

**Steel Joist Institute**  
**45<sup>th</sup> Edition**  
**SJI 100-2020**  
**Standard Specifications, Load Tables and**  
**Weight Tables for Steel Joists and Joist Girders**

First Printing – July 2020

This document containing the errata to the Steel Joist Institute 45<sup>th</sup> Edition Standard Specification will be periodically updated as needed and posted on the SJI website at [www.steeljoist.org](http://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 August 16, 2021**  
**Second Errata Posted on February 7, 2022**

**TABLE 2.7-3**

**K, LH, and DLH SERIES JOISTS**  
**MAXIMUM JOIST SPACING FOR DIAGONAL BRIDGING**

When published, this table did not show the shaded area that is noted in comment 2 at the bottom of the table. This errata shows the shaded area.

**TABLE 2.7-3**

K, LH, and DLH SERIES JOISTS								
MAXIMUM JOIST SPACING FOR DIAGONAL BRIDGING <sup>1</sup>								
JOIST DEPTH	BRIDGING ANGLE SIZE – (EQUAL LEG ANGLE) <sup>2</sup>							
	1 x 7/64 (25 x 3 mm) r = 0.20" (5.08 mm)	1-1/4 x 7/64 (32 x 3 mm) r = 0.25" (6.35 mm)	1-1/2 x 7/64 (38 x 3 mm) r = 0.30" (7.62 mm)	1-3/4 x 7/64 (45 x 3 mm) r = 0.35" (8.89 mm)	2 x 1/8 (50 x 3 mm) r = 0.40" (10.16 mm)	2 1/2 x 5/32 (64x 4 mm) r=0.50" (12.70 mm)	3 x 3/16 (76 x 5 mm) r = 0.60" (15.24 mm)	3 1/2 x 1/4 (89 x 6 mm) r = 0.70" (17.78 mm)
in. (mm)	ft.-in. (mm)	ft.-in. (mm)	ft.-in. (mm)	ft.-in. (mm)	ft.-in. (mm)	ft.-in. (mm)	ft.-in. (mm)	ft.-in. (mm)
12" (305)	6'-7" (2007)	8'-3" (2514)	9'-11"(3022)	11'-7" (3530)	13'-3" (4038)	16'-7" (5055)	19'-11"(6070)	23'-3" (7086)
14" (356)	6'-6" (1981)	8'-3" (2514)	9'-11"(3022)	11'-7" (3530)	13'-3" (4038)	16'-7" (5055)	19'-11"(6070)	23'-3" (7086)
16" (406)	6'-6" (1981)	8'-2" (2489)	9'-10"(2997)	11'-7" (3530)	13'-3" (4038)	16'-7" (5055)	19'-11"(6070)	23'-3" (7086)
18" (457)	6'-6" (1981)	8'-2" (2489)	9'-10"(2997)	11'-6" (3505)	13'-3" (4038)	16'-7" (5055)	19'-11"(6070)	23'-3" (7086)
20" (508)	6'-5" (1955)	8'-2" (2489)	9'-10"(2997)	11'-6" (3505)	13'-2" (4013)	16'-7" (5055)	19'-11"(6070)	23'-3" (7086)
22" (559)	6'-4" (1930)	8'-1" (2463)	9'-10"(2997)	11'-6" (3505)	13'-2" (4013)	16'-6" (5029)	19'-11"(6070)	23'-3" (7086)
24" (610)	6'-4" (1930)	8'-1" (2463)	9'-9" (2971)	11'-5" (3479)	13'-2" (4013)	16'-6" (5029)	19'-10"(6045)	23'-3" (7086)
26" (660)	6'-3" (1905)	8'-0" (2438)	9'-9" (2971)	11'-5" (3479)	13'-1" (3987)	16'-6" (5029)	19'-10"(6045)	23'-2" (7061)
28" (711)	6'-3" (1905)	8'-0" (2438)	9'-8" (2946)	11'-5" (3479)	13'-1" (3987)	16'-6" (5029)	19'-10"(6045)	23'-2" (7061)
30" (762)	6'-2" (1879)	7'-11"(2413)	9'-8" (2946)	11'-4" (3454)	13'-1" (3987)	16'-5" (5004)	19'-10"(6045)	23'-2" (7061)
32" (813)	6'-1" (1854)	7'-10"(2387)	9'-7" (2921)	11'-4" (3454)	13'-0" (3962)	16'-5" (5004)	19'-9" (6020)	23'-2" (7061)
36" (914)	5'-11"(1803)	7'-9" (2362)	9'-6" (2895)	11'-3" (3429)	12'-11"(3973)	16'-4" (4979)	19'-9" (6020)	23'-1" (7035)
40" (1016)	5'-9" (1753)	7'-7" (2311)	9'-5" (2870)	11'-2" (3403)	12'-10"(3911)	16'-4" (4979)	19'-8" (5994)	23'-1" (7035)
44" (1118)	5'-6" (1676)	7'-5" (2260)	9'-3" (2819)	11'-0" (3352)	12'-9" (3886)	16'-3" (4953)	19'-7" (5969)	23'-0" (7010)
48" (1219)	5'-4" (1626)	7'-3" (2209)	9'-2" (2794)	10'-11"(3327)	12'-8" (3860)	16'-2" (4928)	19'-7" (5969)	22'-11"(6985)
52" (1321)	5'-0" (1524)	7'-1" (2159)	9'-0" (2743)	10'-10" (3302)	12'-7" (3835)	16'-1" (4902)	19'-6" (5943)	22'-11"(6985)
56" (1422)	4'-9" (1448)	6'-10"(2083)	8'-10"(2692)	10'-8" (3251)	12'-5" (3784)	16'-0" (4877)	19'-5" (5918)	22'-10"(6960)
60" (1524)	4'-4" (1321)	6'-8" (2032)	8'-7" (2616)	10'-6" (3200)	12'-4" (3759)	15'-10"(4826)	19'-4" (5893)	22'-9" (6935)
64" (1626)	**	6'-4" (1931)	8'-5" (2565)	10'-4" (3149)	12'-2" (3708)	15'-9" (4801)	19'-3" (5867)	22'-8" (6909)
68" (1727)	**	6'-1" (1854)	8'-2" (2489)	10'-2" (3098)	12'-0" (3657)	15'-8" (4775)	19'-2" (5842)	22'-7" (6884)
72" (1829)	**	5'-9" (1753)	8'-0" (2438)	10'-0" (3048)	11'-10"(3606)	15'-6" (4724)	19'-1" (5816)	22'-6" (6858)
80" (2032)	**	5'-0" (1524)	7'-5" (2260)	9'-6" (2895)	11'-6" (3505)	15'-3" (4648)	18'-10"(5740)	22'-4" (6808)
88" (2235)	**	**	6'-9" (2058)	9'-0" (2743)	11'-1" (3378)	14'-11"(4546)	18'-7" (5664)	22'-1" (6731)
96" (2438)	**	**	6'-0" (1829)	8'-5" (2565)	10'-8" (3251)	14'-7" (4445)	18'-4" (5588)	21'-11"(6680)
104" (2642)	**	**	**	7'-9" (2362)	10'-1" (3073)	14'-2" (4318)	18'-0" (5486)	21'-8" (6604)
112" (2845)	**	**	**	7'-0" (2134)	9'-6" (2895)	13'-9" (4191)	17'-8" (5385)	21'-4" (6503)
120" (3048)	**	**	**	**	8'-9" (2667)	13'-4" (4064)	17'-3" (5258)	21'-1" (6426)

**\*\*INTERPOLATION BELOW THE MINIMUM VALUES SHOWN IS NOT ALLOWED.**

(1) SEE TABLE 2.7-4 FOR MINIMUM JOIST SPACE FOR DIAGONAL ONLY BRIDGING.

(2) In the shaded range of the Table, for LH23, 24, and 25, compressive strength requirements may control, reducing the maximum joist spacing shown. Either select a larger bridging angle size (outside of the shaded area) or check compression strength (Ref. Section 2.7(c)) for LH23, 24, and 25.

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**First Errata Posted on August 16, 2021**

**Corrected equation for calculating joist deflection on page 12.**

As printed:

**Compute Joist Deflection:**

Increase deflection 15% to account for shear deformation in webs.

$$(1.15)(5WL_4/384EI)$$

$$(1.15)(5)(148/12) [(40-.33) \times 12]_4 / [(384)(29 \times 10^6) (247)] = 1.32''$$

Verify the RED number represents the joist loading that produces L/360 deflection

$$L/360 = (40-.33) \times 12/360 = 1.32''$$

As corrected:

**Compute Joist Deflection:**

Increase deflection 15% to account for shear deformation in webs.

$$(1.15)(5WL_4/384EI)$$

$$(1.15)(5)(148/12) [(40-.33) \times 12]_4 / [(384)(29 \times 10^6) (247)] = 1.32''$$

Verify the RED number represents the joist loading that produces L/360 deflection

$$L/360 = (40-.33) \times 12/360 = 1.32''$$

**Corrected multiple load table cells on multiple pages.**

Page 117	28LH07	54 ft	Total load changed to 474
Page 118	32LH09	59 ft	Live load changed to 198
Page 127	28LH07	16459 mm	Total load changed to 6.91
Page 128	32LH09	17983 mm	Live load changed to 2.88
Page 138	28LH07	54 ft	Total load changed to 316
Page 139	32LH09	59 ft	Live load changed to 198
Page 148	28LH07	16459 mm	Total load changed to 4.61
Page 149	32LH09	17983 mm	Live load changed to 2.88

# JOIST MOMENT OF INERTIA AND DEFLECTION

The moment of inertia of K-Series, LH-Series and DLH-Series joists in the load table can be estimated using the following equations:

$$I_j = 26.767 (W) (L^3) (10^{-6}) \text{ ASD, US Customary Units with } W \text{ in plf and } L = \text{Span} - 0.33 \text{ in feet}$$

$$I_j = 2.6953 (W) (L^3) (10^{-5}) \text{ ASD, Metric Units with } W \text{ in kN/m and } L = \text{Span} - 102 \text{ in mm}$$

The equations shown above provide an approximate “gross” moment of inertia, not including the effects of shear deformation. An open web steel joist can be expected to have approximately 15 percent more deformation than a solid web member. When a conventional beam formula is used to calculate joist deflection, a factor of 1.15 should be applied to account for the web shear deformation.

