		11.35	31.89	12.15	16.07	21.87
26018	7.5	11.06	1.47	1.23	0.98	0.82	0.74		11.06	21.96	8.49	11.75	16.36
26020	7.5	12.26	1.63	1.36	1.09	0.91	0.82	0.68	12.26	26.55	10.13	13.77	19.05
26025	7.5	15.23	2.03	1.69	1.35	1.13	1.02	0.85	15.23	37.87	14.23	18.77	25.55
8.00m													
20025	8	7.42	0.93	0.77					7.42	24.35	10.25	12.6	16.22
23016	8	6.46	0.81	0.67					6.46	13.69	5.33	7.42	10.33
23018	8	7.25	0.91	0.76					7.25	17.35	6.63	9	12.42
23020	8	8.04	1.01	0.84	0.67				8.04	20.98	7.92	10.56	14.46
23025	8	9.98	1.25	1.04	0.83	0.69			9.98	29.89	11.18	14.46	19.44
26018	8	9.72	1.21	1.01	0.81	0.67			9.72	20.59	7.78	10.52	14.53
26020	8	10.78	1.35	1.12	0.9	0.75	0.67		10.78	24.89	9.29	12.35	16.91
26025	8	13.39	1.67	1.39	1.12	0.93	0.84	0.7	13.39	35.51	13.09	16.89	22.71
8.50m													
23020	8.5	7.12	0.84	0.7					7.12	19.74	7.32	9.56	12.94
23025	8.5	8.84	1.04	0.87	0.69				8.84	28.14	10.35	13.13	17.42
26018	8.5	8.61	1.01	0.84	0.68				8.61	19.37	7.18	9.5	12.99
26020	8.5	9.55	1.12	0.94	0.75				9.55	23.43	8.59	11.18	15.12
26025	8.5	11.86	1.39	1.16	0.93	0.77	0.7		11.86	33.42	12.13	15.34	20.34
9.00m													
23025	9	7.88	0.88	0.73					7.88	26.57	9.63	12.01	15.72
26018	9	7.68	0.85	0.71					7.68	18.3	6.66	8.65	11.69
26020	9	8.52	0.95	0.79					8.52	22.13	7.98	10.19	13.62
26025	9	10.58	1.18	0.98	0.78				10.58	31.56	11.29	14.04	18.36
30020	9	13.46	1.5	1.25	1	0.83	0.75		13.46	25.62	10.03	14.05	19.61
30025	9	16.75	1.86	1.55	1.24	1.03	0.93	0.78	16.75	38.67	14.68	19.76	27.2
30030	9	19.97	2.22	1.85	1.48	1.23	1.11	0.92	19.97	51.49	19.35	25.41	34.5
9.50m													
26020	9.5	7.64	0.8	0.67					7.64	20.96	7.46	9.36	12.35
30020	9.5	12.08	1.27	1.06	0.85	0.71			12.08	24.27	9.31	12.78	17.75
30025	9.5	15.03	1.58	1.32	1.05	0.88	0.79		15.03	36.63	13.67	18.05	24.62
30030	9.5	17.92	1.89	1.57	1.26	1.05	0.94	0.79	17.92	48.78	18.05	23.27	31.26
10.00m													
30020	10	10.9	1.09	0.91	0.73				10.9	23.05	8.68	11.71	16.15
30025	10	13.56	1.36	1.13	0.9	0.75	0.68		13.56	34.8	12.79	16.6	22.41
30030	10	16.17	1.62	1.35	1.08	0.9	0.81	0.67	16.17	46.34	16.91	21.45	28.48

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