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NEW MILLENNIUM
BUILDING SYSTEMS

Pages identified with the New Millennium Building Systems Logo as shown above, have been produced by NMBS to assist specifiers and consumers in the application of New Millennium Building Systems' Joist and Joist Girder products.

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LIABILITY STATEMENT

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OUR FACILITIES

New Millennium Building Systems (NMBS) is a wholly-owned subsidiary of Steel Dynamics, Inc., manufacturing a complete range of joist and deck products. NMBS is a Company Member of both the Steel Joist Institute and the Steel Deck Institute.

Joist products include K, LH and DLH Series joists and joist girders, designed and manufactured in accordance with the specifications of the Steel Joist Institute. NMBS can also provide CJ Series joists (Composite Joist), designed and manufactured in accordance with the specifications of the Steel Joist Institute.

To locate the NMBS service representative in your immediate area, please call or visit www.newmill.com.

Locations:

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(260) 868-6000

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(540) 389-0211

Fallon, Nevada
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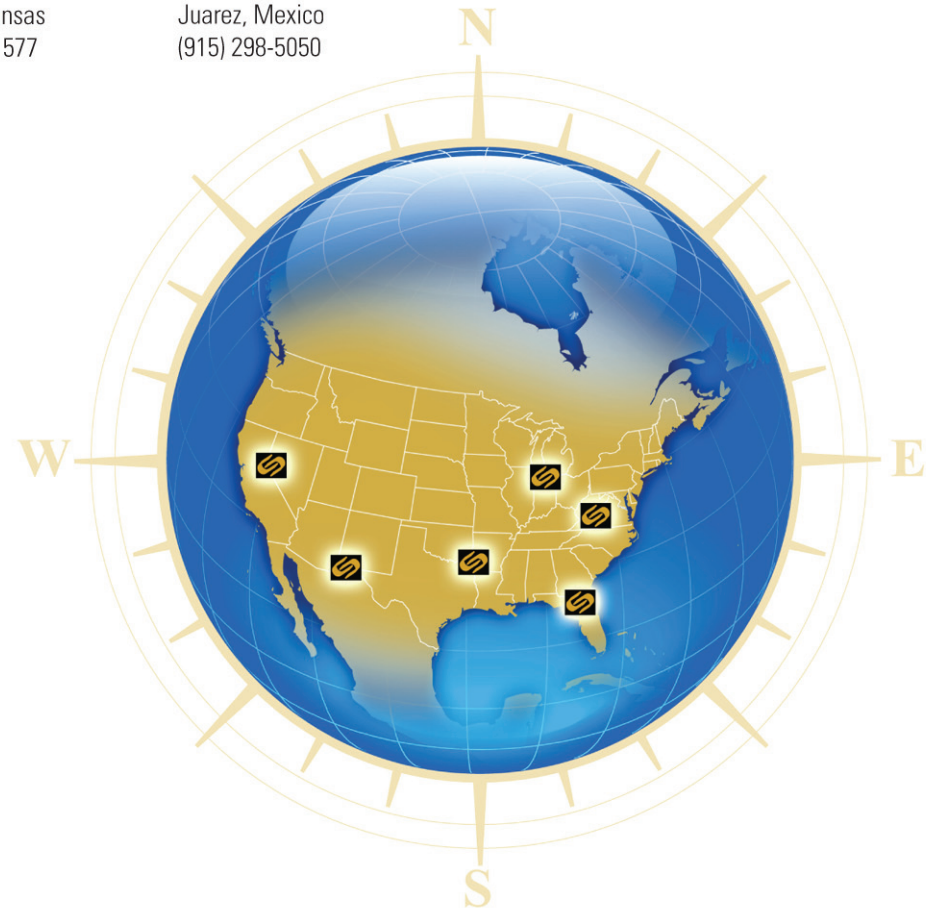


QUALITY ASSURANCE

JOIST CERTIFICATIONS

- Steel Joist Institute Member Company fully certified to manufacture K, LH, DLH Series, and Joist Girder Series.
- Welders are certified in accordance with AWS D1.1 and D1.3.
- Additionally, Indiana and Ohio facilities are certified in accordance with the requirements of the current IBC/Michigan Building Code, Chapter 17, Section 1705, Paragraph 2.2
- Additionally, Florida facility is certified in accordance with the requirements of the current Miami-Dade County, Florida Building Code, Article IV, Chapter 8 and the current Houston, Texas Building Code, Section 1704.2.2.

