

Steel Joist Institute 42nd Edition Catalog

First Printing – December 2005

Standard Specifications, Load Tables and Weight Tables for Steel Joists and Joist Girders

K-Series

LH-Series

DLH-Series

Joist Girders

This document containing the errata to the Steel Joist Institute 42nd Edition Catalog will be periodically updated as needed and posted on the SJI website at www.steeljoist.org. The errata are organized by date in descending order (most recent to furthest past) hence regular users of this document need only review the errata posted since their previous use.

First Errata Posted on December 4, 2006
Second Errata Posted on February 16, 2007
Third Errata Posted on June 29, 2007

The Load Tables on Pages 61 and 71 are being replaced. The SAFELOAD values were not factored for LRFD. Their corresponding Pages 64 and 74, respectively in ASD have the correct SAFELOAD values.

Replace the Load Table on Page 61 LRFD STANDARD LOAD TABLE FOR LONGSPAN STEEL JOISTS, LH-SERIES Based on a 50 ksi Maximum Yield Strength in its entirety and replace with the following Load Table.

Replace the Load Table on Page 71 LRFD STANDARD LOAD TABLE FOR LONGSPAN STEEL JOISTS, LH-SERIES Based on a 345 MPa Maximum Yield Strength in its entirety and replace with the following Load Table.

LRFD

STANDARD LOAD TABLE FOR LONGSPAN STEEL JOISTS, LH-SERIES																			
Based on a 50 ksi Maximum Yield Strength - Loads Shown in Pounds Per Lineal Foot (plf)																			
Joist Designation	Approx. Wt in Lbs. Per Linear Ft (Joists only)	Depth in inches	SAFE LOAD* in Lbs. Between	CLEAR SPAN IN FEET															
				21-24	25	26	27	28	29	30	31	32	33	34	35	36			
18LH02	10	18	18000	702	663	627	586	550	517	486	459	433	409	388	367				
18LH03	11	18	19950	781	739	700	657	613	573	538	505	475	448	424	400				
18LH04	12	18	23250	906	856	802	750	703	660	619	582	547	516	487	462				
18LH05	15	18	26250	1026	972	921	871	814	762	714	672	631	595	562	532				
18LH06	15	18	31050	1213	1123	1044	972	907	849	796	748	705	664	627	594				
18LH07	17	18	32250	1260	1213	1170	1089	1017	952	892	838	789	744	703	666				
18LH08	19	18	33600	1314	1264	1218	1176	1137	1075	1020	961	906	856	810	768				
18LH09	21	18	36000	1404	1351	1302	1257	1215	1174	1138	1069	1006	949	897	849				
			21-24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
20LH02	10	20	16950	663	655	646	615	582	547	516	487	460	436	412	393	373	355	337	322
20LH03	11	20	18000	703	694	687	678	651	621	592	558	528	499	474	448	424	403	382	364
20LH04	12	20	22050	861	849	837	792	744	700	660	624	589	558	529	502	477	454	433	412
20LH05	14	20	23700	924	913	903	892	856	816	769	726	687	651	616	585	556	529	504	481
20LH06	15	20	31650	1233	1186	1144	1084	1018	952	894	840	790	745	703	666	631	598	568	541
20LH07	17	20	33750	1317	1267	1221	1179	1140	1066	1000	940	885	834	789	745	706	670	637	606
20LH08	19	20	34800	1362	1309	1263	1219	1177	1140	1083	1030	981	931	882	837	795	754	718	685
20LH09	21	20	38100	1485	1429	1377	1329	1284	1242	1203	1167	1132	1068	1009	954	904	858	816	775
20LH10	23	20	41100	1602	1542	1486	1434	1386	1341	1297	1258	1221	1186	1122	1060	1005	954	906	862



