

LONGSPAN STEEL JOISTS, LH-SERIES

METRIC ASD LOAD TABLE LONGSPAN STEEL JOISTS, LH-SERIES

Based on a 345 MPa Maximum Yield Strength
Adopted by the Steel Joist Institute May 2, 1994
Revised to November 10, 2003 - Effective March 01, 2005

The black figures in the following table give the TOTAL safe uniformly distributed load-carrying capacities, in kiloNewtons per meter (kN/m) of **ASD LH-Series** Steel Joists. The weight (kN/m) of the DEAD loads, including the joists, must in all cases be deducted to determine the LIVE load-carrying capacities of the joists. The approximate DEAD load of the joist may be determined from the weights shown in the tables. All loads shown are for roof construction only.

The **RED** figures in this load table are the nominal LIVE loads (kiloNewtons per meter) of joist which will produce an approximate deflection of 1/360 of the span. LIVE loads which produce a deflection of 1/240 of the span may be obtained by multiplying the **RED** figures by 1.5. In no case shall the TOTAL load capacity of the joists be exceeded.

This load table applies to joists with either parallel chords or standard pitched top chords. When top chords are pitched, the carrying capacities are determined by the nominal depth of the joist at center of the span. Standard top chord pitch is 1:96. If pitch exceeds this standard, the load table **does not** apply. Sloped parallel-chord joists shall use span as defined by the length along the slope.

Where the joist span is in the **RED SHADED** area of the load table, the row of bridging nearest the mid span shall be diagonal bridging with bolted connections at chords and intersection. Hoisting cables shall not be released until this row of bolted diagonal bridging is completely installed.

Where the joist span is in the **BLUE SHADED** area of the load table, all rows of bridging shall be diagonal bridging with bolted connections at chords and intersection. Hoisting cables shall not be released until the two rows of bridging nearest the third points are completely installed.

When holes are required in top or bottom chords, the carrying capacities must be reduced in proportion to the reduction of chord areas.

The top chords are considered as being stayed laterally by floor slab or roof deck.

The approximate joist weights (kg/m) and mass (kN/m) shown in these tables do not include accessories.

The approximate moment of inertia of the joist, in mm⁴ is: $I_j = 2.6953(W_{LL})(L^3)10^{-5}$, where W_{LL} = **RED** figure in the Load Table, and L =(span + 203) in millimeters.