## Example:

Find the Inertia for a 24K7 @ 40'-0”:

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$I_j = 26.767 (W) (L^3) (10^{-6})$  where  $W =$  RED figure in the Load Table and  $L = (\text{Span} - 0.33)$  in feet.

$$I_j = 26.767(148) (40-0.33)^3(10^{-6}) = 247 \text{ in}^4$$

## Compute Joist Deflection:

Increase deflection 15% to account for shear deformation in webs.

$$(1.15)(5WL^4/384EI)$$

$$(1.15)(5)(148/12) [(40-.33) \times 12]^4 / [(384)(29 \times 10^6) (247)] = 1.32''$$

Verify the RED number represents the joist loading that produces L/360 deflection

$$L/360 = (40-.33) \times 12/360 = 1.32''$$

The 15 percent approximation also applies to the deflection equations when using the Joist Girder moment of Inertia equations.

Having determined the moment of inertia and live load deflection requirements, it is not typically necessary to specify a total load deflection limit. K-Series, LH-Series, DLH Series and Joist Girders are fabricated with camber, (ref. SJI 100 sect 4.6), and since these are steel structural members, 2018 IBC Table 1604.3 note G states the dead load shall be taken as zero in determining the total load deflection.



# LRFD

**STANDARD LOAD TABLE/OPEN WEB STEEL JOISTS, LH-SERIES**  
 Based on a 50 ksi Maximum Yield Strength - Loads Shown In Pounds Per Linear Foot (plf)

Joist Designation	28LH05	28LH06	28LH07	28LH08	28LH09	28LH10	28LH11	28LH12	28LH13	28LH14	28LH15	28LH16	28LH17	28LH18	28LH19	28LH20	28LH21	28LH22	28LH23
Depth (in.)	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
Approx. Wt. (lbs./ft.)	13	16	17	18	21	23	25	27	30	35	38	42	49	56	63	79	88	102	111
Span (ft.)																			
↓																			
28	939 626	1246 831	1452 968	1554 1036	2013 1342	2157 1438	2355 1570	2758 1839	3051 1944	3688 2459	3997 2665								
29	894 596	1186 791	1380 920	1474 983	1906 1271	2043 1362	2230 1487	2611 1674	2883 1747	3486 2324	3777 2518	4443 2839							
30	852 568	1132 755	1311 874	1401 934	1806 1186	1936 1291	2113 1380	2476 1510	2727 1576	3298 2130	3574 2317	4197 2561							
31	813 542	1080 720	1246 818	1333 873	1714 1074	1837 1169	2005 1249	2349 1367	2583 1427	3124 1928	3385 2098	3970 2319							
32	775 499	1030 658	1186 743	1269 793	1627 975	1744 1062	1905 1134	2232 1242	2449 1296	2962 1751	3210 1905	3760 2106	4332 2406						
33	741 454	984 600	1129 677	1209 722	1548 888	1659 967	1810 1033	2121 1131	2325 1181	2812 1595	3048 1735	3565 1918	4107 2192						
34	708 415	940 548	1077 618	1152 660	1473 811	1578 883	1723 944	2019 1033	2211 1079	2673 1457	2896 1585	3385 1752	3888 2002	4404 2286					
35	676 380	900 502	1027 566	1099 604	1402 743	1503 809	1641 865	1923 946	2103 988	2542 1335	2755 1452	3205 1605	3667 1834	4186 2094					
36	648 349	861 461	981 520	1050 555	1338 682	1434 743	1564 794	1834 869	2002 907	2421 1226	2625 1333	3027 1474	3465 1684	3982 1923	4492 2127				
37	621 321	825 424	937 478	1003 511	1276 628	1368 684	1494 731	1749 800	1908 835	2308 1128	2502 1227	2865 1356	3279 1550	3790 1770	4249 1958				
38	594 296	790 391	897 441	960 471	1219 579	1306 631	1426 674	1670 738	1821 770	2202 1040	2386 1132	2715 1251	3106 1429	3592 1632	4027 1806				
39	570 274	757 362	859 408	918 435	1165 536	1249 583	1363 623	1597 682	1740 712	2103 962	2280 1046	2575 1157	2947 1321	3409 1509	3822 1670				
40	547 254	727 335	823 378	880 403	1114 496	1195 540	1305 577	1528 632	1662 659	2010 891	2179 969	2448 1071	2800 1224	3238 1398	3631 1546				
41	525 236	699 311	789 351	843 374	1062 460	1144 501	1249 536	1464 586	1590 612	1923 827	2085 899	2329 994	2665 1136	3082 1297	3454 1435	3826 1782			
42	505 219	672 289	757 326	810 348	1000 428	1093 466	1170 498	1285 545	1342 569	1842 769	1996 836	2218 924	2538 1056	2935 1206	3291 1334	4120 1657			
43	484 205	643 270	726 305	775 325	958 400	1056 439	1143 475	1255 520	1311 543	1765 716	1912 779	2115 861	2421 983	2799 1123	3138 1243	3930 1543	4387 1708		
44	465 192	618 253	696 285	744 305	918 375	1018 414	1104 448	1227 496	1281 518	1693 668	1834 726	2019 803	2311 917	2673 1048	2997 1159	3751 1439	4189 1593		
45	445 180	592 238	667 267	712 285	879 351	976 388	1066 423	1200 476	1252 495	1624 624	1761 679	1930 750	2209 857	2554 979	2863 1083	3585 1345	4003 1489	4404 1688	
46	429 169	568 223	640 251	684 268	844 329	937 364	1023 397	1173 454	1224 472	1560 584	1692 635	1846 702	2113 802	2443 916	2740 1013	3430 1268	3829 1393	4212 1579	
47	412 159	546 209	615 236	657 252	810 309	900 342	982 373	1149 435	1198 452	1498 547	1626 595	1768 658	2023 751	2340 858	2623 950	3285 1179	3667 1305	4033 1480	
48	397 150	525 197	591 222	630 236	778 291	864 322	943 351	1105 408	1173 433	1437 513	1564 558	1695 617	1939 705	2242 805	2514 891	3148 1106	3516 1225	3867 1389	4425 1510
49	382 142	505 186	568 209	604 222	748 274	831 303	907 331	1063 383	1149 415	1378 482	1506 525	1626 580	1860 663	2151 757	2412 837	3021 1040	3372 1151	3709 1305	4254 1419
50	367 133	486 175	547 197	580 209	721 258	799 285	873 312	1023 361	1126 396	1323 454	1446 493	1561 546	1786 623	2065 712	2316 788	2899 978	3238 1083	3561 1228	4090 1335
51	355 126	469 166	528 186	556 196	694 243	769 269	841 294	984 340	1083 373	1272 427	1389 465	1500 514	1716 587	1984 670	2226 742	2787 921	3111 1020	3421 1156	3937 1257
52	342 119	451 156	508 176	535 185	669 228	742 255	810 278	948 321	1041 352	1222 403	1336 438	1443 485	1651 554	1909 632	2140 700	2679 869	2992 962	3291 1090	3793 1186
53	330 113	436 148	490 166	516 175	645 216	715 241	781 263	913 303	1002 332	1176 380	1285 414	1387 457	1588 523	1837 597	2059 660	2578 820	2880 908	3166 1029	3655 1119
54	319 107	421 140	474 158	496 165	622 204	690 228	753 249	880 285	964 314	1132 359	1239 391	1336 432	1530 494	1770 564	1983 624	2484 775	2773 858	3049 973	3526 1058
55	309 102	406 133	457 150	478 156	601 193	666 215	727 236	849 270	930 297	1092 340	1194 370	1288 409	1474 467	1705 534	1912 591	2394 733	2673 812	2940 921	3403 1001
56	298 97	393 126	442 142	462 148	580 183	643 204	702 223	819 256	897 281	1053 322	1150 350	1242 387	1422 443	1644 505	1843 559	2308 695	2577 769	2835 872	3286 948



# LRFD

**STANDARD LOAD TABLE/OPEN WEB STEEL JOISTS, LH-SERIES**  
Based on a 50 ksi Maximum Yield Strength - Loads Shown In Pounds Per Liner Foot (plf)