COMBINED SJI BRIDGING TABLES

TABLE 2.6-2
K, LH & DLH - SERIES JOISTS
MAXIMUM JOIST SPACING FOR DIAGONAL BRIDGING

	BRIDGING ANGLE SIZE - (Equal Leg Angles)				
Joist Depth	1 x 7/64 r = .20"	1 1/4 x 7/64 r = .25"	1 1/2 x 7/64 r = .30"	1 3/4 x 7/64 r = .35"	2 x 1/8 r = .40"
12	6' - 6"	8' - 3"	9' - 11"	11' - 7"	
14	6' - 6"	8' - 3"	9' - 11"	11' - 7"	
16	6' - 6"	8' - 2"	9' - 10"	11' - 6"	
18	6' - 6"	8' - 2"	9' - 10"	11' - 6"	
20	6' - 5"	8' - 2"	9' - 10"	11' - 6"	
22	6' - 4"	8' - 1"	9' - 10"	11' - 6"	
24	6' - 4"	8' - 1"	9' - 9"	11' - 5"	
26	6' - 3"	8' - 0"	9' - 9"	11' - 5"	
28	6' - 2"	8' - 0"	9' - 8"	11' - 5"	
30	6' - 2"	7' - 11"	9' - 8"	11' - 4"	
32	6' - 1"	7' - 10"	9' - 7"	11' - 4"	13' - 0"
36		7' - 9"	9' - 6"	11' - 3"	12' - 11"
40		7' - 7"	9' - 5"	11' - 2"	12' - 10"
44		7' - 5"	9' - 3"	11' - 0"	12' - 9"
48		7' - 3"	9' - 2"	10' - 11"	12' - 8"
52			9' - 0"	10' - 9"	12' - 7"
56			8' - 10"	10' - 8"	12' - 5"
60			8' - 7"	10' - 6"	12' - 4"
64			8' - 5"	10' - 4"	12' - 2"
68			8' - 2"	10' - 2"	12' - 0"
72			8' - 0"	10' - 0"	11' - 10"

MINIMUM A307 BOLT REQUIRED FOR CONNECTION

SERIES	SECTION NUMBER*	BOLT DIAMETER
K	ALL	3/8 "
LH / DLH	2 - 12	3/8 "
LH / DLH	13 - 17	1/2 "
DLH	18 & 19	5/8 "

*Refer to last digit(s) of Joist Designation.

BRIDGING SELECTION TABLE FOR KCS JOISTS

Joist Designation	Bridging Table Section Number	Joist Designation	Bridging Table Section Number
10KCS1	1	20KCS5	10
10KCS2	1	22KCS2	6
10KCS3	1	22KCS3	9
12KCS1	3	22KCS4	11
12KCS2	5	22KCS5	11
12KCS3	5	24KCS2	6
14KCS1	4	24KCS3	9
14KCS2	6	24KCS4	12
14KCS3	6	24KCS5	12
16KCS2	6	26KCS2	6
16KCS3	9	26KCS3	9
16KCS4	9	26KCS4	12
16KCS5	9	26KCS5	12
18KCS2	6	28KCS2	6
18KCS3	9	28KCS3	9
18KCS4	10	28KCS4	12
18KCS5	10	28KCS5	12
20KCS2	6	30KCS3	9
20KCS3	9	30KCS4	12
20KCS4	10	30KCS5	12

OSHA TABLES A and B
ERECTION BRIDGING

Joist	Span	Joist	Span
12K1	23' - 0"	30K9	45' - 0"
14K1	27' - 0"	30K10	50' - 0"
16K2	29' - 0"	30K11	52' - 0"
16K3	30' - 0"	30K12	54' - 0"
16K4	32' - 0"	18KCS2	35' - 0"
16K5	32' - 0"	20KCS2	36' - 0"
18K3	31' - 0"	20KCS3	39' - 0"
18K4	32' - 0"	22KCS2	36' - 0"
18K5	33 - 0"	22KCS3	40' - 0"
18K6	35' - 0"	24KCS2	39' - 0"
20K3	32' - 0"	24KCS3	44' - 0"
20K4	34' - 0"	26KCS2	39' - 0"
20K5	34' - 0"	26KCS3	44' - 0"
20K6	36' - 0"	28KCS2	40' - 0"
20K7	39' - 0"	28KCS3	45' - 0"
20K9	39' - 0"	28KCS4	53' - 0"
22K4	34' - 0"	28KCS5	53' - 0"
22K5	35' - 0"	30KCS3	45' - 0"
22K6	36' - 0"	30KCS4	54' - 0"
22K7	40' - 0"	30KCS5	54' - 0"
22K9	40' - 0"	18LH02	33' - 0"
24K4	36' - 0"	20LH02	33' - 0"
24K5	38' - 0"	20LH03	38' - 0"
24K6	39' - 0"	24LH03	35' - 0"
24K7	43' - 0"	24LH04	39' - 0"
24K8	43' - 0"	24LH05	40' - 0"
24K9	44' - 0"	24LH06	45' - 0"
26K5	38' - 0"	28LH05	42' - 0"
26K6	39' - 0"	28LH06	46' - 0"
26K7	43' - 0"	28LH07	54' - 0"
26K8	44' - 0"	28LH08	54' - 0"
26K9	44' - 0"	32LH06	47' - 0"
26K10	49' - 0"	32LH07	47' - 0"
28K6	40' - 0"	32LH08	55' - 0"
28K7	43' - 0"	36LH07	47' - 0"
28K8	44' - 0"	36LH08	47' - 0"
28K9	45' - 0"	36LH09	57' - 0"
28K10	49' - 0"	40LH08	47' - 0"
28K12	53' - 0"	40LH09	52' - 0"
30K7	44' - 0"	44LH09	52' - 0"
30K8	45' - 0"		

Joists not listed above do not require OSHA erection bridging through spans per SJI Specifications 5.2 and 104.2 or 60'-0".

