

Multichannel Cladding Rails

Ultimate Loads

Multichannel used as cladding rail supports, sections supported on Multichannel cleats as shown in the Multibeam Handbook
LOADS SHOWN ARE UDL'S IN kN AND ARE ULTIMATE VALUES.

Values against deflection should be compared against values at working load. Loading assumes cladding provides restraint to the Multichannel, and that the Multichannel restraint system as detailed in the Multibeam Handbook is used. Lining and levelling of the bottom base rails should be completed before fitting further rails or tube struts. Maximum height limit 10m.

Table 4:8 Double Span Cladding Rails (Vertical Cladding)

Span (m)	Siderail Section	Weight kg/m	Ultimate Uniformly Distributed Load (kN)		Working Load to Produce Deflection of Span/150	Span (m)	Siderail Section	Weight kg/m	Ultimate Uniformly Distributed Load (kN)		Working Load to Produce Deflection of Span/150
			Pressure	Suction					Pressure	Suction	
4.0	L145070120	2.75	9.39	9.39	19.83	6.0	L145070140	3.21	9.08	9.08	10.26
	L145070130	2.99	11.06	11.06	21.47		L145070150	3.45	10.23	10.23	10.97
	L145070140	3.21	12.79	12.79	23.08		L145070160	3.69	11.38	11.38	11.68
	L145070150	3.45	14.56	14.56	24.69		L145070180	4.15	13.65	13.19	13.08
	L145070160	3.69	16.33	16.33	26.28		L145070200	4.63	15.83	14.69	14.46
	L145070180	4.15	19.85	19.85	29.43		L145070220	5.06	17.89	16.15	15.83
	L145070200	4.63	23.22	23.22	32.53		L175070120	3.02	7.65	7.65	13.59
4.5	L145070220	5.06	26.41	26.41	35.61	L175070130	3.29	9.04	9.04	14.71	
	L145070120	2.75	8.62	8.62	15.67	L175070140	3.52	10.48	10.48	15.82	
	L145070130	2.99	10.1	10.1	16.96	L175070150	3.79	11.94	11.94	16.93	
	L145070140	3.21	11.63	11.63	18.24	L175070160	4.05	13.41	13.41	18.03	
	L145070150	3.45	13.19	13.19	19.51	L175070180	4.55	16.34	16.22	20.2	
	L145070160	3.69	14.75	14.75	20.76	L175070200	5.08	19.15	18.25	22.34	
	L145070180	4.15	17.85	17.85	23.25	L205070120	3.29	7.97	7.97	19.63	
5.0	L145070200	4.63	20.82	20.82	25.7	L205070130	3.58	9.59	9.59	21.26	
	L145070220	5.06	23.62	23.62	28.14	L205070140	3.84	11.3	11.3	22.87	
	L145070120	2.75	7.95	7.95	12.69	L205070150	4.13	13.06	13.06	24.47	
	L145070130	2.99	9.28	9.28	13.74	6.5	L175070150	3.79	11.17	11.17	14.43
	L145070140	3.21	10.65	10.65	14.77		L175070160	4.05	12.52	12.52	11.03
	L145070150	3.45	12.04	12.04	15.8		L175070180	4.55	15.52	15.52	17.21
	L145070160	3.69	13.44	13.44	16.82		L175070200	5.08	17.78	17.78	19.03
L145070180	4.15	16.2	16.2	18.83	L205070120		3.29	7.6	7.6	16.73	
L145070200	4.63	18.85	18.85	20.82	L205070130		3.58	9.11	9.11	18.11	
L145070220	5.06	21.35	21.35	22.79	L205070140		3.84	10.69	10.69	19.48	
5.5	L175070120	3.02	8.62	8.62	19.57	L205070150	4.13	12.32	12.32	20.85	
	L175070130	3.29	10.31	10.31	21.19	L205070160	4.41	13.98	13.98	22.2	
	L175070140	3.52	12.03	12.03	22.79	L205070170	4.67	15.64	15.64	23.55	
	L175070150	3.79	13.8	13.8	24.38	L205070180	4.96	17.3	17.3	24.89	
	L145070120	2.75	7.36	7.36	10.49	L205070200	5.53	20.52	20.52	27.54	
	L145070130	2.99	8.57	8.57	11.35	L235070130	3.86	9.28	9.28	24.96	
	L145070140	3.21	9.81	9.81	12.21	L235070140	4.14	11.07	11.07	26.86	
6.0	L145070150	3.45	11.07	11.07	13.06	L235070150	4.45	12.94	12.94	28.74	
	L145070160	3.69	12.33	12.33	13.9	L235070160	4.76	14.87	14.87	30.62	
	L145070180	4.15	14.82	14.82	15.57	L235070170	5.04	16.83	16.83	32.48	
	L145070200	4.63	17.21	17.02	17.2	L235070180	5.35	18.8	18.8	34.33	
	L145070220	5.06	19.47	18.74	18.84	L235070200	5.97	22.72	22.72	38.87	
	L175070120	3.02	8.13	8.13	16.17	7.0	L205070120	3.29	7.25	7.25	14.42
	L175070130	3.29	9.64	9.64	17.51		L205070130	3.58	8.67	8.67	15.62
L175070140	3.52	11.21	11.21	18.83	L205070140		3.84	10.14	10.14	16.8	
L175070150	3.79	12.81	12.81	20.15	L205070150		4.13	11.66	11.66	17.98	
L175070160	4.05	14.43	14.43	21.45	L205070160		4.41	13.19	13.19	19.15	
L175070180	4.55	17.64	17.64	22.57	L205070170		4.67	14.72	14.72	20.31	
L175070200	5.08	20.74	20.74	26.58	L205070180		4.96	16.25	16.25	21.46	
6.5	L205070200	5.53	19.22	19.22	23.75	L235070130	3.86	8.91	8.91	21.52	
	L235070130	3.86	8.91	8.91	21.52	L235070140	4.14	10.58	10.58	23.16	
	L235070140	4.14	10.58	10.58	23.16	L235070150	4.45	12.33	12.33	24.78	
	L235070150	4.45	12.94	12.94	26.4	L235070160	4.76	14.13	14.13	26.4	
	L235070160	4.76	14.87	14.87	28.01	L235070170	5.04	15.95	15.95	28.01	
	L235070170	5.04	17.78	17.78	29.6	L235070180	5.35	17.78	17.78	29.6	
	L235070180	5.35	19.63	19.63	31.26	L235070200	5.97	21.39	21.39	32.76	