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METRIC LOAD TABLE FOR LONGSPAN STEEL JOISTS, LH-SERIES																					
Based on a 345 MPa Maximum Yield Strength - Loads Shown in KiloNewtons per Meter (kN/m)																					
Joist Designation	Approx Mass (kN/m) (Joists only)	Approx Mass (kg/m) (Joists only)	Depth in (mm)	SAFELOAD* in kN Between	CLEAR SPAN (mm)																
					6401-7315	7620	7925	8230	8534	8839	9144	9449	9754	10058	10363	10668	10973				
18LH02	0.15	15	457	80.0	6.82	6.45	6.10	5.70	5.35	5.03	4.72	4.46	4.21	3.98	3.77	3.57					
					4.56	4.14	3.77	3.41	3.09	2.81	2.55	2.33	2.14	1.97	1.80	1.66					
18LH03	0.16	16	457	88.7	7.60	7.19	6.81	6.39	5.96	5.57	5.23	4.91	4.62	4.36	4.13	3.89					
					5.07	4.62	4.21	3.82	3.44	3.10	2.83	2.58	2.34	2.15	1.98	1.80					
18LH04	0.18	18	457	103.4	8.81	8.33	7.80	7.29	6.84	6.42	6.02	5.66	5.32	5.02	4.74	4.49					
					5.88	5.35	4.80	4.31	3.88	3.53	3.19	2.91	2.65	2.43	2.23	2.05					
18LH05	0.22	22	457	116.7	9.98	9.45	8.96	8.47	7.92	7.41	6.94	6.53	6.14	5.79	5.47	5.18					
					6.62	6.04	5.51	5.03	4.53	4.11	3.73	3.40	3.09	2.84	2.61	2.39					
18LH06	0.22	22	457	138.1	11.80	10.93	10.15	9.45	8.82	8.26	7.74	7.28	6.85	6.46	6.10	5.77					
					7.67	6.84	6.11	5.50	4.96	4.48	4.08	3.70	3.38	3.09	2.84	2.62					
18LH07	0.25	25	457	143.4	12.25	11.80	11.38	10.59	9.89	9.26	8.68	8.15	7.67	7.23	6.84	6.47					
					8.07	7.48	6.94	6.24	5.63	5.09	4.62	4.20	3.85	3.51	3.23	2.97					
18LH08	0.28	28	457	149.4	12.78	12.30	11.85	11.44	11.06	10.46	9.92	9.35	8.81	8.33	7.88	7.47					
					8.42	7.79	7.23	6.74	6.23	5.64	5.12	4.67	4.26	3.89	3.59	3.29					
18LH09	0.31	31	457	160.1	13.65	13.14	12.66	12.22	11.82	11.42	11.07	10.40	9.79	9.23	8.72	8.26					
					8.98	8.33	7.69	7.16	6.68	6.10	5.54	5.04	4.61	4.21	3.88	3.57					
					6706-7315	7620	7925	8230	8534	8839	9144	9449	9754	10058	10363	10668	10973	11278	11582	11887	12192
20LH02	0.15	15	508	75.3	6.45	6.37	6.28	5.98	5.66	5.32	5.02	4.74	4.48	4.24	4.01	3.82	3.63	3.45	3.28	3.13	
					4.46	4.42	4.34	3.99	3.64	3.32	3.03	2.77	2.53	2.33	2.14	1.98	1.83	1.70	1.57	1.47	
20LH03	0.16	16	508	80.0	6.84	6.75	6.68	6.59	6.33	6.04	5.76	5.42	5.13	4.85	4.61	4.36	4.13	3.92	3.72	3.54	
					4.91	4.85	4.62	4.40	4.08	3.76	3.47	3.18	2.91	2.68	2.46	2.27	2.08	1.94	1.79	1.66	
20LH04	0.18	18	508	98.0	8.37	8.26	8.14	7.70	7.23	6.81	6.42	6.07	5.73	5.42	5.15	4.88	4.64	4.42	4.21	4.01	
					6.24	5.92	5.63	5.13	4.67	4.24	3.86	3.54	3.25	2.99	2.75	2.53	2.34	2.17	2.02	1.88	
20LH05	0.20	21	508	105.4	8.98	8.88	8.78	8.68	8.33	7.93	7.48	7.06	6.68	6.33	5.99	5.69	5.41	5.15	4.90	4.68	
					6.69	6.37	6.07	5.76	5.34	4.91	4.49	4.10	3.76	3.47	3.19	2.94	2.72	2.52	2.34	2.18	
20LH06	0.22	22	508	140.7	11.99	11.54	11.13	10.55	9.90	9.26	8.69	8.17	7.69	7.25	6.84	6.47	6.14	5.82	5.53	5.26	
					8.84	8.18	7.60	6.96	6.23	5.63	5.12	4.67	4.26	3.89	3.59	3.29	3.05	2.80	2.59	2.40	
20LH07	0.25	25	508	150.1	12.81	12.33	11.87	11.47	11.09	10.37	9.73	9.15	8.61	8.11	7.67	7.25	6.87	6.52	6.20	5.89	
					9.44	8.74	8.11	7.55	7.06	6.39	5.80	5.28	4.83	4.42	4.05	3.73	3.44	3.18	2.94	2.72	
20LH08	0.28	28	508	154.7	13.25	12.74	12.28	11.86	11.45	11.09	10.53	10.02	9.54	9.06	8.58	8.14	7.73	7.34	6.99	6.66	
					9.76	9.03	8.39	7.82	7.29	6.82	6.24	5.76	5.32	4.90	4.50	4.15	3.82	3.53	3.28	3.05	
20LH09	0.31	31	508	169.4	14.44	13.90	13.39	12.93	12.49	12.08	11.70	11.35	11.01	10.39	9.82	9.28	8.80	8.34	7.93	7.54	
					10.63	9.85	9.13	8.47	7.90	7.39	6.93	6.37	5.82	5.34	4.90	4.50	4.15	3.85	3.56	3.31	
20LH10	0.34	34	508	182.8	15.58	15.00	14.46	13.95	13.48	13.04	12.62	12.24	11.87	11.54	10.91	10.31	9.77	9.28	8.81	8.39	
					11.47	10.56	9.82	9.13	8.53	7.95	7.44	6.99	6.53	5.99	5.50	5.04	4.67	4.31	3.99	3.70	



