



STANDARD LOAD TABLE

OPEN WEB STEEL JOISTS, H-SERIES

Allowable Total Safe Loads in Pounds Per Linear Foot of H-SERIES Steel Joists — *For Joist Depths 8" to 14" inclusive.

The black figures in the following table give the TOTAL safe uniformly-distributed load-carrying capacities, in pounds per linear foot, of H-Series High Strength Steel Joists adopted by the Steel Joist Institute. The weight of DEAD loads, including the joists, must in all cases be deducted to determine the LIVE load-carrying capacities of the joists. The figures shown in blue in this load table are the LIVE loads per linear foot of joist which will produce an approximate deflection of 1/360 of the span. LIVE loads which will produce a deflection of 1/240 of the span may be obtained by multiplying the figures in blue by 1.5. In no case shall the total load capacity of the joist be exceeded.**

** — Section 5.9 of the "Specifications for Open Web High Strength Steel Joists, H-Series" limits the design LIVE load deflection as follows:
 Floors — 1/360 of span. Roofs — 1/360 of span where a plaster ceiling is attached or suspended; 1/240 of span for all other cases.

Joist Designation	8H2	10H2	10H3	10H4	12H2	12H3	12H4	12H5	12H6	14H3	14H4	14H5	14H6	14H7
Resisting Moment In Inch-Pounds	73,000	91,000	116,000	148,000	111,000	140,000	180,000	222,000	260,000	165,000	212,000	259,000	307,000	369,000
Maximum End Reaction In Pounds	2000	2200	2500	2800	2400	2800	3200	3600	3900	3200	3500	3800	4200	4600
† Approximate Weight in Pounds per Foot	4.2	4.2	5.0	6.1	4.5	5.2	6.2	7.1	8.2	5.5	6.5	7.4	8.6	10.0
Span in Feet	8	10	10	10	12	12	12	12	12	14	14	14	14	14
9	444	440	500	560										
10	400	400	455	509										
11	364	400	455	509										
12	333	367	417	467	400	467	533	600	650					
13	288	338	385	431	369	431	492	554	600					
14	248	310	357	400	343	400	457	514	557	457	500	543	600	657
15	216	270	333	373	320	373	427	480	520	427	467	507	560	613
16	190	237	302	350	289	350	400	450	488	400	438	475	525	575
17	168	210	268	329	256	323	376	424	459	376	412	447	494	541
18	147	187	239	305	228	288	356	400	433	340	389	422	467	511
19	126	168	214	273	205	259	332	379	411	305	368	400	442	484
20	105	152	193	247	185	233	300	360	390	275	350	380	420	460
21	82	126	176	226	168	212	272	336	371	249	320	362	400	438
22		96	141	187	141	179	217	263	313	183	248	270	323	375
23		113	154	200	154	194	232	280	326	159	212	235	281	326
24		126	169	217	170	212	258	306	355	194	258	281	326	375
25		144	193	247	185	233	300	360	411	208	272	306	365	400
26		168	214	273	205	259	332	379	411	191	245	280	326	365
27		190	237	302	228	288	356	400	433	140	169	205	246	286
28		216	270	333	248	300	367	424	459	123	149	181	217	251
		248	310	385	289	350	427	480	520	109	132	160	191	222
		288	367	467	343	431	514	554	600	96	117	142	170	198
		338	431	533	385	492	594	650	700	86	104	127	152	176
		385	492	600	431	533	635	680	720	77	94	114	136	158
		431	533	635	492	594	696	740	780					
		492	594	696	533	635	737	780	820					
		533	635	737	594	696	798	840	880					
		594	696	798	635	737	839	880	920					
