

## DOUBLE SPAN PURLIN LOAD TABLES

The loads shown (kN) are dependent on lateral restraint of the upper flange by suitable cladding. Angle struts should be used to restrain against uplift. The self weight of the section has not being deducted from the values below.

Section reference	Section Weight (Kg/m)	Total Working U.D.L. (kN)	Allowable working Loads ( kN/m <sup>2</sup> ) Purlin Centres (mm)									Deflection ( $\Delta y_{MAX}$ ) @ Total Working U.D.L.(mm)	Ultimate U.D.L. (kN)
			1200	1400	1600	1800	2000	2200	2400	2600	2800		
145/1.50	3.607	8.60	2.39	2.05	1.79	1.59	1.43	1.30	1.19	1.10	1.02	2.49	12.90
			<i>SPAN: 3m</i>										
145/1.50	3.607	7.37	1.75	1.50	1.32	1.17	1.05	0.96	0.88	0.81	0.75	3.39	11.05
			<i>SPAN: 3.5m</i>										
145/1.50	3.607	6.45	1.34	1.15	1.01	0.90	0.81	0.73	0.67	0.62	0.58	4.43	9.67
175/150	3.967	8.15	1.70	1.46	1.27	1.13	1.02	0.93	0.85	0.78	0.73	4.65	12.23
175/1.80	4.729	9.66	2.01	1.72	1.51	1.34	1.21	1.10	1.01	0.93	0.86	4.11	14.48
175/2.00	5.242	10.02	2.09	1.79	1.57	1.39	1.25	1.14	1.04	0.96	0.89	3.74	16.03
			<i>SPAN: 4m</i>										
145/1.50	3.607	5.73	1.06	0.91	0.80	0.71	0.64	0.58	0.53	0.49	0.45	5.61	8.60
175/150	3.967	7.25	1.34	1.15	1.01	0.89	0.81	0.73	0.67	0.62	0.58	5.89	10.87
175/1.80	4.729	8.05	1.49	1.28	1.12	0.99	0.89	0.81	0.75	0.69	0.64	4.88	12.87
175/2.00	5.242	7.91	1.47	1.26	1.10	0.98	0.88	0.80	0.73	0.68	0.63	4.43	14.25
205/1.50	4.334	9.01	1.67	1.43	1.25	1.11	1.00	0.91	0.83	0.77	0.72	4.03	13.52
			<i>SPAN: 4.5m</i>										
145/1.50	3.607	5.37	0.93	0.80	0.70	0.62	0.56	0.51	0.47			6.38	8.06
175/150	3.967	6.80	1.18	1.01	0.88	0.79	0.71	0.64	0.59	0.54	0.51	6.70	10.19
175/1.80	4.729	7.54	1.31	1.12	0.98	0.87	0.79	0.71	0.65	0.60	0.56	5.55	12.07
175/2.00	5.242	7.42	1.29	1.10	0.97	0.86	0.77	0.70	0.64	0.59	0.55	5.05	13.36
205/1.50	4.334	8.45	1.47	1.26	1.10	0.98	0.88	0.80	0.73	0.68	0.63	7.39	12.67
205/1.80	5.184	10.08	1.75	1.50	1.31	1.17	1.05	0.95	0.88	0.81	0.75	6.16	15.12
205/2.00	5.747	11.16	1.94	1.66	1.45	1.29	1.16	1.06	0.97	0.89	0.83	5.60	16.74
			<i>SPAN: 4.8m</i>										
145/1.50	3.607	4.84	0.81	0.69	0.60	0.54	0.48	0.44				6.49	7.74
175/150	3.967	6.52	1.09	0.93	0.82	0.72	0.65	0.59	0.54	0.50	0.47	7.27	9.79
175/1.80	4.729	6.82	1.14	0.97	0.85	0.76	0.68	0.62	0.57	0.52	0.49	5.67	11.59
175/2.00	5.242	7.12	1.19	1.02	0.89	0.79	0.71	0.65	0.59	0.55	0.51	5.15	12.82
205/1.50	4.334	8.11	1.35	1.16	1.01	0.90	0.81	0.74	0.68	0.62	0.58	7.52	12.16
205/1.80	5.184	9.07	1.51	1.30	1.13	1.01	0.91	0.82	0.76	0.70	0.65	6.26	14.52
205/2.00	5.747	9.45	1.58	1.35	1.18	1.05	0.95	0.86	0.79	0.73	0.68	5.69	16.07