COMBINED SJI BRIDGING TABLES

TABLE 2.6-1a
K - SERIES JOISTS
MAXIMUM JOIST SPACING FOR HORIZONTAL BRIDGING

Section Number*	BRIDGING MATERIAL SIZE**						
	Round Rod	Equal Leg Angles					
	1/2" round r = .13"	1 x 7/64 r = .20"	1-1/4 x 7/64 r = .25"	1-1/2 x 7/64 r = .30"	1-3/4 x 7/64 r = .35"	2 x 1/8 r = .40"	2-1/2 x 5/32 r = .50"
1 thru 9	3' - 3"	5' - 0"	6' - 3"	7' - 6"	8' - 7"	10' - 0"	12' - 6"
10	3' - 0"	4' - 8"	6' - 3"	7' - 6"	8' - 7"	10' - 0"	12' - 6"
11 and 12	2' - 7"	4' - 0"	5' - 8"	7' - 6"	8' - 7"	10' - 0"	12' - 6"

*Refer to last digit(s) of joist designation.

** Connection to Joist must resist 700 pounds.

TABLE 2.6-1b
LH - SERIES JOISTS
MAXIMUM JOIST SPACING FOR HORIZONTAL BRIDGING
SPANS OVER 60 ft. REQUIRE BOLTED DIAGONAL BRIDGING

Section Number*	BRIDGING ANGLE SIZE** - (Equal Leg Angles)					
	1 x 7/64 r = .20"	1 1/4 x 7/64 r = .25"	1 1/2 x 7/64 r = .30"	1 3/4 x 7/64 r = .35"	2 x 1/8 r = .40"	2 1/2 x 5/32 r = .50"
02, 03, 04	4' - 7"	6' - 3"	7' - 6"	8' - 9"	10' - 0"	12' - 4"
05 - 06	4' - 1"	5' - 9"	7' - 6"	8' - 9"	10' - 0"	12' - 4"
07 - 08	3' - 9"	5' - 1"	6' - 8"	8' - 6"	10' - 0"	12' - 4"
09 - 10		4' - 6"	6' - 0"	7' - 8"	10' - 0"	12' - 4"
11 - 12		4' - 1"	5' - 5"	6' - 10"	8' - 11"	12' - 4"
13 - 14		3' - 9"	4' - 11"	6' - 3"	8' - 2"	12' - 4"
15 - 16			4' - 3"	5' - 5"	7' - 1"	11' - 0"
17			4' - 0"	5' - 1"	6' - 8"	10' - 5"

* Refer to last two digits of joist designation.

** Connection to joist must resist force listed in Table 104.5.1.

TABLE 5.4-1
NUMBER OF ROWS OF BRIDGING**
Refer to K-Series Load Table and Specification Section 6 for required bolted diagonal bridging.
Distances are Joist Span lengths - See "Definition of Span" on page 23.

Section Number*	One Row	Two Rows	Three Rows	Four Rows	Five Rows
1	Up thru 16'	Over 16' thru 24'	Over 24' thru 28'		
2	Up thru 17'	Over 17' thru 25'	Over 25' thru 32'		
3	Up thru 18'	Over 18' thru 28'	Over 28' thru 38'	Over 38' thru 40'	
4	Up thru 19'	Over 19' thru 28'	Over 28' thru 38'	Over 38' thru 48'	
5	Up thru 19'	Over 19' thru 29'	Over 29' thru 39'	Over 39' thru 50'	Over 50' thru 52'
6	Up thru 19'	Over 19' thru 29'	Over 29' thru 39'	Over 39' thru 51'	Over 51' thru 56'
7	Up thru 20'	Over 20' thru 33'	Over 33' thru 45'	Over 45' thru 58'	Over 58' thru 60'
8	Up thru 20'	Over 20' thru 33'	Over 33' thru 45'	Over 45' thru 58'	Over 58' thru 60'
9	Up thru 20'	Over 20' thru 33'	Over 33' thru 46'	Over 46' thru 59'	Over 59' thru 60'
10	Up thru 20'	Over 20' thru 37'	Over 37' thru 51'	Over 51' thru 60'	
11	Up thru 20'	Over 20' thru 38'	Over 38' thru 53'	Over 53' thru 60'	
12	Up thru 20'	Over 20' thru 39'	Over 39' thru 53'	Over 53' thru 60'	

*Refer to last digit(s) of joist designation.