Joist Designation	32LH06	32LH07	32LH08	32LH09	32LH10	32LH11	32LH12	32LH13	32LH14	32LH15	32LH16	32LH17	32LH18	32LH19	32LH20	32LH21	32LH22	32LH23	32LH24
Depth (in.)	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
Approx. Wt. (lbs./ft.)	14	16	17	21	21	24	27	30	33	35	42	49	56	62	78	87	101	110	124
Span (ft.)																			
↓																			
32	982 655 735	1102 735	1243 829	1648 1099	1776 1184	1944 1296	2283 1522	2683 1789	2874 1916	3075 2050	4036 2691								
33	943 629	1057 705	1189 793	1573 1049	1696 1131	1857 1238	2179 1453	2557 1705	2740 1827	2931 1870	3841 2553	4426 2920							
34	907 605	1017 678	1140 760	1504 1003	1620 1080	1774 1183	2082 1388	2440 1605	2613 1653	2796 1708	3660 2332	4218 2668							
35	871 581	976 651	1092 728	1438 938	1549 1033	1696 1131	1992 1323	2329 1470	2494 1514	2668 1564	3489 2136	4021 2443							
36	838 559	939 626	1047 689	1375 861	1483 950	1623 1040	1906 1215	2226 1350	2383 1391	2550 1437	3330 1961	3837 2244	4335 2563						
37	805 524	903 584	1005 634	1317 793	1420 875	1554 957	1825 1118	2128 1243	2278 1280	2439 1322	3180 1805	3664 2065	4140 2359						
38	775 484	870 539	964 585	1263 731	1360 807	1489 883	1749 1032	2037 1146	2181 1181	2332 1220	3039 1665	3502 1905	3957 2176						
39	747 447	837 498	925 540	1210 676	1305 746	1428 816	1677 954	1950 1060	2088 1091	2235 1127	2907 1539	3351 1761	3786 2012	4335 2230					
40	718 414	807 461	889 501	1161 626	1251 691	1369 756	1609 883	1869 981	2001 1011	2140 1044	2784 1426	3208 1631	3624 1863	4144 2066					
41	693 384	777 428	855 465	1114 581	1201 641	1315 701	1545 820	1792 911	1918 938	2053 969	2667 1323	3073 1513	3472 1729	3966 1917					
42	667 357	748 398	823 432	1071 540	1155 596	1263 652	1483 762	1719 847	1842 872	1971 901	2557 1230	2934 1407	3330 1608	3798 1782					
43	645 333	723 371	792 402	1030 503	1110 555	1215 607	1426 710	1651 789	1768 812	1893 839	2443 1146	2797 1310	3195 1497	3633 1660					
44	621 310	697 346	763 375	990 469	1068 518	1168 567	1372 662	1587 736	1699 758	1818 783	2332 1069	2671 1222	3069 1397	3468 1548	4350 1927				
45	600 290	673 323	735 351	954 439	1027 484	1125 529	1320 619	1525 687	1633 708	1749 731	2229 998	2553 1142	2949 1305	3315 1447	4156 1801				
46	579 271	649 302	709 328	918 410	990 453	1083 495	1272 579	1468 643	1572 663	1683 684	2133 934	2442 1069	2824 1221	3171 1354	3976 1685	4441 1866			
47	559 254	628 283	684 307	885 385	954 424	1044 464	1225 542	1414 603	1513 621	1620 641	2041 875	2338 1001	2704 1144	3037 1268	3808 1579	4252 1749			
48	541 239	607 266	660 288	849 361	919 398	1006 436	1182 509	1362 566	1458 583	1560 602	1957 821	2241 940	2593 1074	2910 1190	3649 1482	4077 1641	4485 1862		
49	523 224	586 250	637 271	816 339	886 374	970 409	1140 478	1312 531	1405 565	1504 577	1878 772	2151 883	2487 1009	2793 1118	3501 1392	3910 1542	4303 1750		
50	507 211	568 235	616 255	774 319	856 352	937 385	1101 450	1225 500	1264 515	1305 532	1803 726	2064 831	2388 949	2680 1052	3361 1310	3754 1451	4131 1646		
51	489 199	549 223	595 242	747 302	825 332	903 363	1068 428	1201 480	1239 495	1279 511	1732 684	1984 782	2295 894	2575 991	3231 1234	3607 1366	3970 1550	4477 1689	
52	472 189	529 211	574 229	720 285	796 315	870 343	1032 406	1177 461	1215 476	1255 492	1666 645	1908 738	2206 843	2478 935	3106 1163	3469 1288	3817 1462	4315 1593	
53	456 179	511 200	553 216	694 270	768 297	840 325	996 384	1156 444	1192 458	1231 473	1603 609	1836 697	2124 796	2383 882	2989 1098	3339 1216	3673 1380	4162 1504	4381 1628
54	441 169	493 189	535 205	670 256	742 282	811 308	961 364	1113 420	1170 440	1207 454	1543 575	1768 658	2046 752	2296 834	2880 1038	3216 1150	3538 1305	4018 1421	4219 1539
55	426 161	477 179	517 194	648 243	717 267	783 292	928 345	1072 397	1149 417	1186 438	1488 544	1704 623	1971 712	2212 789	2775 982	3099 1088	3409 1234	3880 1344	4066 1456
56	412 153	462 170	499 184	627 230	693 254	757 277	897 327	1035 376	1107 395	1164 422	1435 516	1644 590	1900 674	2134 747	2676 930	2989 1030	3288 1169	3748 1273	3921 1379
57	399 145	447 162	483 175	606 219	667 240	732 263	867 311	999 354	1069 374	1144 407	1384 489	1585 559	1834 639	2059 708	2583 882	2884 977	3174 1108	3624 1207	3784 1307
58	385 138	432 154	468 167	586 208	645 228	709 251	838 295	964 336	1032 355	1125 393	1336 464	1531 531	1771 606	1989 672	2493 837	2785 927	3064 1051	3505 1145	3654 1240
59	373 131	418 146	453 159	568 198	624 217	687 239	811 281	931 319	997 337	1087 374	1291 440	1479 504	1711 576	1921 638	2409 794	2691 880	2961 999	3393 1088	3531 1178
60	363 125	406 140	439 151	550 189	603 206	664 227	786 267	900 304	964 321	1051 355	1249 419	1431 479	1654 547	1857 607	2329 755	2601 836	2862 949	3285 1034	3412 1120
61	351 119	393 133	426 144	534 180	583 196	643 216	762 255	871 288	933 304	1017 338	1207 398	1383 456	1600 521	1797 577	2253 718	2517 796	2769 903	3183 984	3301 1065
62	340 114	381 127	412 137	517 172	564 186	624 206	738 243	843 275	903 290	984 322	1168 379	1339 434	1549 496	1738 549	2181 684	2436 758	2679 860	3085 937	3195 1014
63	330 108	370 121	400 131	502 164	546 178	604 196	715 232	816 262	874 276	952 306	1132 361	1296 413	1500 472	1684 524	2112 652	2358 722	2595 819	2991 892	3094 966
64	321 104	360 116	388 125	487 157	529 169	585 187	694 221	790 249	846 264	924 292	1096 344	1255 394	1453 450	1632 499	2046 622	2284 688	2514 781	2901 851	2997 922