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Based on a 345 MPa Maximum Yield Strength - Loads Shown in KiloNewtons per Meter (kN/m)

Joist Designation	Approx Mass (kN/m) (Joists only)	Approx Mass (kg/m) (Joists only)	Depth in (mm)	SAFELOAD* in kN Between	CLEAR SPAN (mm)																			
					8534-9754																			
					10058	10363	10668	10973	11278	11582	11887	12192	12497	12802	13106	13411	13716	14021	14326	14630				
24LH03	0.16	16	610	51.1	4.99	4.94	4.90	4.71	4.48	4.27	4.07	3.89	3.72	3.56	3.41	3.26	3.13	3.02	2.90	2.78				
24LH04	0.18	18	610	62.7	6.11	5.80	5.53	5.25	5.00	4.77	4.55	4.34	4.15	3.98	3.82	3.66	3.51	3.37	3.23	3.12				
24LH05	0.19	19	610	67.1	6.55	6.50	6.42	6.11	5.82	5.54	5.29	5.06	4.83	4.62	4.43	4.24	4.08	3.92	3.76	3.61				
24LH06	0.23	24	610	90.2	8.81	8.44	8.09	7.73	7.35	7.00	6.66	6.37	6.08	5.82	5.56	5.31	5.07	4.87	4.67	4.48				
24LH07	0.25	25	610	99.1	9.70	9.31	8.94	8.58	8.24	7.89	7.53	7.16	6.82	6.50	6.21	5.93	5.67	5.44	5.21	5.00				
24LH08	0.26	27	610	105.8	10.31	9.88	9.47	9.07	8.71	8.34	7.95	7.58	7.25	6.93	6.64	6.34	6.08	5.83	5.60	5.38				
24LH09	0.31	31	610	124.5	12.14	11.79	11.45	11.14	10.66	10.15	9.67	9.22	8.78	8.37	7.99	7.64	7.31	7.00	6.71	6.43				
24LH10	0.34	34	610	131.6	12.87	12.49	12.14	11.80	11.49	11.20	10.75	10.24	9.74	9.29	8.87	8.49	8.11	7.77	7.45	7.15				
24LH11	0.36	37	610	138.7	13.52	13.13	12.76	12.41	12.09	11.77	11.48	11.20	10.71	10.23	9.79	9.36	8.98	8.61	8.27	7.93				
					9.10	8.58	8.09	7.66	7.26	6.88	6.55	6.10	5.66	5.26	4.91	4.59	4.29	4.02	3.77	3.54				
					10058-12192	12497	12802	13106	13411	13716	14021	14326	14630	14935	15240	15545	15850	16154	16459	16764	17069			
28LH05	0.19	19	711	62.2	4.91	4.71	4.52	4.33	4.17	4.01	3.86	3.72	3.57	3.45	3.32	3.21	3.10	3.00	2.90	2.81				
28LH06	0.23	24	711	82.7	6.53	6.26	6.01	5.76	5.53	5.31	5.10	4.91	4.72	4.56	4.39	4.24	4.10	3.95	3.82	3.69				
28LH07	0.25	25	711	93.4	7.36	7.06	6.77	6.49	6.23	5.98	5.74	5.53	5.32	5.13	4.94	4.77	4.61	4.45	4.30	4.15				
28LH08	0.26	27	711	100.0	7.88	7.54	7.23	6.93	6.65	6.39	6.12	5.88	5.64	5.41	5.21	5.02	4.83	4.65	4.49	4.33				
28LH09	0.31	31	711	123.2	9.73	9.32	8.93	8.55	8.21	7.88	7.57	7.28	7.01	6.75	6.50	6.27	6.05	5.85	5.64	5.45				
28LH10	0.34	34	711	134.7	10.63	10.27	9.90	9.50	9.12	8.75	8.40	8.08	7.77	7.48	7.22	6.96	6.71	6.47	6.26	6.05				
28LH11	0.36	37	711	144.5	11.38	11.12	10.74	10.37	9.95	9.55	9.17	8.82	8.49	8.18	7.88	7.60	7.32	7.07	6.82	6.61				
28LH12	0.39	40	711	158.8	12.50	12.21	11.93	11.67	11.41	11.17	10.75	10.34	9.95	9.57	9.22	8.88	8.56	8.26	7.96	7.69				
28LH13	0.44	45	711	165.4	13.06	12.75	12.43	12.18	11.90	11.66	11.41	11.17	10.96	10.53	10.12	9.74	9.38	9.04	8.72	8.42				