**See Section 5.11 for additional bridging required for uplift design.

TABLE 104.5-1

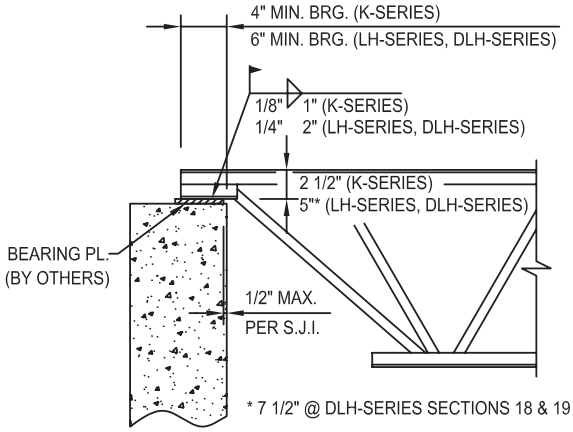
LH, DLH Section Number*	Max. Spacing of Bridging Lines	Nominal Horizontal Bracing Force**
02, 03, 04	11' - 0"	400
05, 06	12' - 0"	500
07, 08	13' - 0"	650
09, 10	14' - 0"	800
11, 12	16' - 0"	1000
13, 14	16' - 0"	1200
15, 16	21' - 0"	1600
17	21' - 0"	1800
18, 19	26' - 0"	2000

Number of lines of bridging is based on joist clear span dimensions.

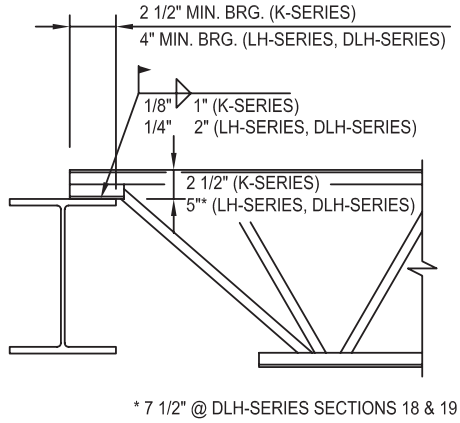
*Refer to last two digits of joist designation.

** Nominal bracing force is unfactored (lbs.).

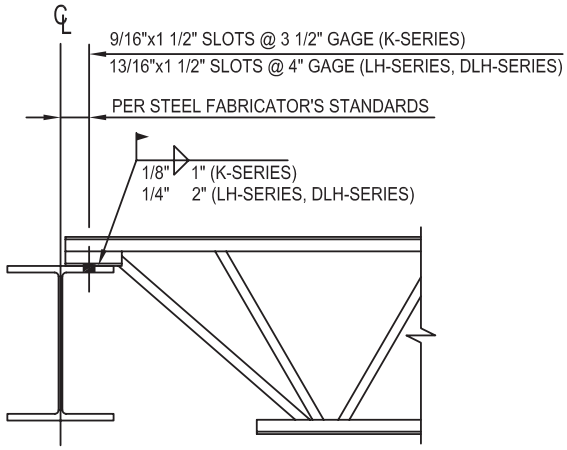
STANDARD JOIST DETAILS



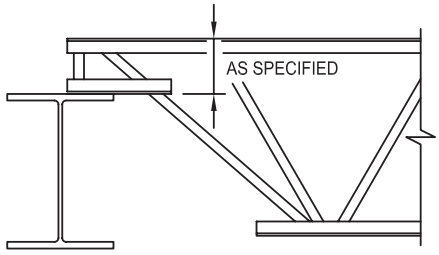
MASONRY BEARING



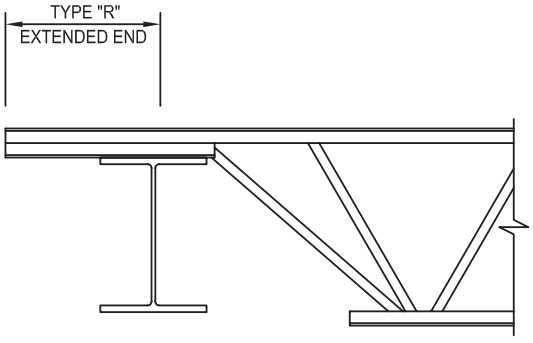
STEEL BEARING



BOLTED CONNECTION

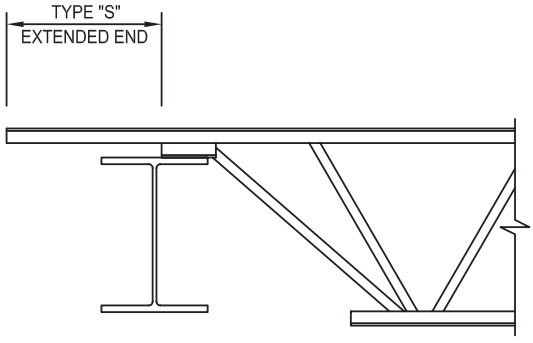


DEEP BEARING SEATS



EXTENDED ENDS WILL BE DESIGNED FOR THE JOIST UNIFORM LOAD IF NOT OTHERWISE SPECIFIED.

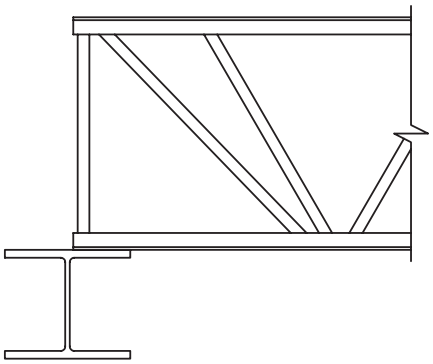
TYPE “R” EXTENDED END



EXTENDED ENDS WILL BE DESIGNED FOR THE JOIST UNIFORM LOAD IF NOT OTHERWISE SPECIFIED.