# LRFD

## METRIC LOAD TABLE/OPEN WEB STEEL JOISTS, LH-SERIES

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

Joist Designation	28LH05	28LH06	28LH07	28LH08	28LH09	28LH10	28LH11	28LH12	28LH13	28LH14	28LH15	28LH16	28LH17	28LH18	28LH19	28LH20	28LH21	28LH22	28LH23
Depth (mm)	711	711	711	711	711	711	711	711	711	711	711	711	711	711	711	711	711	711	711
Approx. Wt. (kN/m)	0.19	0.23	0.25	0.26	0.31	0.34	0.36	0.39	0.44	0.51	0.55	0.61	0.72	0.82	0.92	1.15	1.28	1.49	1.62
Span (mm)																			
↓																			
8534	13.70 9.13	18.18 12.12	21.19 14.12	22.67 15.11	29.37 19.58	31.47 20.98	34.36 22.91	40.24 26.83	44.52 28.37	53.82 35.88	58.33 38.89								
8839	13.04 8.69	17.30 11.54	20.13 13.42	21.51 14.34	27.81 18.54	29.81 19.87	32.54 21.70	38.10 24.43	42.07 25.49	50.87 33.91	55.12 36.74	64.84 41.43							
9144	12.43 8.28	16.52 11.01	19.13 12.75	20.44 13.63	26.35 17.30	28.25 18.84	30.83 20.13	36.13 22.03	39.79 22.99	48.13 31.08	52.15 33.81	61.25 37.37							
9449	11.86 7.90	15.76 10.50	18.18 11.93	19.45 12.74	25.01 15.67	26.80 17.06	29.26 18.22	34.28 19.94	37.69 20.82	45.59 28.13	49.40 30.61	57.93 33.84							
9754	11.31 7.28	15.03 9.60	17.30 10.84	18.51 11.57	23.74 14.22	25.45 15.49	27.80 16.54	32.57 18.12	35.74 18.91	43.22 25.55	46.84 27.80	54.87 30.73	63.22 35.11						
10058	10.81 6.62	14.36 8.75	16.47 9.88	17.64 10.53	22.59 12.95	24.21 14.11	26.41 15.07	30.95 16.50	33.93 17.23	41.03 23.27	44.48 25.32	52.02 27.99	59.93 31.98						
10363	10.33 6.05	13.71 7.99	15.71 9.01	16.81 9.63	21.49 11.83	23.02 12.88	25.14 13.77	29.46 15.07	32.26 15.74	39.00 21.26	42.26 23.13	49.40 25.56	56.74 29.21	64.27 33.36					
10668	9.86 5.54	13.13 7.32	14.98 8.26	16.03 8.81	20.46 10.84	21.93 11.80	23.94 12.62	28.06 13.80	30.69 14.41	37.09 19.48	40.20 21.19	46.77 23.42	53.51 26.76	61.09 30.55					
10973	9.45 5.09	12.56 6.72	14.31 7.58	15.32 8.09	19.52 9.95	20.92 10.84	22.82 11.58	26.76 12.68	29.21 13.23	35.33 17.89	38.30 19.45	44.17 21.51	50.56 24.57	58.11 28.06	65.55 31.04				
11278	9.06 4.68	12.03 6.18	13.67 6.97	14.63 7.45	18.62 9.16	19.96 9.98	21.80 10.66	25.52 11.67	27.84 12.18	33.68 16.46	36.51 17.90	41.81 19.78	47.85 22.62	55.31 25.83	62.00 28.57				
11582	8.66 4.31	11.52 5.70	13.09 6.43	14.01 6.87	17.78 8.44	19.05 9.20	20.81 9.83	24.37 10.77	26.57 11.23	32.13 15.17	34.82 16.52	39.62 18.25	45.32 20.85	52.42 23.81	58.76 26.35				
11887	8.31 3.99	11.04 5.28	12.53 5.95	13.39 6.34	17.00 7.82	18.22 8.50	19.89 9.09	23.30 9.95	25.39 10.39	30.69 14.03	33.27 15.26	37.57 16.88	43.00 19.27	49.75 22.02	55.77 24.37				
12192	7.98 3.70	10.60 4.88	12.01 5.51	12.84 5.88	16.25 7.23	17.43 7.88	19.04 8.42	22.29 9.22	24.25 9.61	29.33 13.00	31.80 14.14	35.72 15.63	40.86 17.86	47.25 20.40	52.99 22.56				
12497	7.66 3.44	10.20 4.53	11.51 5.12	12.30 5.45	15.49 6.71	16.69 7.31	18.22 7.82	21.36 8.55	23.20 8.93	28.06 12.06	30.42 13.11	33.98 14.50	38.89 16.57	44.97 18.92	50.40 20.94	63.13 26.00			
12802	7.36 3.19	9.80 4.21	11.04 4.75	11.82 5.07	14.59 6.24	15.95 6.80	17.07 7.26	18.75 7.95	19.58 8.30	26.88 11.22	29.12 12.20	32.36 13.48	37.03 15.41	42.83 17.60	48.02 19.46	60.12 24.18			
13106	7.06 2.99	9.38 3.94	10.59 4.45	11.31 4.74	13.98 5.83	15.41 6.40	16.68 6.93	18.31 7.58	19.13 7.92	25.75 10.44	27.90 11.36	30.86 12.56	35.33 14.34	40.84 16.38	45.79 18.14	57.35 22.51	64.02 24.92		
13411	6.78 2.80	9.01 3.69	10.15 4.15	10.85 4.45	13.39 5.47	14.85 6.04	16.11 6.53	17.90 7.23	18.69 7.55	24.70 9.74	26.76 10.59	29.46 11.71	33.72 13.38	39.00 15.29	43.73 16.91	54.74 21.00	61.13 23.24		
13716	6.49 2.62	8.63 3.47	9.73 3.89	10.39 4.15	12.82 5.12	14.24 5.66	15.55 6.17	17.51 6.94	18.27 7.22	23.70 9.10	25.69 9.90	28.16 10.94	32.23 12.50	37.27 14.28	41.78 15.80	52.31 19.62	58.41 21.73	64.27 24.63	
14021	6.26 2.46	8.28 3.25	9.34 3.66	9.98 3.91	12.31 4.80	13.67 5.31	14.92 5.79	17.11 6.62	17.86 6.88	22.76 8.52	24.69 9.26	26.94 10.24	30.83 11.70	35.65 13.36	39.98 14.78	50.05 18.35	55.88 20.32	61.46 23.04	
14326	6.01 2.32	7.96 3.05	8.97 3.44	9.58 3.67	11.82 4.50	13.13 4.99	14.33 5.44	16.76 6.34	17.48 6.59	21.86 7.98	23.72 8.68	25.80 9.60	29.52 10.96	34.14 12.52	38.27 13.86	47.94 17.20	53.51 19.04	58.85 21.59	
14630	5.79 2.18	7.66 2.87	8.62 3.23	9.19 3.44	11.35 4.24	12.60 4.69	13.76 5.12	16.12 5.95	17.11 6.31	20.97 7.48	22.82 8.14	24.73 9.00	28.29 10.28	32.71 11.74	36.68 13.00	45.94 16.14	51.31 17.87	56.43 20.27	64.57 22.03
14935	5.57 2.07	7.36 2.71	8.28 3.05	8.81 3.23	10.91 3.99	12.12 4.42	13.23 4.83	15.51 5.58	16.76 6.05	20.11 7.03	21.97 7.66	23.72 8.46	27.14 9.67	31.39 11.04	35.20 12.21	44.08 15.17	49.21 16.79	54.12 19.04	62.08 20.70
15240	5.35 1.94	7.09 2.55	7.98 2.87	8.46 3.05	10.52 3.76	11.66 4.15	12.74 4.55	14.92 5.26	16.43 5.77	19.30 6.62	21.10 7.19	22.78 7.96	26.06 9.09	30.13 10.39	33.79 11.49	42.30 14.27	47.25 15.80	51.96 17.92	59.68 19.48
15545	5.18 1.83	6.84 2.42	7.70 2.71	8.11 2.86	10.12 3.54	11.22 3.92	12.27 4.29	14.36 4.96	15.80 5.44	18.56 6.23	20.27 6.78	21.89 7.50	25.04 8.56	28.95 9.77	32.48 10.82	40.67 13.44	45.40 14.88	49.92 16.87	57.45 18.34
15850	4.99 1.73	6.58 2.27	7.41 2.56	7.80 2.69	9.76 3.32	10.82 3.72	11.82 4.05	13.83 4.68	15.19 5.13	17.83 5.88	19.49 6.39	21.05 7.07	24.09 8.08	27.85 9.22	31.23 10.21	39.09 12.68	43.66 14.03	48.02 15.90	55.35 17.30
16154	4.81 1.64	6.36 2.15	7.15 2.42	7.53 2.55	9.41 3.15	10.43 3.51	11.39 3.83	13.32 4.42	14.62 4.84	17.16 5.54	18.75 6.04	20.24 6.66	23.17 7.63	26.80 8.71	30.04 9.63	37.62 11.96	42.03 13.25	46.20 15.01	53.34 16.33
16459	4.65 1.56	6.14 2.04	6.91 2.30	7.23 2.40	9.07 2.97	10.06 3.32	10.98 3.63	12.84 4.15	14.06 4.58	16.52 5.23	18.08 5.70	19.49 6.30	22.32 7.20	25.83 8.23	28.93 9.10	36.25 11.31	40.46 12.52	44.49 14.19	51.45 15.44
16764	4.50 1.48	5.92 1.94	6.66 2.18	6.97 2.27	8.77 2.81	9.71 3.13	10.60 3.44	12.39 3.94	13.67 4.33	15.93 4.96	17.42 5.39	18.79 5.96	21.51 6.81	24.88 7.79	27.90 8.62	34.93 10.69	39.00 11.85	42.90 13.44	49.66 14.60
17069	4.34 1.41	5.73 1.83	6.45 2.07	6.74 2.15	8.46 2.67	9.38 2.97	10.24 3.25	11.95 3.73	13.09 4.10	15.36 4.69	16.78 5.10	18.12 5.64	20.75 6.46	23.99 7.36	26.89 8.15	33.68 10.14	37.60 11.22	41.37 12.72	47.95 13.83





# LRFD

## METRIC LOAD TABLE/OPEN WEB STEEL JOISTS, LH-SERIES

Based on a 345 MPa Maximum Yield Strength - Loads Shown In Kilonewtons Per Meter (kN/m)

