

To assure easy identification of the high strength "H" Series joists on the job, a blue marking is provided on the top chord at the bearing end of all Laclede "H" Series joists.

"H" SERIES



Laclede H-Series Steel Joists may be arranged to provide a wide range of loading conditions. This design feature may be readily achieved through selection of the appropriate size and spacing of the joists. Design stresses based upon steel of 50,000 PSI minimum yield strength are used in

H-Series Steel Joists with appropriate controls on loading and deflection.

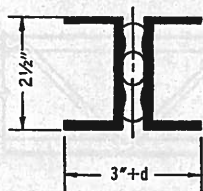
The lightness of open web steel joist construction permits the use of lighter framing and footings. Where poor soil conditions must be considered, the light weight of such construction makes its use particularly desirable.

TABLE OF STEEL JOIST DIMENSIONS "H" SERIES

Steel Joist Type No.	Joist Dimensions		Web		Top Chord—2 Angles			Bottom Chord—2 Angles			Approx. Weight Pounds Per Foot*	Maximum Span Developing Full Shear
	Depth "D" **	Panel Max. "K"	Di- ameter "d"	Area Sq. In.	Size Inches	Area Sq. In.	"Gr" In.	Size Inches	Area Sq. In.	"Gb" In.		
8H2	8"	15"	$\frac{25}{64}$ "	.120	1½x1¼x.085	.446	.331	1½x1¼x.085	.446	.331	3.79	12' 2"
10H2	10"	16"	$\frac{27}{64}$ "	.140	1½x1¼x.085	.446	.331	1½x1¼x.085	.446	.331	3.94	13' 9"
10H3	10"	16"	$\frac{29}{64}$ "	.161	1½x1¼x.106	.557	.338	1½x1¼x.085	.446	.331	4.46	15' 6"
10H4	10"	16"	$\frac{15}{32}$ "	.173	1½x1¼x.120	.707	.354	1½x1¼x.106	.557	.338	5.44	17' 7"
12H2	12"	18"	$\frac{15}{32}$ "	.173	1½x1¼x.085	.446	.331	1½x1¼x.085	.446	.331	4.15	15' 5"
12H3	12"	18"	$\frac{17}{32}$ "	.196	1½x1¼x.106	.557	.338	1½x1¼x.085	.446	.331	4.69	16' 8"
12H4	12"	18"	$\frac{33}{64}$ "	.209	1½x1¼x.120	.707	.354	1½x1¼x.106	.557	.338	5.68	18' 9"
12H5	12"	18"	$\frac{35}{64}$ "	.235	1½x1¼x.150	.856	.360	1½x1¼x.120	.707	.354	6.86	20' 7"
12H6	12"	18"	$\frac{9}{16}$ "	.249	1½x1¼x.185	1.025	.368	1½x1¼x.136	.787	.357	7.84	22' 3"
14H3	14"	22"	$\frac{9}{16}$ "	.249	1½x1¼x.106	.557	.338	1½x1¼x.085	.446	.331	4.95	17' 2"
14H4	14"	22"	$\frac{37}{64}$ "	.262	1½x1¼x.120	.707	.354	1½x1¼x.106	.557	.338	5.92	20' 2"
14H5	14"	22"	$\frac{19}{32}$ "	.277	1½x1¼x.150	.856	.360	1½x1¼x.120	.707	.354	7.04	22' 9"
14H6	14"	22"	$\frac{5}{8}$ "	.307	1½x1¼x.185	1.025	.368	1½x1¼x.136	.787	.357	8.10	24' 4"
14H7	14"	22"	$\frac{41}{64}$ "	.322	1½x1¼x.230	1.235	.381	1½x1¼x.170	.953	.365	9.47	26' 9"
16H4	16"	24"	$\frac{5}{8}$ "	.307	1½x1¼x.120	.707	.354	1½x1¼x.106	.557	.338	6.23	19' 5"
16H5	16"	24"	$\frac{21}{32}$ "	.338	1½x1¼x.150	.856	.360	1½x1¼x.120	.707	.354	7.46	22' 5"
16H6	16"	24"	$\frac{43}{64}$ "	.355	1½x1¼x.185	1.025	.368	1½x1¼x.136	.787	.357	8.44	24' 11"
16H7	16"	24"	$\frac{11}{16}$ "	.371	1½x1¼x.230	1.235	.381	1½x1¼x.170	.953	.365	9.83	28' 1"
16H8	16"	24"	$\frac{11}{16}$ "	.371	1½x1¼x.275	1.437	.394	1½x1¼x.195	1.072	.371	10.95	30' 8"
18H5	18"	24"	$\frac{11}{16}$ "	.371	1½x1¼x.150	.856	.360	1½x1¼x.120	.707	.354	7.80	24' 1"
18H6	18"	24"	$\frac{45}{64}$ "	.388	1½x1¼x.185	1.025	.368	1½x1¼x.136	.787	.357	8.79	26' 7"
18H7	18"	24"	$\frac{23}{32}$ "	.406	1½x1¼x.230	1.235	.381	1½x1¼x.170	.953	.365	10.20	29' 10"
18H8	18"	24"	$\frac{47}{64}$ "	.424	1½x1¼x.275	1.437	.394	1½x1¼x.195	1.072	.371	11.44	33' 4"
20H5	20"	24"	$\frac{23}{32}$ "	.406	1½x1¼x.150	.856	.360	1½x1¼x.120	.707	.354	8.21	25' 4"
20H6	20"	24"	$\frac{47}{64}$ "	.424	1½x1¼x.185	1.025	.368	1½x1¼x.120	.707	.354	8.94	26' 6"
20H7	20"	24"	$\frac{3}{4}$ "	.442	1½x1¼x.220	1.189	.378	1½x1¼x.150	.856	.360	10.14	30' 10"
20H8	20"	24"	$\frac{49}{64}$ "	.460	1½x1¼x.275	1.437	.394	1½x1¼x.195	1.072	.371	11.87	35' 10"
22H6	22"	24"	$\frac{25}{32}$ "	.479	1½x1¼x.170	.953	.365	1½x1¼x.120	.707	.354	9.28	26' 1"
22H7	22"	24"	$\frac{25}{32}$ "	.479	1½x1¼x.220	1.189	.378	1½x1¼x.150	.856	.360	10.61	31' 4"
22H8	22"	24"	$\frac{51}{64}$ "	.499	1½x1¼x.275	1.437	.394	1½x1¼x.185	1.025	.368	12.21	37' 6"
24H6	24"	24"	$\frac{13}{16}$ "	.518	1½x1¼x.170	.953	.365	1½x1¼x.120	.707	.354	9.81	27' 6"
24H7	24"	24"	$\frac{53}{64}$ "	.539	1½x1¼x.220	1.189	.378	1½x1¼x.150	.856	.360	11.31	33' 1"
24H8	24"	24"	$\frac{53}{64}$ "	.539	1½x1¼x.275	1.437	.394	1½x1¼x.185	1.025	.368	12.77	39' 9"