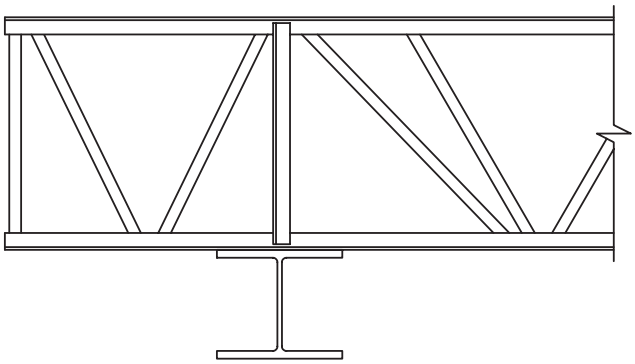
TYPE “S” EXTENDED END

STANDARD JOIST DETAILS



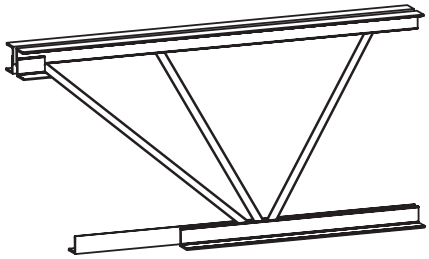
NOTE: A ROW OF DIAGONAL BRIDGING IS REQUIRED NEAR THE SUPPORT, SEE SJI SPECIFICATION SECTIONS 5.4(d) AND 104.5(f). ERECT JOISTS WITH CAMBER UPWARD.

SQUARE END

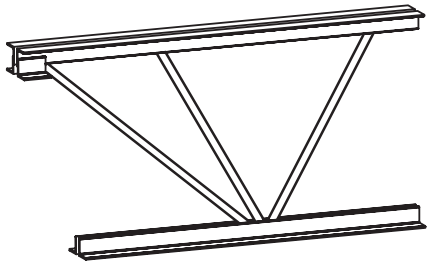


NOTE: A ROW OF DIAGONAL BRIDGING IS REQUIRED NEAR THE SUPPORT, SEE SJI SPECIFICATION SECTIONS 5.4(d) AND 104.5(f). ERECT JOISTS WITH CAMBER UPWARD.

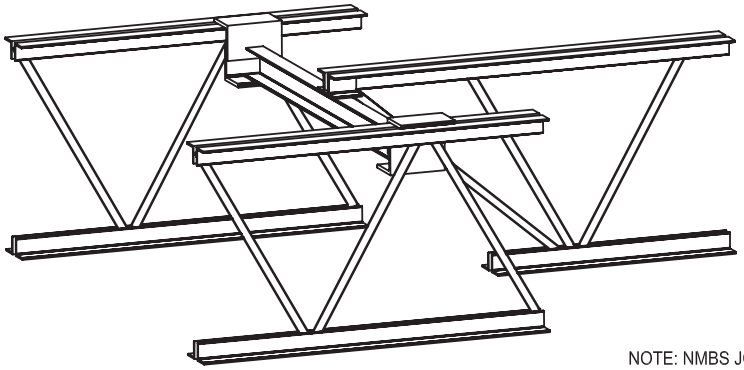
SQUARE END CANTILEVER



CEILING EXTENSION



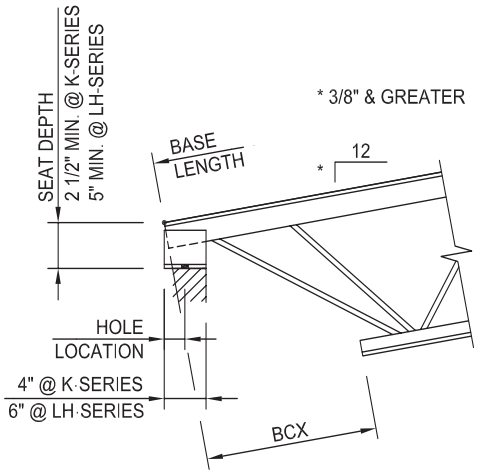
BOTTOM CHORD EXTENSION



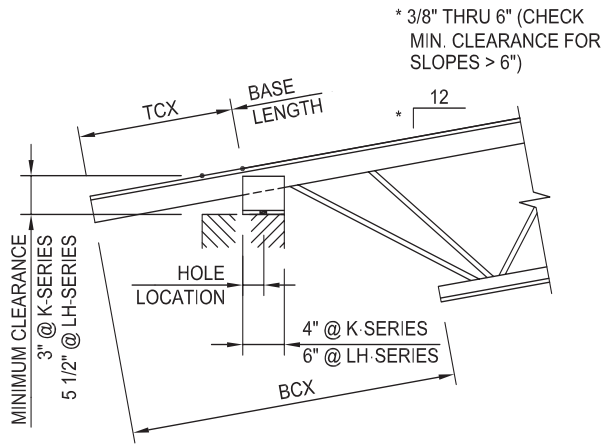
JOIST HEADER

NOTE: NMBS JOIST HEADER FOR SUPPORT OF K, KCS SERIES JOISTS ONLY. HEADERS FOR SUPPORT OF LH, DLH SERIES JOISTS BY OTHERS.