LRFD

METRIC LOAD TABLE FOR LONGSPAN STEEL JOISTS, LH-SERIES																				
Based on a 345 MPa Maximum Yield Strength - Loads Shown In kilo Newtons 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	120.0	10.24	9.67	9.15	8.56	8.03	7.55	7.09	6.69	6.32	5.97	5.66	5.36				
18LH03	0.16	16	457	133.1	4.56	4.14	3.77	3.41	3.09	2.81	2.56	2.33	2.14	1.97	1.80	1.66				
18LH04	0.18	18	457	155.1	5.07	4.62	4.21	3.82	3.44	3.10	2.83	2.58	2.34	2.15	1.98	1.80				
18LH05	0.22	22	457	175.1	13.22	12.49	11.71	10.94	10.26	9.63	9.04	8.49	7.99	7.53	7.11	6.74				
18LH06	0.22	22	457	207.2	5.88	5.35	4.80	4.31	3.88	3.53	3.19	2.91	2.65	2.43	2.23	2.05				
18LH07	0.25	25	457	215.1	14.97	14.18	13.44	12.71	11.88	11.12	10.42	9.80	9.21	8.69	8.20	7.77				
18LH08	0.28	28	457	224.1	17.70	16.39	15.23	14.18	13.24	12.39	11.62	10.92	10.28	9.69	9.15	8.66				
18LH09	0.31	31	457	240.2	7.67	6.84	6.11	5.50	4.96	4.48	4.08	3.70	3.38	3.09	2.84	2.62				
					18.38	17.70	17.07	15.89	14.84	13.90	13.02	12.23	11.51	10.85	10.26	9.71				
					8.07	7.48	6.94	6.24	5.63	5.09	4.62	4.20	3.85	3.51	3.23	2.97				
					19.17	18.45	17.77	17.16	16.59	15.69	14.88	14.03	13.22	12.49	11.82	11.20				
					8.42	7.79	7.23	6.74	6.23	5.64	5.12	4.67	4.26	3.89	3.59	3.29				
					20.48	19.72	19.00	18.34	17.73	17.14	16.61	15.60	14.68	13.85	13.09	12.39				
					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			
20LH02	0.15	15	508	113.0	9.67	9.56	9.43	8.97	8.49	7.99	7.53	7.11	6.72	6.37	6.01	5.73	5.45	5.18	4.92	4.70
20LH03	0.16	16	508	120.0	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
20LH04	0.18	18	508	147.0	10.26	10.13	10.02	9.89	9.50	9.06	8.64	8.14	7.70	7.28	6.91	6.54	6.19	5.88	5.58	5.31
20LH05	0.20	21	508	158.1	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
20LH06	0.22	22	508	211.1	12.56	12.39	12.21	11.55	10.85	10.22	9.63	9.10	8.60	8.14	7.72	7.33	6.96	6.63	6.32	6.01
20LH07	0.25	25	508	225.2	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
20LH08	0.28	28	508	232.1	13.48	13.33	13.17	13.02	12.49	11.90	11.23	10.59	10.02	9.50	8.99	8.53	8.12	7.72	7.35	7.02
20LH09	0.31	31	508	254.1	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
20LH10	0.34	34	508	274.2	17.99	17.31	16.70	15.82	14.86	13.90	13.04	12.25	11.53	10.87	10.26	9.71	9.21	8.73	8.29	7.90
					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
					19.22	18.49	17.81	17.20	16.63	15.56	14.60	13.72	12.91	12.17	11.51	10.87	10.31	9.78	9.30	8.84
					9.44	8.74	8.11	7.65	7.06	6.39	5.80	5.28	4.83	4.42	4.05	3.73	3.44	3.18	2.94	2.72
					19.87	19.11	18.43	17.79	17.18	16.63	15.80	15.03	14.31	13.59	12.87	12.21	11.60	11.01	10.48	10.00
					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
					21.67	20.86	20.09	19.39	18.73	18.12	17.55	17.03	16.52	15.88	14.73	13.92	13.20	12.52	11.90	11.31
					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
					23.37	22.50	21.69	20.92	20.22	19.57	18.93	18.36	17.81	17.31	16.37	15.47	14.66	13.92	13.22	12.58
					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