Joist Designation	32LH06	32LH07	32LH08	32LH09	32LH10	32LH11	32LH12	32LH13	32LH14	32LH15	32LH16	32LH17	32LH18	32LH19	32LH20	32LH21	32LH22	32LH23	32LH24
Depth (mm)	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813
Approx. Wt. (kN/m)	0.20	0.23	0.25	0.31	0.31	0.35	0.39	0.44	0.48	0.51	0.61	0.72	0.82	0.90	1.14	1.27	1.47	1.61	1.81
Span (mm)																			
9754	14.33 9.55	16.08 10.72	18.14 12.09	24.05 16.03	25.91 17.27	28.37 18.91	33.31 22.21	39.15 26.10	41.94 27.96	44.87 29.91	58.90 39.27								
10058	13.76 9.17	15.42 10.28	17.35 11.57	22.95 15.30	24.75 16.50	27.10 18.06	31.80 21.20	37.31 24.88	39.98 26.66	42.77 27.29	56.05 37.25	64.59 42.61							
10363	13.23 8.82	14.84 9.89	16.63 11.09	21.94 14.63	23.64 15.76	25.88 17.26	30.38 20.25	35.60 23.42	38.13 24.12	40.80 24.92	53.41 34.03	61.55 38.93							
10668	12.71 8.47	14.24 9.50	15.93 10.62	20.98 13.68	22.60 15.07	24.75 16.50	29.07 19.30	33.98 21.45	36.39 22.09	38.93 22.82	50.91 31.17	58.68 35.65							
10973	12.22 8.15	13.70 9.13	15.27 10.05	20.06 12.56	21.64 13.86	23.68 15.17	27.81 17.73	32.48 19.70	34.77 20.30	37.21 20.97	48.59 28.61	55.99 32.74	63.26 37.40						
11278	11.74 7.64	13.17 8.52	14.66 9.25	19.22 11.57	20.72 12.76	22.67 13.96	26.63 16.31	31.05 18.14	33.24 18.68	35.59 19.29	46.40 26.34	53.47 30.13	60.41 34.42						
11582	11.31 7.06	12.69 7.86	14.06 8.53	18.43 10.66	19.84 11.77	21.73 12.88	25.52 15.06	29.72 16.72	31.82 17.23	34.03 17.80	44.35 24.29	51.10 27.80	57.74 31.75						
11887	10.90 6.52	12.21 7.26	13.49 7.88	17.65 9.86	19.04 10.88	20.84 11.90	24.47 13.92	28.45 15.46	30.47 15.92	32.61 16.44	42.42 22.46	48.90 25.69	55.25 29.36	63.26 32.54					
12192	10.47 6.04	11.77 6.72	12.97 7.31	16.94 9.13	18.25 10.08	19.97 11.03	23.48 12.88	27.27 14.31	29.20 14.75	31.23 15.23	40.62 20.81	46.81 23.80	52.88 27.18	60.47 30.15					
12497	10.11 5.60	11.33 6.24	12.47 6.78	16.25 8.47	17.52 9.35	19.19 10.23	22.54 11.96	26.15 13.29	27.99 13.68	29.96 14.14	38.92 19.30	44.84 22.08	50.67 25.23	57.87 27.97					
12802	9.73 5.21	10.91 5.80	12.01 6.30	15.63 7.88	16.85 8.69	18.43 9.51	21.64 11.12	25.08 12.36	26.88 12.72	28.76 13.14	37.31 17.95	42.81 20.53	48.59 23.46	55.42 26.00					
13106	9.41 4.85	10.55 5.41	11.55 5.86	15.03 7.34	16.19 8.09	17.73 8.85	20.81 10.36	24.09 11.51	25.80 11.85	27.62 12.24	35.65 16.72	40.81 19.11	46.62 21.84	53.01 24.22					
13411	9.06 4.52	10.17 5.04	11.13 5.47	14.44 6.84	15.58 7.55	17.04 8.27	20.02 9.66	23.16 10.74	24.79 11.06	26.53 11.42	34.03 15.60	38.98 17.83	44.78 20.38	50.61 22.59	63.48 28.12				
13716	8.75 4.23	9.82 4.71	10.72 5.12	13.92 6.40	14.98 7.06	16.41 7.72	19.26 9.03	22.25 10.02	23.83 10.33	25.52 10.66	32.52 14.56	37.25 16.66	43.03 19.04	48.37 21.11	60.65 26.28				
14021	8.44 3.95	9.47 4.40	10.34 4.78	13.39 5.98	14.44 6.61	15.80 7.22	18.56 8.44	21.42 9.38	22.94 9.67	24.56 9.98	31.12 13.63	35.63 15.60	41.21 17.81	46.27 19.76	58.02 24.59	64.81 27.23			
14326	8.15 3.70	9.16 4.13	9.98 4.48	12.91 5.61	13.92 6.18	15.23 6.77	17.87 7.90	20.63 8.80	22.08 9.06	23.64 9.35	29.78 12.76	34.12 14.60	39.46 16.69	44.32 18.50	55.57 23.04	62.05 25.52			
14630	7.89 3.48	8.85 3.88	9.63 4.20	12.39 5.26	13.41 5.80	14.68 6.36	17.24 7.42	19.87 8.26	21.27 8.50	22.76 8.78	28.56 11.98	32.70 13.71	37.84 15.67	42.46 17.36	53.25 21.62	59.49 23.94	65.45 27.17		
14935	7.63 3.26	8.55 3.64	9.29 3.95	11.90 4.94	12.93 5.45	14.15 5.96	16.63 6.97	19.14 7.74	20.50 7.98	21.94 8.24	27.40 11.26	31.39 12.88	36.29 14.72	40.76 16.31	51.09 20.31	57.06 22.50	62.79 25.53		
15240	7.39 3.07	8.28 3.42	8.98 3.72	11.29 4.65	12.49 5.13	13.67 5.61	16.06 6.56	17.87 7.29	18.44 7.51	19.04 7.76	26.31 10.59	30.12 12.12	34.85 13.84	39.11 15.35	49.05 19.11	54.78 21.67	60.28 24.02		
15545	7.13 2.90	8.01 3.25	8.68 3.53	10.90 4.40	12.03 4.84	13.17 5.29	15.58 6.24	17.52 7.00	18.08 7.22	18.66 7.45	25.27 9.98	28.95 11.41	33.49 13.04	37.57 14.46	47.15 18.00	52.64 19.93	57.93 22.62	62.79 24.64	65.33 26.64
15850	6.88 2.75	7.72 3.07	8.37 3.34	10.50 4.15	11.61 4.59	12.69 5.00	15.06 5.92	17.17 6.72	17.73 6.94	18.31 7.18	24.31 9.41	27.84 10.77	32.19 12.30	36.16 13.64	45.32 16.97	50.62 18.79	55.70 21.33	62.97 23.24	
16154	6.65 2.61	7.45 2.91	8.07 3.15	10.12 3.94	11.20 4.33	12.25 4.74	14.53 5.60	16.87 6.47	17.39 6.68	17.96 6.90	23.39 8.88	26.79 10.17	30.99 11.61	34.77 12.87	43.62 16.02	48.72 17.74	53.60 20.13	60.73 21.94	63.93 23.75
16459	6.43 2.46	7.19 2.75	7.80 2.99	9.77 3.73	10.82 4.11	11.83 4.49	14.02 5.31	16.24 6.12	17.07 6.42	17.61 6.62	22.51 8.39	25.80 9.60	29.85 10.97	33.50 12.17	42.03 15.14	46.93 16.78	51.63 19.04	58.63 20.73	61.57 22.46
16764	6.21 2.34	6.96 2.61	7.54 2.83	9.45 3.54	10.46 3.89	11.42 4.26	13.54 5.03	15.64 5.79	16.76 6.08	17.30 6.39	21.71 7.93	24.86 9.09	28.76 10.39	32.28 11.51	40.49 14.33	45.22 15.87	49.75 18.00	56.62 19.61	59.33 21.24
17069	6.01 2.23	6.74 2.48	7.28 2.68	9.15 3.35	10.11 3.70	11.04 4.04	13.09 4.77	15.10 5.48	16.15 5.76	16.98 6.15	20.94 7.53	23.99 8.61	27.72 9.83	31.14 10.90	39.05 13.57	43.62 15.03	47.98 17.06	54.69 18.57	57.22 20.12
17374	5.82 2.11	6.52 2.36	7.04 2.55	8.84 3.19	9.73 3.50	10.68 3.83	12.65 4.53	14.57 5.16	15.60 5.45	16.69 5.93	20.19 7.13	23.13 8.15	26.76 9.32	30.04 10.33	37.69 12.87	42.08 14.25	46.32 16.17	52.88 17.61	55.22 19.07
17678	5.61 2.01	6.30 2.24	6.82 2.43	8.55 3.03	9.41 3.32	10.34 3.66	12.22 4.30	14.06 4.90	15.06 5.18	16.41 5.73	19.49 6.77	22.34 7.74	25.84 8.84	29.02 9.80	36.38 12.21	40.64 13.52	44.71 15.33	51.15 16.71	53.32 18.09
17983	5.44 1.91	6.10 2.13	6.61 2.32	8.28 2.88	9.10 3.16	10.02 3.48	11.83 4.10	13.58 4.65	14.55 4.91	15.86 5.45	18.84 6.42	21.58 7.35	24.97 8.40	28.03 9.31	35.15 11.58	39.27 12.84	43.21 14.57	49.51 15.87	51.53 17.19
18288	5.29 1.82	5.92 2.04	6.40 2.20	8.02 2.75	8.80 3.00	9.69 3.31	11.47 3.89	13.13 4.43	14.06 4.68	15.33 5.18	18.22 6.11	20.88 6.99	24.13 7.98	27.10 8.85	33.98 11.01	37.95 12.20	41.76 13.84	47.94 15.09	49.79 16.34
18593	5.12 1.73	5.73 1.94	6.21 2.10	7.79 2.62	8.50 2.86	9.38 3.15	11.12 3.72	12.71 4.20	13.61 4.43	14.84 4.93	17.61 5.80	20.18 6.65	23.35 7.60	26.22 8.42	32.88 10.47	36.73 11.61	40.41 13.17	46.45 14.36	48.17 15.54
18898	4.96 1.66	5.56 1.85	6.01 1.99	7.54 2.51	8.23 2.71	9.10 3.00	10.77 3.54	12.30 4.01	13.17 4.23	14.36 4.69	17.04 5.53	19.54 6.33	22.60 7.23	25.36 8.01	31.82 9.98	35.55 11.06	39.09 12.55	45.02 13.67	46.62 14.79
19202	4.81 1.57	5.39 1.76	5.83 1.91	7.32 2.39	7.96 2.59	8.81 2.86	10.43 3.38	11.90 3.82	12.75 4.02	13.89 4.46	16.52 5.26	18.91 6.02	21.89 6.88	24.57 7.64	30.82 9.51	34.41 10.53	37.87 11.95	43.65 13.01	45.15 14.09
19507	4.68 1.51	5.25 1.69	5.66 1.82	7.10 2.29	7.72 2.46	8.53 2.72	10.12 3.22	11.52 3.63	12.34 3.85	13.48 4.26	15.99 5.02	18.31 5.74	21.20 6.56	23.81 7.28	29.85 9.07	33.33 10.04	36.68 11.39	42.33 12.41	43.73 13.45



**STANDARD LOAD TABLE/OPEN WEB STEEL JOISTS, LH-SERIES**  
 Based on a 50 ksi Maximum Yield Strength - Loads Shown In Pounds Per Linear Foot (plf)