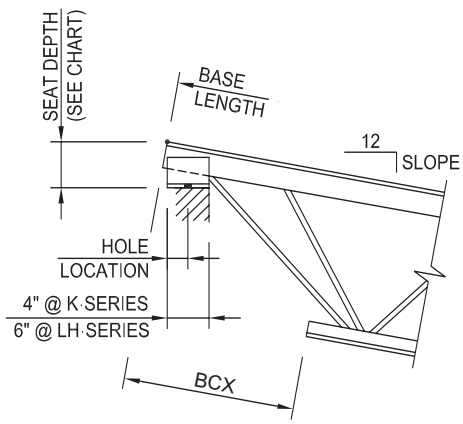
SLOPED SEAT REQUIREMENTS



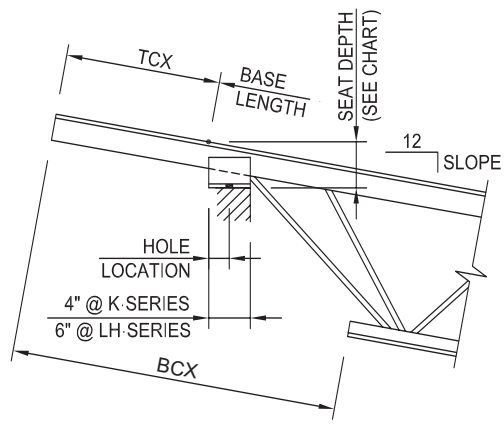
LOW END WITHOUT TCX



LOW END WITH TCX



HIGH END WITHOUT TCX



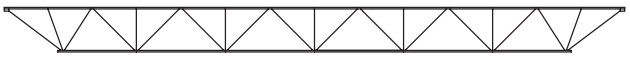
HIGH END WITH TCX

Notes:
1. Sloped seats are not required for slopes less than 3/8":12".
2. Contact NMBS for high end seat depth requirements when slope exceeds 6":12".
3. Minimum seat depths indicated were determined using TCX depths of 2 1/2" at K-Series and 5" at LH-Series. When TCX depths need to increase due to design requirements, the minimum seat depths will need to increase accordingly.
4. See chart below for minimum seat depth requirements for high end bearing conditions.

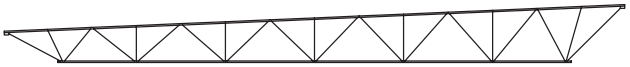
SLOPE: 12"		3/8"	1/2"	1"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	4 1/2"	5"	5 1/2"	6"
MIN. SEAT DEPTH	K-SERIES	3"	3 1/4"	3 1/4"	3 1/2"	3 3/4"	4"	4 1/4"	4 1/4"	4 1/2"	4 3/4"	5"	5 1/4"	5 1/2"
	LH-SERIES	5 3/4"	5 3/4"	6"	6 1/4"	6 1/2"	6 3/4"	7 1/4"	7 1/2"	7 3/4"	8 1/4"	8 1/2"	8 3/4"	9 1/4"

JOIST PROFILES

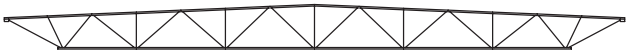
STANDARD PROFILES



PARALLEL CHORD



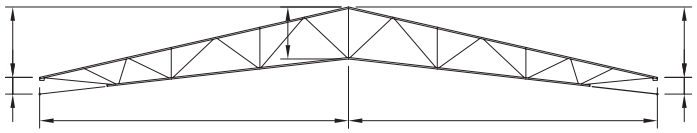
SINGLE PITCHED TOP CHORD



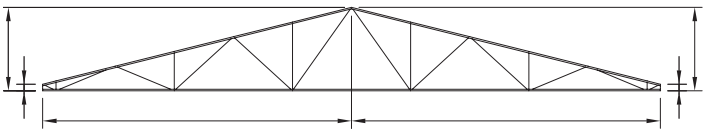
DOUBLE PITCHED TOP CHORD

All standard profile joists are available with either under-slung or square ends. LH-Series and DLH-Series joists are available with single pitched or double pitched top chords. The depth indicated in joist designation is determined by the depth of single pitched joists at the center of span and at ridge center line of double pitched joists. When top chord slope exceeds 1/8":12", total and live top chord uniform loads must be provided. All standard profile joists will be furnished with standard SJI camber as indicated in SJI Table 103.6-1, unless specified otherwise in contract documents.

