

# Multichannel - Load Tables

## Single Span Load Tables for Multichannel Floor Beams

### Ultimate Loads

Load tables are for Multichannels used as secondary floor beams. These can be fixed in one of three ways:

Between support steelwork. Over support steelwork fixed with or without Multibeam cleats (single or double span).

ALL LOADS SHOWN ARE ULTIMATE. VALUES SHOWN FOR DEFLECTION SHOULD BE COMPARED AGAINST APPLIED VALUES AT WORKING LOAD.

Loading assumes deck provides restraint to Multichannels and Multichannel restraints are provided at mid-span before placement of the deck. The deck should be suitably attached at the edge to restrain the floor (not applicable to Multichannel fixed over steel with cleats).

Multichannels must be fixed heel to heel and toe to toe. See construction details in the Multibeam Handbook.

Table 4:10 Multichannel Floor Beams Single Span Between Steel

Span (m)	Section	Weight kg/m	Ultimate Allowable Load kN	Deflection Limit L/250 kN	Deflection Limit L/360 kN	
3.0	L145070120	2.75	14.93	8.78	7.32	
	L145070130	2.99	17.04	9.51	7.92	
	L145070140	3.21	19.22	10.22	8.52	
	L145070150	3.45	21.43	10.93	9.11	
	L145070160	3.69	23.64	11.64	9.70	
	L145070180	4.15	28.04	13.03	10.86	
	L145070200	4.63	32.25	14.41	12.00	
	L175070120	3.02	17.84	13.54	11.28	
	L175070130	3.29	20.80	14.66	12.21	
	L175070140	3.52	23.53	15.76	13.14	
	L175070150	3.79	26.30	16.87	14.05	
	L175070160	4.05	29.08	17.96	14.97	
	L175070180	4.55	34.58	20.12	16.77	
	L175070200	5.08	39.86	22.26	18.55	
3.5	L145070120	2.75	12.80	6.45	5.38	
	L145070130	2.99	14.61	6.98	5.82	
	L145070140	3.21	16.47	7.51	6.26	
	L145070150	3.45	18.37	8.03	6.69	
	L145070160	3.69	20.27	8.55	7.12	
	L145070180	4.15	24.03	9.57	7.98	
	L145070200	4.63	27.65	10.58	8.82	
	L175070120	3.02	15.54	9.95	8.29	
	L175070130	3.29	17.83	10.77	8.97	
	L175070140	3.52	20.17	11.58	9.65	
	L175070150	3.79	22.55	12.39	10.33	
	L175070160	4.05	24.92	13.19	11.00	
	L175070180	4.55	29.64	14.78	12.32	
	L175070200	5.08	34.17	16.35	13.62	
4.0	L145070120	2.75	11.20	4.94	4.12	
	L145070130	2.99	12.78	5.35	4.46	
	L145070140	3.21	14.41	5.75	4.79	
	L145070150	3.45	16.07	6.15	5.12	
	L145070160	3.69	17.73	6.55	5.45	
	L145070180	4.15	21.02	7.33	6.11	
	L145070200	4.63	24.19	8.10	6.75	
	L175070120	3.02	13.60	7.62	6.35	
	L175070130	3.29	15.60	8.25	6.87	
	L175070140	3.52	17.65	8.87	7.39	
	L175070150	3.79	19.73	9.49	7.91	
	L175070160	4.05	21.81	10.10	8.42	
	L175070180	4.55	25.94	11.32	9.43	
	L175070200	5.08	29.90	12.52	10.43	
4.5	L175070220	5.56	33.70	13.70	11.42	
	L175070250	6.35	39.12	15.44	12.87	
	L175070120	3.02	12.09	6.02	5.01	
	L175070130	3.29	13.86	6.51	5.43	
	L175070140	3.52	15.69	7.01	5.84	
	L175070150	3.79	17.54	7.50	6.25	
	L175070160	4.05	19.38	7.98	6.65	
	L175070180	4.55	23.05	8.94	7.45	
	5.0	L175070200	5.08	26.58	9.89	8.24
		L175070220	5.56	29.95	10.82	9.02
		L175070250	6.35	34.77	12.20	10.17
		L205070120	3.29	14.04	8.69	7.24
		L205070130	3.58	16.21	9.41	7.84
		L205070140	3.84	18.42	10.13	8.44
L205070150		4.13	20.66	10.84	9.03	
L205070160		4.41	22.91	11.54	9.62	
L175070120		3.02	10.88	4.87	4.06	
L175070130		3.29	12.48	5.28	4.40	
L175070140		3.52	14.12	5.68	4.73	
L175070150		3.79	15.78	6.07	5.06	
L175070160		4.05	17.45	6.47	5.39	
L175070180		4.55	20.75	7.24	6.04	
5.5	L175070200	5.08	23.92	8.01	6.68	
	L175070220	5.56	26.96	8.77	7.31	
	L175070250	6.35	31.30	9.88	8.23	
	L205070120	3.29	12.64	7.04	5.87	
	L205070130	3.58	14.59	7.62	6.35	
	L205070140	3.84	16.58	8.20	6.84	
	L205070150	4.13	18.60	8.78	7.31	
	L205070160	4.41	20.62	9.35	7.79	
	L205070120	3.29	11.48	5.82	4.85	
	L205070130	3.58	13.26	6.30	5.25	
	L205070140	3.84	15.07	6.78	5.65	
	L205070150	4.13	16.90	7.25	6.04	
	L205070160	4.41	18.74	7.72	6.44	
	L205070170	4.67	20.56	8.19	6.83	
6.0	L205070180	4.96	22.37	8.66	7.22	
	L205070200	5.53	25.88	9.58	7.98	
	L205070220	6.05	29.27	10.49	8.74	
	L205070250	6.91	34.13	11.83	9.86	
	L205070270	7.49	37.27	12.71	10.59	
	L205070160	3.29	17.18	6.49	5.41	
	L205070170	3.58	18.85	6.89	5.74	
	L205070180	3.84	20.51	7.28	6.06	
	L205070200	4.13	23.72	8.05	6.71	
	L205070220	4.41	26.83	8.81	7.35	
	L205070250	4.67	31.29	9.94	8.28	
	L205070270	4.96	34.16	10.68	8.90	
	L235070130	3.86	13.75	7.30	6.08	
	L235070140	4.14	15.71	7.85	6.54	
L235070150	4.45	17.70	8.40	7.00		
L235070160	4.76	19.69	8.95	7.46		
L235070170	5.04	21.67	9.49	7.91		
L235070180	5.35	23.63	10.04	8.36		
L235070200	5.97	27.46	11.11	9.26		
L235070220	6.53	31.16	12.17	10.14		
L235070250	7.46	36.53	13.73	11.44		
L235070270	8.08	40.01	14.75	12.29		

NOTE: Section self weight has not been subtracted from the loadings shown.