Joist Designation	28LH05	28LH06	28LH07	28LH08	28LH09	28LH10	28LH11	28LH12	28LH13	28LH14	28LH15	28LH16	28LH17	28LH18	28LH19	28LH20	28LH21	28LH22	28LH23
Depth (in.)	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
Approx. Wt. (lbs./ft.)	13	16	17	18	21	23	25	27	30	35	38	42	49	56	63	79	88	102	111
Span (ft.)																			
28	626	831	968	1036	1342	1438	1570	1839	2034	2459	2665								
29	596	791	920	983	1271	1362	1487	1741	1922	2324	2518	2962							
30	568	755	874	934	1204	1291	1409	1651	1818	2199	2383	2798							
31	542	720	831	889	1143	1225	1337	1566	1722	2083	2257	2647							
32	517	687	791	846	1085	1163	1270	1488	1633	1975	2140	2507	2888						
33	494	656	753	806	1032	1106	1207	1414	1550	1875	2032	2377	2738						
34	472	627	718	768	982	1052	1149	1346	1474	1782	1931	2257	2592	2936					
35	451	600	685	733	935	1002	1094	1282	1402	1695	1837	2137	2445	2791					
36	432	574	654	700	892	956	1043	1223	1335	1614	1750	2018	2310	2655	2995				
37	414	550	625	669	851	912	996	1166	1272	1539	1668	1910	2186	2527	2833				
38	396	527	598	640	813	871	951	1113	1214	1468	1591	1810	2071	2395	2685				
39	380	505	573	612	777	833	909	1065	1160	1402	1520	1717	1965	2273	2548				
40	365	485	549	587	743	797	870	1019	1108	1340	1453	1632	1867	2159	2421				
41	350	466	526	562	708	763	833	976	1060	1282	1390	1553	1777	2055	2303	2884			
42	337	448	505	540	667	729	780	857	895	1228	1331	1479	1692	1957	2194	2747			
43	323	429	484	517	639	704	762	837	874	1177	1275	1410	1614	1866	2092	2620	2925		
44	310	412	464	496	612	679	736	818	854	1129	1223	1346	1541	1782	1998	2501	2793		
45	297	395	445	475	586	651	711	800	835	1083	1174	1287	1473	1703	1909	2390	2669	2936	
46	286	379	427	456	563	625	682	782	816	1040	1128	1231	1409	1629	1827	2287	2553	2808	
47	275	364	410	438	540	600	655	766	799	999	1084	1179	1349	1560	1749	2190	2445	2689	
48	265	350	394	420	519	576	629	737	782	958	1043	1130	1293	1495	1676	2099	2344	2578	2950
49	255	337	379	403	499	554	605	709	766	919	1004	1084	1240	1434	1608	2014	2248	2473	2836
50	245	324	365	387	481	533	582	682	751	882	964	1041	1191	1377	1544	1933	2159	2374	2727
51	237	313	352	371	463	513	561	656	722	848	926	1000	1144	1323	1484	1858	2074	2281	2625
52	228	301	339	357	446	495	540	632	694	815	891	962	1101	1273	1427	1786	1995	2194	2529
53	220	291	327	344	430	477	521	609	668	784	857	925	1059	1225	1373	1719	1920	2111	2437
54	213	281	316	331	415	460	502	587	643	755	826	891	1020	1180	1322	1656	1849	2033	2351
55	206	271	305	319	401	444	485	566	620	728	796	859	983	1137	1275	1596	1782	1960	2269
56	199	262	295	308	387	429	468	546	598	702	767	828	948	1096	1229	1539	1718	1890	2191
	97	126	142	148	183	204	223	256	281	322	350	387	443	505	559	695	769	872	948



# ASD

STANDARD LOAD TABLE/OPEN WEB STEEL JOISTS, LH-SERIES																			
Based on a 50 ksi Maximum Yield Strength - Loads Shown In Pounds Per Liner Foot (plf)																			
Joist Designation	32LH06	32LH07	32LH08	32LH09	32LH10	32LH11	32LH12	32LH13	32LH14	32LH15	32LH16	32LH17	32LH18	32LH19	32LH20	32LH21	32LH22	32LH23	32LH24
Depth (in.)	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
Approx. Wt. (lbs./ft.)	14	16	17	21	21	24	27	30	33	35	42	49	56	62	78	87	101	110	124
Span (ft.)																			
32	655	735	829	1099	1184	1296	1522	1789	1916	2050	2691								
33	629	705	793	1049	1131	1238	1453	1705	1827	1954	2561	2951							
34	605	678	760	1003	1080	1183	1388	1627	1742	1864	2440	2812							
35	581	651	728	959	1033	1131	1328	1553	1663	1779	2326	2681							
36	559	626	698	917	989	1082	1271	1484	1589	1700	2220	2558	2890						
37	537	602	670	878	947	1036	1217	1419	1519	1626	2120	2443	2760						
38	517	580	643	842	907	993	1166	1358	1454	1555	2026	2335	2638						
39	498	558	617	807	870	952	1118	1300	1392	1490	1938	2234	2524	2890					
40	479	538	593	774	834	913	1073	1246	1334	1427	1856	2139	2416	2763					
41	462	518	570	743	801	877	1030	1195	1279	1369	1778	2049	2315	2644					
42	445	499	549	714	770	842	989	1146	1228	1314	1705	1956	2220	2532					
43	430	482	528	687	740	810	951	1101	1179	1262	1629	1865	2130	2422					
44	414	465	509	660	712	779	915	1058	1133	1212	1555	1781	2046	2312	2900				
45	400	449	490	636	685	750	880	1017	1089	1166	1486	1702	1966	2210	2771				
46	386	433	473	612	660	722	848	979	1048	1122	1422	1628	1883	2114	2651	2961			
47	373	419	456	590	636	696	817	943	1009	1080	1361	1559	1803	2025	2539	2835			
48	361	405	440	566	613	671	788	908	972	1040	1305	1494	1729	1940	2433	2718	2990		
49	349	391	425	544	591	647	760	875	937	1003	1252	1434	1658	1862	2334	2607	2869		
50	338	379	411	516	571	625	734	843	907	970	1202	1376	1592	1787	2241	2503	2754		
51	326	366	397	498	550	602	712	801	826	853	1155	1323	1530	1717	2154	2405	2647	2985	
52	315	353	383	480	531	580	688	785	810	837	1111	1272	1471	1652	2071	2313	2545	2877	
53	304	341	369	463	512	560	664	771	795	821	1069	1224	1416	1589	1993	2226	2449	2775	2921
54	294	329	357	447	495	541	641	742	780	805	1029	1179	1364	1531	1920	2144	2359	2679	2813
55	284	318	345	432	478	522	619	715	766	791	992	1136	1314	1475	1850	2066	2273	2587	2711
56	275	308	333	418	462	505	598	690	738	776	957	1096	1267	1423	1784	1993	2192	2499	2614
57	266	298	322	404	445	488	578	666	713	763	923	1057	1223	1373	1722	1923	2116	2416	2523
58	257	288	312	391	430	473	559	643	688	750	891	1021	1181	1326	1662	1857	2043	2337	2436
59	249	279	302	379	416	458	541	621	665	725	861	986	1141	1281	1606	1794	1974	2262	2354
60	242	271	293	367	402	443	524	600	643	701	833	954	1103	1238	1553	1734	1908	2190	2275
61	234	262	284	356	389	429	508	581	622	678	805	922	1067	1198	1502	1678	1846	2122	2201
62	227	254	275	345	376	416	492	562	602	656	779	893	1033	1159	1454	1624	1786	2057	2130
63	220	247	267	335	364	403	477	544	583	635	755	864	1000	1123	1408	1572	1730	1994	2063
64	214	240	259	325	353	390	463	527	564	616	731	837	969	1088	1364	1523	1676	1934	1998