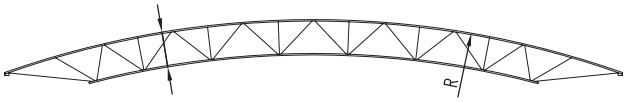
SPECIAL PROFILES



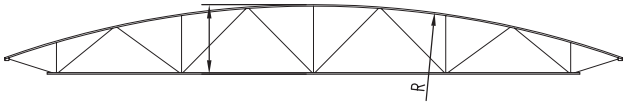
SCISSOR



GABLE



BARREL



BOWSTRING

Special profiles shown are also available. Special profile joists are available with either under-slung or square ends. Contract documents must include all dimensions as indicated along with all loading requirements. All special profile joists will be furnished with no camber unless specified otherwise in contract documents. Scissor and barrel profile joists will induce horizontal forces due to deflection, and need to be considered in building design by a design professional.

DUCT OPNG., FIELD REIN., SJI CAMBER

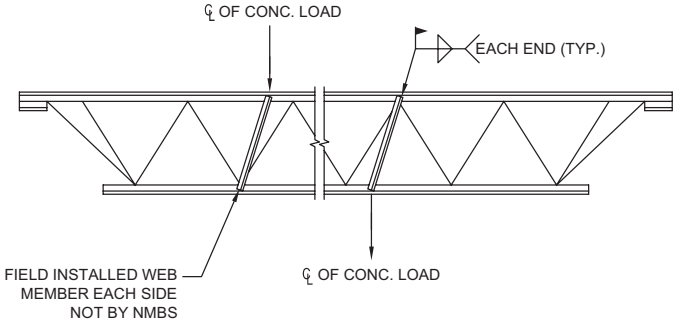
APPROXIMATE DUCT OPENING SIZES

K-SERIES JOIST DEPTH (IN.)	DUCT SIZE (IN.)		
	ROUND	SQUARE	RECTANGULAR
8	5	4 x 4	2 x 9
10	6	4 x 4	4 x 7
12	7	5 x 5	4 x 8
14	8	6 x 6	4 x 10
16	9	7 x 7	7 x 8
18	10	8 x 8	8 x 10
20	11	9 x 9	7 x 12
22	12	9 x 9	9 x 10
24	14	11 x 11	9 x 16
26	15	12 x 12	12 x 13
28	16	13 x 13	11 x 16
30	17	14 x 14	12 x 16

LH, DLH-SERIES JOIST DEPTH (IN.)	DUCT SIZE (IN.)		
	ROUND	SQUARE	RECTANGULAR
18	10	8 x 8	6 x 11
20	10	8 x 8	7 x 11
24	13	10 x 10	10 x 11
28	15	12 x 12	11 x 15
32	18	14 x 14	12 x 18
36	21	16 x 16	14 x 21
40	23	18 x 18	15 x 24
44	26	21 x 21	17 x 27
48	29	23 x 23	19 x 30
52	32	25 x 25	22 x 31
56	35	28 x 28	24 x 34
60	38	30 x 30	25 x 38
64	40	32 x 32	26 x 42
68	43	35 x 35	28 x 45
72	46	37 x 37	32 x 45

The duct sizes shown are approximate sizes that are permissible to pass through joists. The structural drawings must indicate all ducts that are required to pass through joists.

FIELD REINFORCEMENT AT CONCENTRATED LOADS

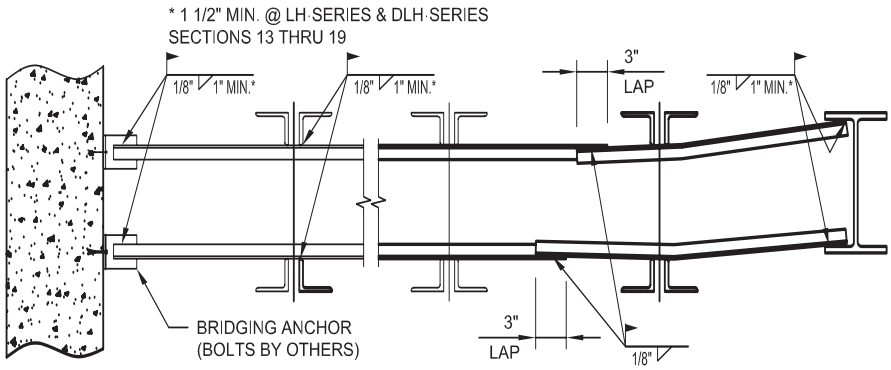


Top and bottom chords of joists, including KCS-Series, are not designed for localized bending from concentrated loads. Concentrated loads must be applied at joist panel points or field installed web members must be utilized at no cost to NMBS. NMBS can provide specially designed joists with the capability of supporting concentrated loads without the added members if this requirement and the exact locations and magnitudes of the concentrated loads are clearly shown in the contract documents. Also, NMBS can consider the worst case for both shear and bending moment for moving concentrated loads with no specific locations. When moving concentrated loads are specified, the contract documents should indicate whether the loads are to be applied at the top or bottom chord, and at any joist panel point, or at any point along the joist with the local bending effects considered.