					8.30	7.92	7.55	7.22	6.88	6.59	6.31	6.05	5.77	5.44	5.13	4.84	4.58	4.33	4.10	3.88				
					11582-14021	14326-14630	14935	15240	15545	15850	16154	16459	16764	17069	17374	17678	17983	18288	18593	18898	19202	19507		
32LH06	0.20	21	813	74.2	4.93	4.75	4.59	4.43	4.29	4.14	4.01	3.88	3.75	3.63	3.53	3.41	3.31	3.21	3.12	3.03				
32LH07	0.23	24	813	83.5	5.53	5.34	5.15	4.97	4.80	4.64	4.49	4.34	4.20	4.07	3.95	3.82	3.70	3.60	3.50	3.40				
32LH08	0.25	25	813	90.7	5.99	5.79	5.58	5.38	5.21	5.03	4.85	4.69	4.55	4.40	4.27	4.14	4.01	3.89	3.77	3.67				
32LH09	0.31	31	813	113.8	7.53	7.26	7.00	6.75	6.52	6.30	6.10	5.89	5.70	5.53	5.35	5.19	5.03	4.88	4.74	4.59				
32LH10	0.31	31	813	125.8	8.33	8.02	7.74	7.47	7.22	6.97	6.74	6.49	6.27	6.07	5.86	5.67	5.48	5.31	5.15	4.99				
32LH11	0.35	36	813	137.8	9.12	8.78	8.46	8.17	7.89	7.61	7.36	7.12	6.90	6.68	6.46	6.26	6.07	5.88	5.69	5.51				
32LH12	0.39	40	813	161.9	10.71	10.39	10.04	9.69	9.35	9.03	8.72	8.43	8.15	7.89	7.64	7.41	7.18	6.96	6.75	6.55				
32LH13	0.44	45	813	180.5	11.92	11.68	11.45	11.25	10.82	10.43	10.06	9.71	9.38	9.06	8.75	8.47	8.20	7.93	7.69	7.45				
32LH14	0.48	49	813	185.9	12.30	12.05	11.82	11.60	11.38	11.17	10.77	10.40	10.04	9.70	9.38	9.07	8.78	8.50	8.23	7.98				
32LH15	0.51	52	813	192.1	12.69	12.44	12.21	11.98	11.74	11.54	11.32	11.13	10.94	10.58	10.23	9.89	9.57	9.26	8.98	8.71				
					7.76	7.45	7.18	6.90	6.62	6.39	6.15	5.93	5.73	5.45	5.18	4.93	4.69	4.46	4.26	4.07				
					12802-14021	14326-17069	17374	17678	17983	18288	18593	18898	19202	19507	19812	20117	20422	20726	21031	21336	21641	21946		
36LH07	0.23	24	914	74.7	4.26	4.13	3.99	3.88	3.76	3.66	3.56	3.45	3.35	3.26	3.18	3.09	3.02	2.93	2.86	2.78				
36LH08	0.26	27	914	82.2	4.68	4.53	4.40	4.27	4.14	4.02	3.91	3.79	3.69	3.59	3.48	3.40	3.31	3.22	3.13	3.05				
36LH09	0.31	31	914	105.4	5.99	5.80	5.63	5.45	5.29	5.13	4.99	4.85	4.71	4.58	4.46	4.33	4.21	4.11	4.01	3.89				
36LH10	0.31	31	914	116.0	6.62	6.42	6.21	6.02	5.85	5.67	5.51	5.35	5.21	5.06	4.93	4.78	4.67	4.53	4.42	4.30				
36LH11	0.34	34	914	126.7	7.22	7.00	6.78	6.58	6.39	6.20	6.01	5.85	5.67	5.51	5.37	5.22	5.07	4.94	4.81	4.69				
36LH12	0.36	37	914	151.6	8.65	8.39	8.12	7.88	7.63	7.41	7.19	6.97	6.77	6.56	6.37	6.18	6.01	5.83	5.67	5.51				
36LH13	0.44	45	914	178.3	10.17	9.85	9.54	9.25	8.97	8.69	8.44	8.20	7.96	7.74	7.53	7.32	7.12	6.93	6.75	6.58				
36LH14	0.53	54	914	196.6	11.20	11.01	10.63	10.30	9.96	9.64	9.35	9.06	8.78	8.52	8.27	8.04	7.80	7.58	7.36	7.18				
36LH15	0.53	54	914	207.2	11.80	11.60	11.39	11.22	10.85	10.52	10.18	9.88	9.57	9.29	9.01	8.75	8.50	8.27	8.04	7.82				
					7.00	6.77	6.53	6.33	6.02	5.74	5.47	5.22	4.99	4.77	4.55	4.36	4.17	3.99	3.83	3.67				