## METRIC LOAD TABLE/OPEN WEB STEEL JOISTS, LH-SERIES

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

Joist Designation	28LH05	28LH06	28LH07	28LH08	28LH09	28LH10	28LH11	28LH12	28LH13	28LH14	28LH15	28LH16	28LH17	28LH18	28LH19	28LH20	28LH21	28LH22	28LH23
Depth (mm)	711	711	711	711	711	711	711	711	711	711	711	711	711	711	711	711	711	711	711
Approx. Wt. (kN/m)	0.19	0.23	0.25	0.26	0.31	0.34	0.36	0.39	0.44	0.51	0.55	0.61	0.72	0.82	0.92	1.15	1.28	1.49	1.62
Span (mm)																			
↓																			
8534	9.13 9.13	12.12 12.12	14.12 14.12	15.11 15.11	19.58 19.58	20.98 20.98	22.91 22.91	26.83 26.83	29.68 28.37	35.88 35.88	38.89 38.89								
8839	8.69 8.69	11.54 11.54	13.42 13.42	14.34 14.34	18.54 18.54	19.87 19.87	21.70 21.70	25.40 24.43	28.04 25.49	33.91 33.91	36.74 36.74	43.22 41.43							
9144	8.28 8.28	11.01 11.01	12.75 12.75	13.63 13.63	17.57 17.30	18.84 18.84	20.56 20.13	24.09 22.03	26.53 22.99	32.09 31.08	34.77 33.81	40.83 37.37							
9449	7.90 7.90	10.50 10.50	12.12 11.93	12.97 12.74	16.68 15.67	17.87 17.06	19.51 18.22	22.85 19.94	25.13 20.82	30.39 28.13	32.93 30.61	38.63 33.84							
9754	7.54 7.28	10.02 9.60	11.54 10.84	12.34 11.57	15.83 14.22	16.97 15.49	18.53 16.54	21.71 18.12	23.83 18.91	28.82 25.55	31.23 27.80	36.58 30.73	42.14 35.11						
10058	7.20 6.62	9.57 8.75	10.98 9.88	11.76 10.53	15.06 12.95	16.14 14.11	17.61 15.07	20.63 16.50	22.62 17.23	27.36 23.27	29.65 25.32	34.68 27.99	39.95 31.98						
10363	6.88 6.05	9.15 7.99	10.47 9.01	11.20 9.63	14.33 11.83	15.35 12.88	16.76 13.77	19.64 15.07	21.51 15.74	26.00 21.26	28.18 23.13	32.93 25.56	37.82 29.21	42.84 33.36					
10668	6.58 5.54	8.75 7.32	9.99 8.26	10.69 8.81	13.64 10.84	14.62 11.80	15.96 12.62	18.70 13.80	20.46 14.41	24.73 19.48	26.80 21.19	31.18 23.42	35.68 26.76	40.73 30.55					
10973	6.30 5.09	8.37 6.72	9.54 7.58	10.21 8.09	13.01 9.95	13.95 10.84	15.22 11.58	17.84 12.68	19.48 13.23	23.53 17.89	25.53 19.45	29.45 21.51	33.71 24.57	38.74 28.06	43.70 31.04				
11278	6.04 4.68	8.02 6.18	9.12 6.97	9.76 7.45	12.41 9.16	13.30 9.98	14.53 10.66	17.01 11.67	18.56 12.18	22.46 16.46	24.34 17.90	27.87 19.78	31.90 22.62	36.87 25.83	41.34 28.57				
11582	5.77 4.31	7.69 5.70	8.72 6.43	9.34 6.87	11.86 8.44	12.71 9.20	13.87 9.83	16.24 10.77	17.71 11.23	21.42 15.17	23.21 16.52	26.41 18.25	30.22 20.85	34.95 23.81	39.18 26.35				
11887	5.54 3.99	7.36 5.28	8.36 5.95	8.93 6.34	11.33 7.82	12.15 8.50	13.26 9.09	15.54 9.95	16.92 10.39	20.46 14.03	22.18 15.26	25.05 16.88	28.67 19.27	33.17 22.02	37.18 24.37				
12192	5.32 3.70	7.07 4.88	8.01 5.51	8.56 5.88	10.84 7.23	11.63 7.88	12.69 8.42	14.87 9.22	16.17 9.61	19.55 13.00	21.20 14.14	23.81 15.63	27.24 17.86	31.50 20.40	35.33 22.56				
12497	5.10 3.44	6.80 4.53	7.67 5.12	8.20 5.45	10.33 6.71	11.13 7.31	12.15 7.82	14.24 8.55	15.46 8.93	18.70 12.06	20.28 13.11	22.66 14.50	25.93 16.57	29.99 18.92	33.60 20.94	42.08 26.00			
12802	4.91 3.19	6.53 4.21	7.36 4.75	7.88 5.07	9.73 6.24	10.63 6.80	11.38 7.26	12.50 7.95	13.06 8.30	17.92 11.22	19.42 12.20	21.58 13.48	24.69 15.41	28.56 17.60	32.01 19.46	40.08 24.18			
13106	4.71 2.99	6.26 3.94	7.06 4.45	7.54 4.74	9.32 5.83	10.27 6.40	11.12 6.93	12.21 7.58	12.75 7.92	17.17 10.44	18.60 11.36	20.57 12.56	23.55 14.34	27.23 16.38	30.53 18.14	38.23 22.51	42.68 24.92		
13411	4.52 2.80	6.01 3.69	6.77 4.15	7.23 4.45	8.93 5.47	9.90 6.04	10.74 6.53	11.93 7.23	12.46 7.55	16.47 9.74	17.84 10.59	19.64 11.71	22.48 13.38	26.00 15.29	29.15 16.91	36.49 21.00	40.76 23.24		
13716	4.33 2.62	5.76 3.47	6.49 3.89	6.93 4.15	8.55 5.12	9.50 5.66	10.37 6.17	11.67 6.94	12.18 7.22	15.80 9.10	17.13 9.90	18.78 10.94	21.49 12.50	24.85 14.28	27.85 15.80	34.87 19.62	38.95 21.73	42.84 24.63	
14021	4.17 2.46	5.53 3.25	6.23 3.66	6.65 3.91	8.21 4.80	9.12 5.31	9.95 5.79	11.41 6.62	11.90 6.88	15.17 8.52	16.46 9.26	17.96 10.24	20.56 11.70	23.77 13.36	26.66 14.78	33.37 18.35	37.25 20.32	40.97 23.04	
14326	4.01 2.32	5.31 3.05	5.98 3.44	6.39 3.67	7.88 4.50	8.75 4.99	9.55 5.44	11.17 6.34	11.66 6.59	14.57 7.98	15.81 8.68	17.20 9.60	19.68 10.96	22.76 12.52	25.52 13.86	31.96 17.20	35.68 19.04	39.24 21.59	
14630	3.86 2.18	5.10 2.87	5.74 3.23	6.12 3.44	7.57 4.24	8.40 4.69	9.17 5.12	10.75 5.95	11.41 6.31	13.98 7.48	15.22 8.14	16.49 9.00	18.86 10.28	21.81 11.74	24.45 13.00	30.63 16.14	34.20 17.87	37.62 20.27	43.05 22.03
14935	3.72 2.07	4.91 2.71	5.53 3.05	5.88 3.23	7.28 3.99	8.08 4.42	8.82 4.83	10.34 5.58	11.17 6.05	13.41 7.03	14.65 7.66	15.81 8.46	18.09 9.67	20.92 11.04	23.46 12.21	29.39 15.17	32.80 16.79	36.09 19.04	41.38 20.70
15240	3.57 1.94	4.72 2.55	5.32 2.87	5.64 3.05	7.01 3.76	7.77 4.15	8.49 4.55	9.95 5.26	10.96 5.77	12.87 6.62	14.06 7.19	15.19 7.96	17.38 9.09	20.09 10.39	22.53 11.49	28.21 14.27	31.50 15.80	34.64 17.92	39.79 19.48
15545	3.45 1.83	4.56 2.42	5.13 2.71	5.41 2.86	6.75 3.54	7.48 3.92	8.18 4.29	9.57 4.96	10.53 5.44	12.37 6.23	13.51 6.78	14.59 7.50	16.69 8.56	19.30 9.77	21.65 10.82	27.11 13.44	30.26 14.88	33.28 16.87	38.30 18.34
15850	3.32 1.73	4.39 2.27	4.94 2.56	5.21 2.69	6.50 3.32	7.22 3.72	7.88 4.05	9.22 4.68	10.12 5.13	11.89 5.88	13.00 6.39	14.03 7.07	16.06 8.08	18.57 9.22	20.82 10.21	26.06 12.68	29.11 14.03	32.01 15.90	36.90 17.30
16154	3.21 1.64	4.24 2.15	4.74 2.42	5.02 2.55	6.27 3.15	6.96 3.51	7.60 3.83	8.88 4.42	9.74 4.84	11.44 5.54	12.50 6.04	13.49 6.66	15.45 7.63	17.87 8.71	20.03 9.63	25.08 11.96	28.02 13.25	30.80 15.01	35.56 16.33
16459	3.10 1.56	4.10 2.04	4.61 2.30	4.83 2.40	6.05 2.97	6.71 3.32	7.32 3.63	8.56 4.15	9.38 4.58	11.01 5.23	12.05 5.70	13.00 6.30	14.88 7.20	17.22 8.23	19.29 9.10	24.16 11.31	26.98 12.52	29.66 14.19	34.31 15.44
16764	3.00 1.48	3.95 1.94	4.45 2.18	4.65 2.27	5.85 2.81	6.47 3.13	7.07 3.44	8.26 3.94	9.04 4.33	10.62 4.96	11.61 5.39	12.53 5.96	14.34 6.81	16.59 7.79	18.60 8.62	23.29 10.69	26.00 11.85	28.60 13.44	33.11 14.60
17069	2.90 1.41	3.82 1.83	4.30 2.07	4.49 2.15	5.64 2.67	6.26 2.97	6.82 3.25	7.96 3.73	8.72 4.10	10.24 4.69	11.19 5.10	12.08 5.64	13.83 6.46	15.99 7.36	17.93 8.15	22.46 10.14	25.07 11.22	27.58 12.72	31.97 13.83



**METRIC LOAD TABLE/OPEN WEB STEEL JOISTS, LH-SERIES**  
Based on a 345 MPa Maximum Yield Strength - Loads Shown In Kilonewtons Per Meter (kN/m)

