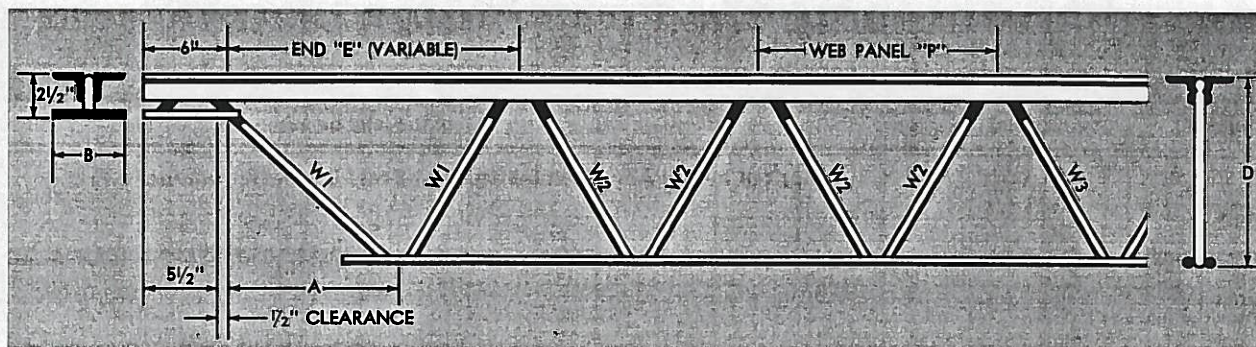


PACAL open web steel joists

J and H series / PROPERTIES & DIMENSIONS



1970 - PAPER-CALMUSON



JOIST DESIGNATION J H	JOIST DEPTH NOM. INCHES	TOP CHORD SPC. NO.	BOTTOM CHORD Two rd. bars DIA. Inches	WEB MEMBERS			A Inches	B Inches	P Inches	E VARIES WITH SPAN		*APPROX. WEIGHTS LBS. PER LIN. FT.
				W1 One rd. bar DIA. Inches	W2 One rd. bar DIA. Inches	W3 One rd. bar DIA. Inches				MIN. Inches	MAX. Inches	
8J2 8H2	8	2	.500	.563	.500	.500	12"	3 1/2"	18	12 1/2"	21 1/2"	4.2
10J2 10H2	10	2	.500	.594	.500	.500	12"	3 1/2"	18	12 1/2"	21 1/2"	4.2
10J3 10H3	10	3	.563	.594	.500	.500	12"	3 1/2"	18	12 1/2"	21 1/2"	5.0
10J4 10H4	10	4	.594	.594	.563	.500	12"	3 1/2"	18	12 1/2"	21 1/2"	6.1
12J2 12H2	12	2	.500	.641	.563	.563	12"	3 1/2"	18	12 1/2"	21 1/2"	4.5
12J3 12H3	12	3	.563	.594	.594	.594	12"	3 1/2"	18	12 1/2"	21 1/2"	5.2
12J4 12H4	12	4	.594	.594	.594	.594	12"	3 1/2"	18	12 1/2"	21 1/2"	6.2
12J5 12H5	12	5	.641	.594	.594	.594	12"	3 1/2"	18	12 1/4"	21 1/2"	7.1
12J6 12H6	12	6	.703	.594	.594	.594	12"	3 1/2"	18	12 1/2"	21 1/2"	8.2
14J3 14H3	14	3	.563	.641	.594	.594	14 1/2"	4 1/2"	18	15"	24"	5.5
14J4 14H4	14	4	.594	.641	.594	.594	14 1/2"	4 1/2"	18	15"	24"	6.5
14J5 14H5	14	5	.641	.641	.594	.594	14 1/2"	4 1/2"	18	15"	24"	7.4
14J6 14H6	14	6	.703	.641	.594	.594	14 1/2"	4 1/2"	18	15"	24"	8.6
14J7 14H7	14	7	.781	.641	.641	.594	14 1/2"	4 1/2"	18	15"	24"	10.0
16J4 16H4	16	4	.594	.781	.703	.703	17"	4 1/2"	24	17 1/2"	29 1/2"	6.6
16J5 16H5	16	5	.641	.781	.703	.703	17"	4 1/2"	24	17 1/2"	29 1/2"	7.8
16J6 16H6	16	6	.703	.781	.703	.703	17"	4 1/2"	24	17 1/2"	29 1/2"	8.6
16J7 16H7	16	7	.781	.781	.703	.703	17"	4 1/2"	24	17 1/2"	29 1/2"	10.3
16J8 16H8	16	8	.828	.781	.703	.703	17"	4 1/2"	24	17 1/2"	29 1/2"	11.4
18J5 18H5	18	5	.641	.781	.703	.703	19 1/2"	4 1/2"	24	20"	32"	8.0
18J6 18H6	18	6	.703	.781	.703	.703	19 1/2"	4 1/4"	24	20"	32"	9.2
18J7 18H7	18	7	.781	.781	.703	.703	19 1/2"	4 1/2"	24	20"	32"	10.4
18J8 18H8	18	8	.828	.781	.781	.703	19 1/2"	4 1/2"	24	20"	32"	11.6
20J5 20H5	20	5	.641	.781	.781	.703	22"	4 1/2"	24	22 1/2"	34 1/2"	8.4
20J6 20H6	20	6	.703	.781	.781	.703	22"	4 1/2"	24	22 1/2"	34 1/2"	9.6
20J7 20H7	20	7	.781	.781	.781	.703	22"	4 1/2"	24	22 1/2"	34 1/2"	10.7
20J8 20H8	20	8	.828	.781	.781	.703	22"	4 1/2"	24	22 1/2"	34 1/2"	12.2
22J6 22H6	22	6	.703	.828	.781	.781	24 1/2"	4 1/2"	24	25"	37"	9.7
22J7 22H7	22	7	.781	.828	.781	.781	24 1/2"	4 1/2"	24	25"	37"	10.7
22J8 22H8	22	8	.828	.828	.781	.781	24 1/2"	4 1/2"	24	25"	37"	12.0
24J6 24H6	24	6	.703	.828	.781	.781	27"	4 1/2"	24	27 1/2"	39 1/2"	10.3
24J7 24H7	24	7	.781	.828	.828	.781	27"	4 1/2"	24	27 1/2"	39 1/2"	11.5
24J8 24H8	24	8	.828	.828	.828	.781	27"	4 1/2"	24	27 1/2"	39 1/2"	12.7