		635	737	839	696	798	898	940	980					
		696	798	898	737	839	939	980	1020					
		737	839	939	798	898	998	1040	1080					
		798	898	998	839	939	1039	1080	1120					
		839	939	1039	898	998	1098	1140	1180					
		898	998	1098	939	1039	1139	1180	1220					
		939	1039	1139	998	1098	1198	1240	1280					
		998	1098	1198	1039	1139	1239	1280	1320					
		1039	1139	1239	1098	1198	1298	1340	1380					
		1098	1198	1298	1139	1239	1339	1380	1420					
		1139	1239	1339	1198	1298	1398	1440	1480					
		1198	1298	1398	1239	1339	1439	1480	1520					
		1239	1339	1439	1298	1398	1498	1540	1580					
		1298	1398	1498	1339	1439	1539	1580	1620					
		1339	1439	1539	1398	1498	1598	1640	1680					
		1398	1498	1598	1439	1539	1639	1680	1720					
		1439	1539	1639	1498	1598	1698	1740	1780					
		1498	1598	1698	1539	1639	1739	1780	1820					
		1539	1639	1739	1598	1698	1798	1840	1880					
		1598	1698	1798	1639	1739	1839	1880	1920					
		1639	1739	1839	1698	1798	1898	1940	1980					
		1698	1798	1898	1739	1839	1939	1980	2020					
		1739	1839	1939	1798	1898	1998	2040	2080					
		1798	1898	1998	1839	1939	2039	2080	2120					
		1839	1939	2039	1898	1998	2098	2140	2180					
		1898	1998	2098	1939	2039	2139	2180	2220					
		1939	2039	2139	1998	2098	2198	2240	2280					
		1998	2098	2198	2039	2139	2239	2280	2320					
		2039	2139	2239	2098	2198	2298	2340	2380					
		2098	2198	2298	2139	2239	2339	2380	2420					
		2139	2239	2339	2198	2298	2398	2440	2480					
		2198	2298	2398	2239	2339	2439	2480	2520					
		2239	2339	2439	2298	2398	2498	2540	2580					
		2298	2398	2498	2339	2439	2539	2580	2620					
		2339	2439	2539	2398	2498	2598	2640	2680					
		2398	2498	2598	2439	2539	2639	2680	2720					
		2439	2539	2639	2498	2598	2698	2740	2780					
		2498	2598	2698	2539	2639	2739	2780	2820					
		2539	2639	2739	2598	2698	2798	2840	2880					
		2598	2698	2798	2639	2739	2839	2880	2920					
		2639	2739	2839	2698	2798	2898	2940	2980					
		2698	2798	2898	2739	2839	2939	2980	3020					
		2739	2839	2939	2798	2898	2998	3040	3080					
		2798	2898	2998	2839	2939	3039	3080	3120					
		2839	2939	3039	2898	2998	3098	3140	3180					
		2898	2998	3098	2939	3039	3139	3180	3220					
		2939	3039	3139	2998	3098	3198	3240	3280					
		2998	3098	3198	3039	3139	3239	3280	3320					
		3039	3139	3239	3098	3198	3298	3340	3380					
		3098	3198	3298	3139	3239	3339	3380	3420					
		3139	3239	3339	3198	3298	3398	3440	3480					
		3198	3298	3398	3239	3339	3439	3480	3520					
		3239	3339	3439	3298	3398	3498	3540	3580					
		3298	3398	3498	3339	3439	3539	3580	3620					
		3339	3439	3539	3398	3498	3598	3640	3680					
		3398	3498	3598	3439	3539	3639	3680	3720					
		3439	3539	3639	3498	3598	3698	3740	3780					
		3498	3598	3698	3539	3639	3739	3780	3820					
		3539	3639	3739	3598	3698	3798	3840	3880					
		3598	3698	3798	3639	3739	3839	3880	3920					
		3639	3739	3839	3698	3798	3898	3940	3980					
		3698												

OPEN WEB STEEL JOISTS, H-SERIES

Allowable Total Safe Loads in Pounds Per Linear Foot of H-SERIES Steel Joists — *For Joist Depths 16" to 24" Inclusive.