Joist Designation	32LH06	32LH07	32LH08	32LH09	32LH10	32LH11	32LH12	32LH13	32LH14	32LH15	32LH16	32LH17	32LH18	32LH19	32LH20	32LH21	32LH22	32LH23	32LH24
Depth (mm)	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813
Approx. Wt. (kN/m)	0.20	0.23	0.25	0.31	0.31	0.35	0.39	0.44	0.48	0.51	0.61	0.72	0.82	0.90	1.14	1.27	1.47	1.61	1.81
Span (mm)																			
9754	9.55 9.55	10.72 10.72	12.09 12.09	16.03 16.03	17.27 17.27	18.91 18.91	22.21 22.21	26.10 26.10	27.96 27.96	29.91 29.91	39.27 39.27								
10058	9.17 9.17	10.28 10.28	11.57 11.57	15.30 15.30	16.50 16.50	18.06 18.06	21.20 21.20	24.88 24.88	26.66 26.66	28.51 28.51	37.37 37.37	43.06 43.06							
10363	8.82 8.82	9.89 9.89	11.09 11.09	14.63 14.63	15.76 15.76	17.26 17.26	20.25 20.25	23.74 23.74	25.42 25.42	27.20 27.20	35.60 35.60	41.03 41.03							
10668	8.47 8.47	9.50 9.50	10.62 10.62	13.99 13.99	15.07 15.07	16.50 16.50	19.38 19.38	22.66 22.66	24.26 24.26	25.96 25.96	33.94 33.94	39.12 39.12							
10973	8.15 8.15	9.13 9.13	10.18 10.18	13.38 13.38	14.43 14.43	15.79 15.79	18.54 18.54	21.65 21.65	23.18 23.18	24.80 24.80	32.39 32.39	37.33 37.33	42.17 42.17						
11278	7.83 7.64	8.78 8.52	9.77 9.25	12.81 11.57	13.82 12.76	15.11 13.96	17.76 16.31	20.70 18.14	22.16 18.68	23.72 19.29	30.93 26.34	35.65 30.13	40.27 34.42						
11582	7.54 7.06	8.46 7.86	9.38 8.53	12.28 10.66	13.23 11.77	14.49 12.88	17.01 15.06	19.81 16.72	21.21 17.23	22.69 17.80	29.56 24.29	34.07 27.80	38.49 31.75						
11887	7.26 6.52	8.14 7.26	9.00 7.88	11.77 9.86	12.69 10.88	13.89 11.90	16.31 13.92	18.97 15.46	20.31 15.92	21.74 16.44	28.28 22.46	32.60 25.69	36.83 29.36	42.17 32.54					
12192	6.99 6.04	7.85 6.72	8.65 7.31	11.29 9.13	12.17 10.08	13.32 11.03	15.65 12.88	18.18 14.31	19.46 14.75	20.82 15.23	27.08 20.81	31.21 23.80	35.25 27.18	40.32 30.15					
12497	6.74 5.60	7.55 6.24	8.31 6.78	10.84 8.47	11.68 9.35	12.79 10.23	15.03 11.96	17.43 13.29	18.66 13.68	19.97 14.14	25.94 19.30	29.90 22.08	33.78 25.23	38.58 27.97					
12802	6.49 5.21	7.28 5.80	8.01 6.30	10.42 7.88	11.23 8.69	12.28 9.51	14.43 11.12	16.72 12.36	17.92 12.72	19.17 13.14	24.88 17.95	28.54 20.53	32.39 23.46	36.95 26.00					
13106	6.27 4.85	7.03 5.41	7.70 5.86	10.02 7.34	10.79 8.09	11.82 8.85	13.87 10.36	16.06 11.51	17.20 11.85	18.41 12.24	23.77 16.72	27.21 19.11	31.08 21.84	35.34 24.22					
13411	6.04 4.52	6.78 5.04	7.42 5.47	9.63 6.84	10.39 7.55	11.36 8.27	13.35 9.66	15.44 10.74	16.53 11.06	17.68 11.42	22.69 15.60	25.99 17.83	29.85 20.38	33.74 22.59	42.32 28.12				
13716	5.83 4.23	6.55 4.71	7.15 5.12	9.28 6.40	9.99 7.06	10.94 7.72	12.84 9.03	14.84 10.02	15.89 10.33	17.01 10.66	21.68 14.56	24.83 16.66	28.69 19.04	32.25 21.11	40.43 26.28				
14021	5.63 3.95	6.31 4.40	6.90 4.78	8.93 5.98	9.63 6.61	10.53 7.22	12.37 8.44	14.28 9.38	15.29 9.67	16.37 9.98	20.75 13.63	23.75 15.60	27.48 17.81	30.85 19.76	38.68 24.59	43.21 27.23			
14326	5.44 3.70	6.11 4.13	6.65 4.48	8.61 5.61	9.28 6.18	10.15 6.77	11.92 7.90	13.76 8.80	14.72 9.06	15.76 9.35	19.86 12.76	22.75 14.60	26.31 16.69	29.55 18.50	37.05 23.04	41.37 25.52			
14630	5.26 3.48	5.91 3.88	6.42 4.20	8.26 5.26	8.94 5.80	9.79 6.36	11.49 7.42	13.25 8.26	14.18 8.50	15.17 8.78	19.04 11.98	21.80 13.71	25.23 15.67	28.31 17.36	35.50 21.62	39.66 23.94	43.63 27.17		
14935	5.09 3.26	5.70 3.64	6.20 3.95	7.93 4.94	8.62 5.45	9.44 5.96	11.09 7.74	12.76 7.98	13.67 8.24	14.63 8.24	18.27 11.26	20.92 12.88	24.19 14.72	27.17 16.31	34.06 20.31	38.04 22.50	41.86 25.53		
15240	4.93 3.07	5.53 3.42	5.99 3.72	7.53 4.65	8.33 5.13	9.12 5.61	10.71 6.56	11.92 7.29	12.30 7.51	12.69 7.76	17.54 10.59	20.08 12.12	23.23 13.84	26.07 15.35	32.70 19.11	36.52 21.17	40.19 24.02		
15545	4.75 2.90	5.34 3.25	5.79 3.53	7.26 4.40	8.02 4.84	8.78 5.29	10.39 6.24	11.68 7.00	12.05 7.22	12.44 7.45	16.85 9.98	19.30 11.41	22.32 13.04	25.05 14.46	31.43 18.00	35.09 19.93	38.63 22.62	43.56 24.64	
15850	4.59 2.75	5.15 3.07	5.58 3.34	7.00 4.15	7.74 4.59	8.46 5.00	10.04 5.92	11.45 6.72	11.82 6.94	12.21 7.18	16.21 9.41	18.56 10.77	21.46 12.30	24.10 13.64	30.22 16.97	33.75 18.79	37.14 21.33	41.98 23.24	
16154	4.43 2.61	4.97 2.91	5.38 3.15	6.75 3.94	7.47 4.33	8.17 4.74	9.69 5.60	11.25 6.47	11.60 6.68	11.98 6.90	15.60 8.88	17.86 10.17	20.66 11.61	23.18 12.87	29.08 16.02	32.48 17.74	35.74 20.13	40.49 21.94	42.62 23.75
16459	4.29 2.46	4.80 2.75	5.21 2.99	6.52 3.73	7.22 4.11	7.89 4.49	9.35 5.31	10.82 6.12	11.38 6.42	11.74 6.62	15.01 8.39	17.20 9.60	19.90 10.97	22.34 12.17	28.02 15.14	31.28 16.78	34.42 19.04	39.09 20.73	41.05 22.46
16764	4.14 2.34	4.64 2.61	5.03 2.83	6.30 3.54	6.97 3.89	7.61 4.26	9.03 5.03	10.43 5.79	11.17 6.08	11.54 6.39	14.47 7.93	16.57 9.09	19.17 10.39	21.52 11.51	26.99 14.33	30.15 15.87	33.17 18.00	37.75 19.61	39.56 21.24
17069	4.01 2.23	4.49 2.48	4.85 2.68	6.10 3.35	6.74 3.70	7.36 4.04	8.72 4.77	10.06 5.48	10.77 5.76	11.32 6.15	13.96 7.53	15.99 8.61	18.49 9.83	20.76 10.90	26.03 13.57	29.08 15.03	31.98 17.06	36.47 18.57	38.14 20.12
17374	3.88 2.11	4.34 2.36	4.69 2.55	5.89 3.19	6.49 3.50	7.12 3.83	8.43 4.53	9.71 5.16	10.40 5.45	11.13 5.93	13.47 7.13	15.42 8.15	17.84 9.32	20.03 10.33	25.13 12.87	28.06 14.25	30.88 16.17	35.25 17.61	36.82 19.07
17678	3.75 2.01	4.20 2.24	4.55 2.43	5.70 3.03	6.27 3.32	6.90 3.66	8.15 4.30	9.38 4.90	10.04 5.18	10.94 5.73	13.00 6.77	14.90 7.74	17.23 8.84	19.35 9.80	24.25 12.21	27.10 13.52	29.81 15.33	34.10 16.71	35.55 18.09
17983	3.63 1.91	4.07 2.13	4.40 2.32	5.53 2.88	6.07 3.16	6.68 3.48	7.89 4.10	9.06 4.65	9.70 4.91	10.58 5.45	12.56 6.42	14.38 7.35	16.65 8.40	18.69 9.31	23.43 11.58	26.18 12.84	28.80 14.57	33.01 15.87	34.35 17.19
18288	3.53 1.82	3.95 2.04	4.27 2.20	5.35 2.75	5.86 3.00	6.46 3.31	7.64 3.89	8.75 4.43	9.38 4.68	10.23 5.18	12.15 6.11	13.92 6.99	16.09 7.98	18.06 8.85	22.66 11.01	25.30 12.20	27.84 13.84	31.96 15.09	33.20 16.34
18593	3.41 1.73	3.82 1.94	4.14 2.10	5.19 2.62	5.67 2.86	6.26 3.15	7.41 3.72	8.47 4.20	9.07 4.43	9.89 4.93	11.74 5.80	13.45 6.65	15.57 7.60	17.48 8.42	21.92 10.47	24.48 11.61	26.94 13.17	30.96 14.36	32.12 15.54
18898	3.31 1.66	3.70 1.85	4.01 1.99	5.03 2.51	5.48 2.71	6.07 3.00	7.18 3.54	8.20 4.01	8.78 4.23	9.57 4.69	11.36 5.53	13.03 6.33	15.07 7.23	16.91 8.01	21.21 9.98	23.70 11.06	26.06 12.55	30.01 13.67	31.08 14.79
19202	3.21 1.57	3.60 1.76	3.89 1.91	4.88 2.39	5.31 2.59	5.88 2.86	6.96 3.38	7.93 3.82	8.50 4.02	9.26 4.46	11.01 5.26	12.60 6.02	14.59 6.88	16.38 7.64	20.54 9.51	22.94 10.53	25.24 11.95	29.10 13.01	30.10 14.09
19507	3.12 1.51	3.50 1.69	3.77 1.82	4.74 2.29	5.15 2.46	5.69 2.72	6.75 3.22	7.69 3.63	8.23 3.85	8.98 4.26	10.66 5.02	12.21 5.74	14.14 6.56	15.87 7.28	19.90 9.07	22.22 10.04	24.45 11.39	28.22 12.41	29.15 13.45