			<i>SPAN: 5m</i>										
145/1.50	3.607	4.14	0.63	0.54	0.47							7.39	7.03
175/150	3.967	5.23	0.79	0.68	0.59	0.53	0.48	0.43				7.76	8.90
175/1.80	4.729	5.85	0.89	0.76	0.66	0.59	0.53	0.48	0.44	0.41		6.48	10.53
175/2.00	5.242	5.83	0.88	0.76	0.66	0.59	0.53	0.48	0.44	0.41	0.38	5.89	11.66
205/1.50	4.334	7.37	1.12	0.96	0.84	0.74	0.67	0.61	0.56	0.52	0.48	9.10	11.06
205/1.80	5.184	8.25	1.25	1.07	0.94	0.83	0.75	0.68	0.62	0.58	0.54	7.58	13.20
205/2.00	5.747	8.59	1.30	1.12	0.98	0.87	0.78	0.71	0.65	0.60	0.56	6.89	14.61
			<i>SPAN: 5.5m</i>										
145/1.50	3.607	3.39	0.47									7.87	6.45
175/150	3.967	4.53	0.63	0.54	0.47							8.73	8.15
175/1.80	4.729	4.83	0.67	0.57	0.50	0.45	0.40					6.94	9.66
175/2.00	5.242	5.09	0.71	0.61	0.53	0.47	0.42	0.39				6.31	10.69
205/1.50	4.334	6.76	0.94	0.80	0.70	0.63	0.56	0.51	0.47			10.82	10.14
205/1.80	5.184	7.56	1.05	0.90	0.79	0.70	0.63	0.57	0.53	0.48	0.45	9.02	12.10
205/2.00	5.747	7.88	1.09	0.94	0.82	0.73	0.66	0.60	0.55	0.50	0.47	8.20	13.39
			<i>SPAN: 6m</i>										
145/1.50	3.607	3.34	0.46									8.13	6.34
175/150	3.967	4.46	0.61	0.52	0.46							10.86	8.02
175/1.80	4.729	4.75	0.65	0.56	0.49	0.43	0.39					7.17	9.50
175/2.00	5.242	5.00	0.68	0.59	0.51	0.46	0.41	0.37				6.52	10.51
205/1.50	4.334	6.65	0.91	0.78	0.68	0.61	0.54	0.50	0.45			11.19	9.97
205/1.80	5.184	7.44	1.02	0.87	0.76	0.68	0.61	0.55	0.51	0.47	0.44	9.32	11.90
205/2.00	5.747	7.75	1.06	0.91	0.79	0.71	0.64	0.58	0.53	0.49	0.45	8.48	13.17
			<i>SPAN: 6.1m</i>										
175/150	3.967	3.76	0.48									11.10	7.53
175/1.80	4.729	4.05	0.52	0.45	0.39							7.40	8.91
175/2.00	5.242	4.11	0.53	0.45	0.40	0.35						6.73	9.86
205/1.50	4.334	5.50	0.71	0.60	0.53	0.47	0.42					10.70	9.36
205/1.80	5.184	5.88	0.75	0.65	0.57	0.50	0.45	0.41	0.38			8.91	11.17
205/2.00	5.747	6.18	0.79	0.68	0.59	0.53	0.48	0.43	0.40	0.37		8.10	12.36
			<i>SPAN: 6.5m</i>										
175/1.80	4.729	3.18	0.38									7.26	8.28
175/2.00	5.242	3.05	0.36	0.31								6.60	9.16
205/1.50	4.334	4.83	0.57	0.49	0.43							11.22	8.69
205/1.80	5.184	4.94	0.59	0.50	0.44	0.39						9.35	10.37
205/2.00	5.747	5.22	0.62	0.53	0.47	0.41	0.37					8.50	11.48
			<i>SPAN: 7m</i>										
205/1.50	4.334	4.27	0.47									12.30	8.11
205/1.80	5.184	4.40	0.49	0.42								10.25	9.68
205/2.00	5.747	4.46	0.50	0.43	0.37							9.32	10.71
			<i>SPAN: 7.5m</i>										
205/1.80	5.184	3.94	0.41									11.16	9.07
205/2.00	5.747	3.72	0.39	0.33								10.14	10.04
			<i>SPAN: 8m</i>										

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