*The weights per foot as shown are approximate only and cannot be used for figuring prices or determining weights for shipping.

Material used for chords and webs of "H" series open-web steel joists is tested for minimum yield strength of 50,000 psi.

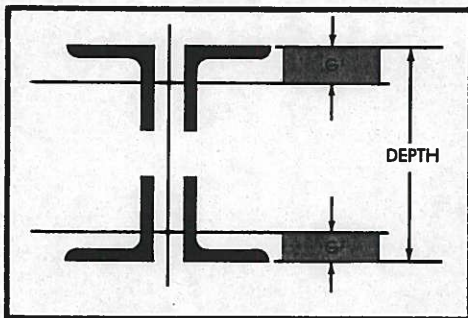
Material used for chords and webs of "J" series open-web steel joists is tested for minimum yield strength of 36,000 psi.

All dimensions are subject to slight mill and manufacturing tolerances.

PACAL LJ series

PROPERTIES & DIMENSIONS

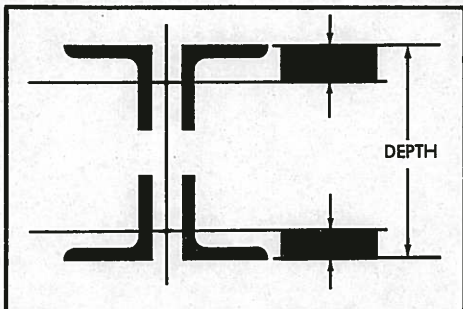
Joist Designation	TOP CHORD (Long Legs Vertical)				BOTTOM CHORD (Short Legs Vertical)			Approx. Weight Per Foot
	2 Angles	Area In. ²	G ¹ In.	r _x In.	2 Angles	Area In. ²	G ² In.	
LJ02	2 x 1½ x ⅜ ₁₆	1.24	0.64	0.63	1½ x 1½ x ⅜ ₁₆	1.06	0.44	13
LJ03	2 x 2 x ⅜ ₁₆	1.42	0.57	0.62	1½ x 1½ x ⅜ ₁₆	1.06	0.44	14
LJ04	2½ x 2 x ⅜ ₁₆	1.62	0.76	0.79	1¾ x 1¾ x ⅜ ₁₆	1.24	0.51	16
LJ05	2 x 2 x ¼	1.88	0.59	0.61	2 x 2 x ⅜ ₁₆	1.42	0.57	17
LJ06	2½ x 2 x ¼	2.12	0.79	0.78	2½ x 2 x ⅜ ₁₆	1.62	0.51	19
LJ07	2½ x 2½ x ¼	2.38	0.72	0.77	2½ x 2½ x ⅜ ₁₆	1.80	0.69	20
LJ08	3 x 2½ x ¼	2.62	0.91	0.95	2½ x 2 x ¼	2.12	0.54	23
LJ09	3 x 3 x ¼	2.88	0.84	0.93	2½ x 2½ x ¼	2.38	0.72	25
LJ10	3½ x 3 x ¼	3.12	1.04	1.11	3 x 2½ x ¼	2.62	0.66	27
LJ11	3 x 3 x ⅝ ₁₆	3.56	0.87	0.92	3 x 3 x ¼	2.88	0.84	29
LJ12	3½ x 3 x ⅝ ₁₆	3.86	1.06	1.10	3½ x 3 x ¼	3.12	0.79	31
LJ13	3½ x 3 x ⅜	4.60	1.08	1.09	3 x 3 x ⅝ ₁₆	3.56	0.87	36
LJ14	4 x 3 x ⅜	4.96	1.28	1.26	3½ x 3 x ⅝ ₁₆	3.86	0.81	38
LJ15	4 x 4 x ⅜	5.72	1.14	1.23	3½ x 3½ x ⅝ ₁₆	4.18	0.99	42
LJ16	4 x 4 x ⅞ ₁₆	6.62	1.16	1.23	3½ x 3½ x ⅜	4.96	1.01	48
LJ17	4 x 4 x ½	7.50	1.18	1.22	4 x 4 x ⅜	5.72	1.14	54
LJ18	5 x 5 x ⅞ ₁₆	8.36	1.41	1.55	4 x 4 x ⅞ ₁₆	6.62	1.16	60
LJ19	5 x 5 x ½	9.50	1.43	1.54	4 x 4 x ½	7.50	1.18	68



Material used in fabrication of LJ series longspan joist is tested for minimum yield strength of 36,000 psi.