Joist Designation	18H4	18H5	18H6	18H7	18H8	18H9	18H8	18H7	18H6	18H5	18H4	20H4	20H5	20H6	20H7	20H8	20H9	22H4	22H5	22H6	22H7	22H8	22H9	24H4	24H5	24H6	24H7	24H8	24H9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Resisting Moment In Inch-Pounds	221,000	289,000	344,000	413,000	478,000	543,000	608,000	673,000	738,000	803,000	868,000	933,000	998,000	1,063,000	1,128,000	1,193,000	1,258,000	1,323,000	1,388,000	1,453,000	1,518,000	1,583,000	1,648,000	1,713,000	1,778,000	1,843,000	1,908,000	1,973,000	2,038,000	2,103,000	2,168,000	2,233,000	2,298,000	2,363,000	2,428,000	2,493,000	2,558,000	2,623,000	2,688,000	2,753,000	2,818,000	2,883,000	2,948,000	3,013,000	3,078,000	3,143,000	3,208,000	3,273,000	3,338,000	3,403,000	3,468,000	3,533,000	3,598,000	3,663,000	3,728,000	3,793,000	3,858,000	3,923,000	3,988,000	4,053,000	4,118,000	4,183,000	4,248,000	4,313,000	4,378,000	4,443,000	4,508,000	4,573,000	4,638,000	4,703,000	4,768,000	4,833,000	4,898,000	4,963,000	5,028,000	5,093,000	5,158,000	5,223,000	5,288,000	5,353,000	5,418,000	5,483,000	5,548,000	5,613,000	5,678,000	5,743,000	5,808,000	5,873,000	5,938,000	6,003,000	6,068,000	6,133,000	6,198,000	6,263,000	6,328,000	6,393,000	6,458,000	6,523,000	6,588,000	6,653,000	6,718,000	6,783,000	6,848,000	6,913,000	6,978,000	7,043,000	7,108,000	7,173,000	7,238,000	7,303,000	7,368,000	7,433,000	7,498,000	7,563,000	7,628,000	7,693,000	7,758,000	7,823,000	7,888,000	7,953,000	8,018,000	8,083,000	8,148,000	8,213,000	8,278,000	8,343,000	8,408,000	8,473,000	8,538,000	8,603,000	8,668,000	8,733,000	8,798,000	8,863,000	8,928,000	8,993,000	9,058,000	9,123,000	9,188,000	9,253,000	9,318,000	9,383,000	9,448,000	9,513,000	9,578,000	9,643,000	9,708,000	9,773,000	9,838,000	9,903,000	9,968,000	10,033,000	10,098,000	10,163,000	10,228,000	10,293,000	10,358,000	10,423,000	10,488,000	10,553,000	10,618,000	10,683,000	10,748,000	10,813,000	10,878,000	10,943,000	11,008,000	11,073,000	11,138,000	11,203,000	11,268,000	11,333,000	11,398,000	11,463,000	11,528,000	11,593,000	11,658,000	11,723,000	11,788,000	11,853,000	11,918,000	11,983,000	12,048,000	12,113,000	12,178,000	12,243,000	12,308,000	12,373,000	12,438,000	12,503,000	12,568,000	12,633,000	12,698,000	12,763,000	12,828,000	12,893,000	12,958,000	13,023,000	13,088,000	13,153,000	13,218,000	13,283,000	13,348,000	13,413,000	13,478,000	13,543,000	13,608,000	13,673,000	13,738,000	13,803,000	13,868,000	13,933,000	13,998,000	14,063,000	14,128,000	14,193,000	14,258,000	14,323,000	14,388,000	14,453,000	14,518,000	14,583,000	14,648,000	14,713,000	14,778,000	14,843,000	14,908,000	14,973,000	15,038,000	15,103,000	15,168,000	15,233,000	15,298,000	15,363,000	15,428,000	15,493,000	15,558,000	15,623,000	15,688,000	15,753,000	15,818,000	15,883,000	15,948,000	16,013,000	16,078,000	16,143,000	16,208,000	