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Joist Designation	Approx Mass (kN/m) (Joists only)	Approx Mass (kg/m) (Joists only)	Depth in (mm)	SAFELOAD* in kN Between		CLEAR SPAN (mm)																
				14326-17983	18288-19507	19812	20117	20422	20726	21031	21336	21641	21946	22250	22555	22860	23165	23470	23774	24079	24384	
				73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
40LH08	0.23	24	1016	73.8	73.8	3.70	3.60	3.51	3.41	3.32	3.23	3.16	3.07	3.00	2.93	2.86	2.80	2.72	2.67	2.59	2.53	
40LH09	0.31	31	1016	96.9	96.9	4.84	4.71	4.59	4.46	4.34	4.24	4.13	4.02	3.92	3.83	3.73	3.64	3.56	3.48	3.40	3.32	
40LH10	0.31	31	1016	106.7	106.7	5.35	5.21	5.06	4.93	4.80	4.68	4.56	4.45	4.33	4.23	4.13	4.02	3.92	3.82	3.72	3.63	
40LH11	0.32	33	1016	116.5	116.5	5.82	5.66	5.51	5.37	5.22	5.09	4.96	4.84	4.71	4.59	4.49	4.37	4.27	4.17	4.07	3.98	
40LH12	0.36	37	1016	141.8	141.8	7.09	6.88	6.69	6.52	6.34	6.18	6.02	5.86	5.72	5.57	5.44	5.31	5.18	5.04	4.93	4.81	
40LH13	0.44	45	1016	167.2	167.2	8.36	8.12	7.90	7.70	7.50	7.29	7.10	6.93	6.75	6.58	6.42	6.26	6.11	5.96	5.82	5.69	
40LH14	0.51	52	1016	191.2	191.2	9.57	9.31	9.04	8.80	8.56	8.33	8.11	7.90	7.70	7.51	7.32	7.15	6.97	6.80	6.64	6.47	
40LH15	0.53	54	1016	213.9	213.9	10.71	10.39	10.08	9.79	9.51	9.23	8.98	8.74	8.50	8.27	8.05	7.85	7.64	7.45	7.26	7.09	
40LH16	0.61	63	1016	235.7	235.7	11.79	11.61	11.44	11.26	11.10	10.96	10.65	10.36	10.08	9.82	9.55	9.31	9.07	8.84	8.62	8.40	
						6.84	6.64	6.43	6.24	6.07	5.89	5.64	5.41	5.19	4.99	4.80	4.61	4.43	4.26	4.11	3.95	
						22250	22555	22860	23165	23470	23774	24079	24384	24689	24994	25298	25603	25908	26213	26518	26822	
44LH09	0.28	28	1118	88.9	88.9	3.96	3.86	3.77	3.69	3.60	3.53	3.44	3.37	3.29	3.22	3.15	3.07	3.02	2.94	2.88	2.83	
44LH10	0.31	31	1118	98.3	98.3	4.37	4.27	4.17	4.07	3.96	3.88	3.79	3.70	3.63	3.54	3.47	3.40	3.32	3.25	3.18	3.12	
44LH11	0.32	33	1118	106.3	106.3	4.74	4.62	4.52	4.40	4.30	4.21	4.11	4.02	3.92	3.85	3.76	3.67	3.60	3.53	3.44	3.38	
44LH12	0.36	37	1118	131.6	131.6	5.86	5.73	5.58	5.45	5.32	5.19	5.06	4.94	4.83	4.71	4.59	4.49	4.37	4.27	4.18	4.08	
44LH13	0.44	45	1118	156.1	156.1	6.96	6.80	6.62	6.47	6.31	6.17	6.02	5.89	5.76	5.63	5.50	5.38	5.26	5.15	5.04	4.93	
44LH14	0.45	46	1118	179.7	179.7	8.01	7.79	7.58	7.38	7.19	7.01	6.84	6.66	6.50	6.36	6.20	6.05	5.92	5.77	5.64	5.53	