*Based on Laclede sections — See Bureau of Standards simplified practice recommendation for estimated S.J.I. weights.

**Depth "D" — Allowable tolerance $\pm \frac{1}{4}$ inch.

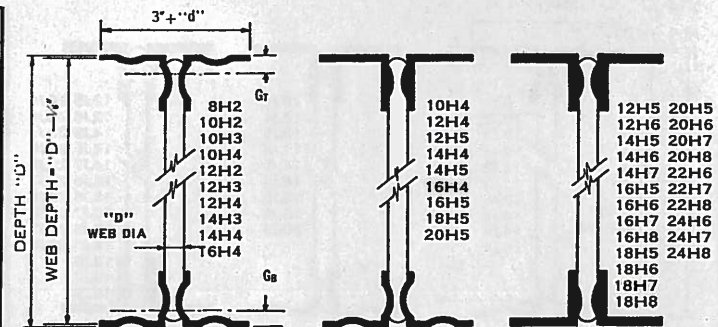


Cross Section
Standard End Bearing

Bearing angles same size, top and bottom, as top chord of joist, unless otherwise specified.

Angle sections 2 and 3 are cold, roll-formed angles. All other angles are hot-rolled sections.

All Type 1 Bearing Ends are 2 ½" deep unless otherwise specified. Special depth ends can be fabricated to the nearest ¼" with only a slight additional charge.



Steel Joist Cross Section
"H" Series