16,273,000	16,338,000	16,403,000	16,468,000	16,533,000	16,598,000	16,663,000	16,728,000	16,793,000	16,858,000	16,923,000	16,988,000	17,053,000	17,118,000	17,183,000	17,248,000	17,313,000	17,378,000	17,443,000	17,508,000	17,573,000	17,638,000	17,703,000	17,768,000	17,833,000	17,898,000	17,963,000	18,028,000	18,093,000	18,158,000	18,223,000	18,288,000	18,353,000	18,418,000	18,483,000	18,548,000	18,613,000	18,678,000	18,743,000	18,808,000	18,873,000	18,938,000	19,003,000	19,068,000	19,133,000	19,198,000	19,263,000	19,328,000	19,393,000	19,458,000	19,523,000	19,588,000	19,653,000	19,718,000	19,783,000	19,848,000	19,913,000	19,978,000	20,043,000	20,108,000	20,173,000	20,238,000	20,303,000	20,368,000	20,433,000	20,498,000	20,563,000	20,628,000	20,693,000	20,758,000	20,823,000	20,888,000	20,953,000	21,018,000	21,083,000	21,148,000	21,213,000	21,278,000	21,343,000	21,408,000	21,473,000	21,538,000	21,603,000	21,668,000	21,733,000	21,798,000	21,863,000	21,928,000	21,993,000	22,058,000	22,123,000	22,188,000	22,253,000	22,318,000	22,383,000	22,448,000	22,513,000	22,578,000	22,643,000	22,708,000	22,773,000	22,838,000	22,903,000	22,968,000	23,033,000	23,098,000	23,163,000	23,228,000	23,293,000	23,358,000	23,423,000	23,488,000	23,553,000	23,618,000	23,683,000	23,748,000	23,813,000	23,878,000	23,943,000	24,008,000	24,073,000	24,138,000	24,203,000	24,268,000	24,333,000	24,398,000	24,463,000	24,528,000	24,593,000	24,658,000	24,723,000	24,788,000	24,853,000	24,918,000	24,983,000	25,048,000	25,113,000	25,178,000	25,243,000	25,308,000	25,373,000	25,438,000	25,503,000	25,568,000	25,633,000	25,698,000	25,763,000	25,828,000	25,893,000	25,958,000	26,023,000	26,088,000	26,153,000	26,218,000	26,283,000	26,348,000	26,413,000	26,478,000	26,543,000	26,608,000	26,673,000	26,738,000	26,803,000	26,868,000	26,933,000	27,000,000	27,065,000	27,130,000	27,195,000	27,260,000	27,325,000	27,390,000	27,455,000	27,520,000	27,585,000	27,650,000	27,715,000	27,780,000	27,845,000	27,910,000	27,975,000	28,040,000	28,105,000	28,170,000	28,235,000	28,300,000	28,365,000	28,430,000	28,495,000	28,560,000	28,625,000	28,690,000	28,755,000	28,820,000	28,885,000	28,950,000	29,015,000	29,080,000	29,145,000	29,210,000	29,275,000	29,340,000	29,405,000	29,470,000	29,535,000	29,600,000	29,665,000	29,730,000	29,795,000	29,860,000	29,925,000	29,990,000	30,055,000	30,120,000	30,185,000	30,250,000	30,315,000	30,380,000	30,445,000	30,510,000	30,575,000	30,640,000	30,705,000	30,770,000	30,835,000	30,900,000	30,965,000	31,030,000	31,095,000	31,160,000	31,225,000	31,290,000	31,355,000	31,420,000	31,485,000	31,550,000	31,615,000	31,680,000	31,745,000	31,810,000	31,875,000	31,940,000	32,005,000	32,070,000	32,135,000	32,200,000	32,265,000	32,330,000	32,395,000	32,460,000	32,525,000	32,590,000	32,655,000	32,720,000	