1970 - PAPER-CALCULUS

Joist Designation	TOP CHORD (Long Legs Vertical)				BOTTOM CHORD (Long Legs Vertical)			
	2 Angles	Area In. ²	G ¹ In.	r _x In.	Joist Depth	2 Angles	Area In. ²	G ² In.
LH02	1 3/4 x 1 3/4 x 3/16	1.24	0.51	0.54	18" to 20"	1 1/2 x 1 1/2 x 3/16	1.06	0.44
LH03	2 x 2 x 3/16	1.42	0.57	0.62	18" to 24" Incl.	1 1/2 x 1 1/2 x 3/16	1.06	0.44
LH04	2 x 2 x 1/4	1.88	0.59	0.61	18" to 24" Incl.	1 3/4 x 1 3/4 x 3/16	1.24	0.51
LH05	2 x 2 x 1/4	1.88	0.59	0.61	18" to 24" Incl. 28"	2 x 2 x 3/16 1 3/4 x 1 3/4 x 3/16	1.42 1.24	0.57 0.51
LH06	2 1/2 x 2 x 1/4	2.12	0.79	0.78	18" to 28" Incl. 32"	2 1/2 x 2 x 3/16 2 x 2 x 3/16	1.62 1.42	0.51 0.57
LH07	2 1/2 x 2 1/2 x 1/4	2.38	0.72	0.77	18" to 28" Incl. 32" to 36" Incl.	2 1/2 x 2 1/2 x 3/16 2 1/2 x 2 x 3/16	1.80 1.62	0.69 0.51
LH08	3 x 2 1/2 x 1/4*	2.62	0.91	0.95	18" to 24" Incl. 28" to 32" Incl. 36" to 40" Incl.	2 1/2 x 2 1/2 x 1/4 2 1/2 x 2 1/2 x 3/16 2 1/2 x 2 x 3/16	2.38 1.80 1.62	0.72 0.69 0.51
LH09	3 x 2 x 5/16	2.94	1.02	0.95	18" to 32" Incl. 36" to 40" Incl. 44"	2 1/2 x 2 1/2 x 1/4 2 1/2 x 2 x 1/4 2 1/2 x 2 1/2 x 3/16	2.38 2.12 1.80	0.72 0.54 0.69
LH10	3 x 2 1/2 x 5/16	3.24	0.93	0.94	20" to 28" Incl. 32" to 36" Incl. 40" to 48" Incl.	3 x 2 1/2 x 1/4 2 1/2 x 2 1/2 x 1/4 2 1/2 x 2 x 1/4	2.62 2.38 2.12	0.66 0.72 0.54
LH11	3 x 3 x 5/16	3.56	0.87	0.92	24" to 28" Incl. 32" to 36" Incl. 40" to 48" Incl.	3 x 2 x 5/16 3 x 2 1/2 x 1/4 2 1/2 x 2 1/2 x 1/4	2.94 2.62 2.38	0.52 0.66 0.72
LH12	3 1/2 x 3 x 3/8	4.60	10.8	1.09	28" to 32" Incl. 36" to 40" Incl. 44" to 48" Incl.	3 x 2 1/2 x 5/16 3 x 2 x 5/16 3 x 2 1/2 x 1/4	3.24 2.94 2.62	0.68 0.52 0.66
LH13	3 1/2 x 3 x 3/8	4.60	1.08	1.09	28" to 40" Incl. 44" to 48" Incl.	3 x 3 x 5/16 3 x 2 1/2 x 5/16	3.56 3.24	0.87 0.68
LH14	4 x 3 x 3/8	4.96	1.28	1.26	32" to 40" Incl. 44" to 48" Incl.	3 1/2 x 3 x 5/16 3 x 3 x 5/16	3.86 3.56	0.81 0.87
LH15	4 x 4 x 3/8	5.72	1.14	1.23	32" to 48" Incl.	3 1/2 x 3 1/2 x 5/16	4.18	0.99
LH16	4 x 4 x 7/16	6.62	1.16	1.23	40" to 48" Incl.	3 1/2 x 3 1/2 x 3/8	4.96	1.01
LH17	4 x 4 x 1/2	7.50	1.18	1.22	44" to 48" Incl.	4 x 4 x 3/8	5.72	1.14



*Properties shown are for effective section.

Material used in fabrication of LH series longspan joists is tested for minimum yield strength of 50,000 psi.