44LH15	0.53	54	1118	209.0	209.0	9.32	9.09	8.87	8.65	8.44	8.24	8.04	7.83	7.64	7.47	7.29	7.12	6.94	6.80	6.64	6.49	
44LH16	0.61	63	1118	241.0	241.0	10.75	10.49	10.23	9.98	9.74	9.51	9.29	9.07	8.87	8.66	8.46	8.28	8.09	7.92	7.74	7.58	
44LH17	0.69	70	1118	258.8	258.8	11.52	11.38	11.22	11.07	10.94	10.68	10.43	10.20	9.96	9.73	9.51	9.31	9.10	8.90	8.71	8.52	
						6.56	6.39	6.21	6.05	5.91	5.69	5.48	5.29	5.12	4.93	4.77	4.61	4.45	4.30	4.15	4.02	
						24689	24994	25298	25603	25908	26213	26518	26822	27127	27432	27737	28042	28346	28651	28956	29261	
48LH10	0.31	31	1219	88.9	88.9	3.59	3.51	3.44	3.37	3.29	3.22	3.16	3.09	3.03	2.97	2.91	2.86	2.80	2.74	2.69	2.64	
48LH11	0.32	33	1219	96.5	96.5	3.88	3.79	3.72	3.63	3.56	3.48	3.41	3.34	3.28	3.21	3.15	3.09	3.03	2.97	2.91	2.86	
48LH12	0.36	37	1219	121.8	121.8	4.90	4.80	4.69	4.59	4.49	4.39	4.30	4.21	4.13	4.04	3.96	3.88	3.80	3.73	3.66	3.59	
48LH13	0.42	43	1219	145.9	145.9	5.86	5.73	5.60	5.48	5.37	5.25	5.15	5.03	4.93	4.84	4.74	4.64	4.55	4.46	4.37	4.29	
48LH14	0.47	48	1219	172.1	172.1	6.93	6.77	6.62	6.47	6.33	6.20	6.07	5.93	5.82	5.69	5.58	5.47	5.35	5.25	5.15	5.04	
48LH15	0.53	54	1219	197.9	197.9	7.95	7.77	7.60	7.44	7.28	7.12	6.97	6.82	6.68	6.53	6.40	6.27	6.15	6.02	5.91	5.79	
48LH16	0.61	63	1219	228.1	228.1	9.17	8.97	8.77	8.58	8.40	8.21	8.04	7.88	7.70	7.55	7.39	7.25	7.10	6.96	6.82	6.69	
48LH17	0.69	70	1219	256.2	256.2	10.30	10.06	9.85	9.63	9.42	9.22	9.03	8.84	8.65	8.47	8.30	8.14	7.98	7.82	7.66	7.51	
						5.79	5.58	5.41	5.22	5.04	4.88	4.72	4.58	4.43	4.29	4.15	4.02	3.91	3.79	3.67	3.57	

* The safe uniform load for the clear spans shown in the Safe Load Column is equal to (Safe Load) / (Clear span + 203). (The added 203 millimeters is required to obtain the proper length on which the Load Tables were developed).

In no case shall the safe uniform load, for clear spans less than the minimum clear span shown in the Safe Load Column, exceed the uniform load calculated for the minimum clear span listed in the Safe Load Column.

To solve for *live* loads for clear spans shown in the Safe Load Column (or lesser clear spans), multiply the live load of the shortest clear span shown in the Load Table by the (the shortest clear span shown in the Load Table + 203 mm)² and divide by (the actual clear span + 203 mm)². The live load shall *not* exceed the safe uniform load.