32,785,000	32,850,000	32,915,000	32,980,000	33,045,000	33,110,000	33,175,000	33,240,000	33,305,000	33,370,000	33,435,000	33,500,000	33,565,000	33,630,000	33,695,000	33,760,000	33,825,000	33,890,000	33,955,000	34,020,000	34,085,000	34,150,000	34,215,000	34,280,000	34,345,000	34,410,000	34,475,000	34,540,000	34,605,000	34,670,000	34,735,000	34,800,000	34,865,000	34,930,000	34,995,000	35,060,000	35,125,000	35,190,000	35,255,000	35,320,000	35,385,000	35,450,000	35,515,000	35,580,000	35,645,000	35,710,000	35,775,000	35,840,000	35,905,000	35,970,000	36,035,000	36,100,000	36,165,000	36,230,000	36,295,000	36,360,000	36,425,000	36,490,000	36,555,000	36,620,000	36,685,000	36,750,000	36,815,000	36,880,000	36,945,000	37,010,000	37,075,000	37,140,000	37,205,000	37,270,000	37,335,000	37,400,000	37,465,000	37,530,000	37,595,000	37,660,000	37,725,000	37,790,000	37,855,000	37,920,000	37,985,000	38,050,000	38,115,000	38,180,000	38,245,000	38,310,000	38,375,000	38,440,000	38,505,000	38,570,000	38,635,000	38,700,000	38,765,000	38,830,000	38,895,000	38,960,000	39,025,000	39,090,000	39,155,000	39,220,000	39,285,000	39,350,000	39,415,000	39,480,000	39,545,000	39,610,000	39,675,000	39,740,000	39,805,000	39,870,000	39,935,000	40,000,000	40,065,000	40,130,000	40,195,000	40,260,000	40,325,000	40,390,000	40,455,000	40,520,000	40,585,000	40,650,000	40,715,000	40,780,000	40,845,000	40,910,000	40,975,000	41,040,000	41,105,000	41,170,000	41,235,000	41,300,000	41,365,000	41,430,000	41,495,000	41,560,000	41,625,000	41,690,000	41,755,000	41,820,000	41,885,000	41,950,000	42,015,000	42,080,000	42,145,000	42,210,000	42,275,000	42,340,000	42,405,000	42,470,000	42,535,000	42,600,000	42,665,000	42,730,000	42,795,000	42,860,000	42,925,000	42,990,000	43,055,000	43,120,000	43,185,000	43,250,000	43,315,000	43,380,000	43,445,000	43,510,000	43,575,000	43,640,000	43,705,000	43,770,000	43,835,000	43,900,000	43,965,000	44,030,000	44,095,000	44,160,000	44,225,000	44,290,000	44,355,000	44,420,000	44,485,000	44,550,000	44,615,000	44,680,000	44,745,000	44,810,000	44,875,000	44,940,000	45,005,000	45,070,000	45,135,000	45,200,000	45,265,000	45,330,000	45,395,000	45,460,000	45,525,000	45,590,000	45,655,000	45,720,000	45,785,000	45,850,000	45,915,000	45,980,000	46,045,000	46,110,000	46,175,000	46,240,000	46,305,000	46,370,000	46,435,000	46,500,000	46,565,000	46,630,000	46,695,000	46,760,000	46,825,000	46,890,000	46,955,000	47,020,000	47,085,000	47,150,000	47,215,000	47,280,000	47,345,000	47,410,000	47,475,000	47,540,000	47,605,000	47,670,000	47,735,000	47,800,000	47,865,000	47,930,000	47,995,000	48,060,000	48,125,000	48,190,000	48,255,000	48,320,000	48,385,000	48,450,000	48,515,000	48,580,000	48,645,000	48,710,000	48,775,000	48,840,000	48,905,000	48,970,000	49,035,000	49,100,000	49,165,000	49,23