TABLE 103.6-1

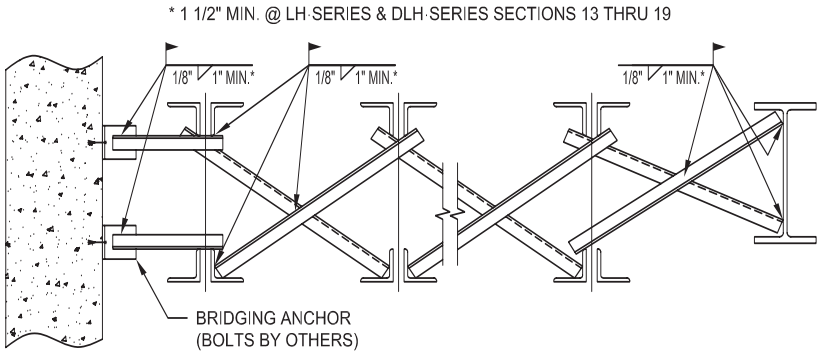
TOP CHORD LENGTH	APPROXIMATE CAMBER
20'-0"	1/4"
30'-0"	3/8"
40'-0"	5/8"
50'-0"	1"
60'-0"	1 1/2"
70'-0"	2"
80'-0"	2 3/4"
90'-0"	3 1/2"
100'-0"	4 1/4"
110'-0"	5"
120'-0"	6"
130'-0"	7"
140'-0"	8"
144'-0"	8 1/2"

STANDARD BRIDGING DETAILS



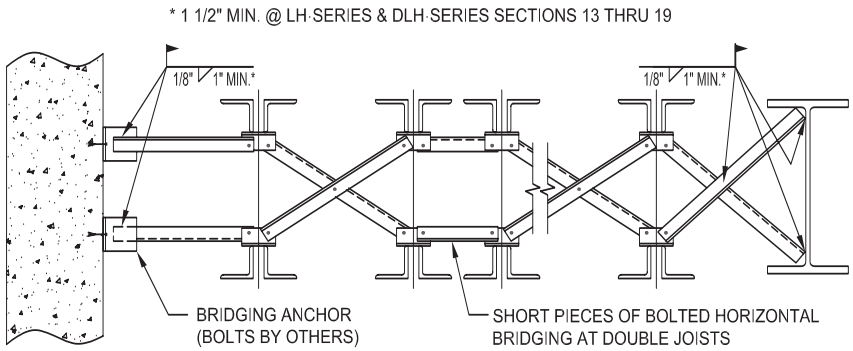
FIELD CUT HORIZONTAL BRIDGING AS REQUIRED
FROM 20'-0" LENGTHS. USE ALL DROP.

WELDED HORIZONTAL BRIDGING



NMBS RECOMMENDS THE USE OF HORIZONTAL BRIDGING IN THE SPACE
ADJACENT TO WALLS TO ALLOW FOR DEFLECTION OF THE JOIST.

WELDED DIAGONAL BRIDGING



NMBS RECOMMENDS THE USE OF HORIZONTAL BRIDGING IN THE SPACE
ADJACENT TO WALLS TO ALLOW FOR DEFLECTION OF THE JOIST.

BOLTED DIAGONAL BRIDGING

OSHA HIGHLIGHTS

NMBS joist products are fabricated to meet the erection requirements of the Occupational Safety and Health Administration (OSHA). Field compliance with OSHA is necessary. This section summarizes the OSHA Safety Standards for Steel Erection, 29 CFR, Open Web Steel Joists 1926.757 requirements governing joist fabrication. Refer to page 158 of this publication for the complete OSHA regulation for erecting steel joists.

FIELD-BOLTED JOISTS

Field-bolted bearing connections to steel framing are required where constructability allows, for joists in bays of 40'-0" or more, except where joists are preassembled in panels. Bay is defined as the length from center of steel or from face of wall. Slotted holes are provided in joist seats for this initial connection typically made with ASTM-A307 bolts. The final connection should be welded or as designated by the specifying professional.

COLUMN JOISTS

Joists at columns that are not framed in at least two directions with structural steel, are required to be bolted at the column to provide lateral stability to the column during erection. Joist bottom chords are to be extended at columns onto vertical stabilizer plates to prevent overturning during erection. Hoisting cables are to remain until both ends of joists are field-bolted and bottom chords are restrained by column stabilizer plates.

Where joists do not occur at columns and columns are not framed in at least two directions by structural steel, the joists on both sides of column, are to be field-bolted at both ends where constructability allows. Hoisting cables are to remain until joists are field-bolted and an alternate means of stabilizing joists is installed.

OSHA has adopted an enforcement policy effective indefinitely, for column joists or near column joists spanning 60'-0" or less, as referenced in 1926.757 (a) (3). The policy is as follows: “for all joists at or near columns that span 60 feet or less, employers will be considered to be in compliance with 1926.757 (a) (3) if they erect these joists either by: (1) installing bridging or otherwise stabilizing the joist prior to releasing the hoisting cable, or (2) releasing the hoisting cable without having a worker on the joists”.

NMBS will place a DANGER tag as shown below, on these column joists and near column joists to inform erectors of the OSHA requirements.

Column joists and near column joists spanning more than 60'-0" shall be set in tandem with all bridging installed and field-bolted at both ends where constructability allows, prior to releasing hoisting cables.

OSHA HIGHLIGHTS

ERECTION STABILITY BRIDGING

Where the span of the joist is equal to or greater than the span shown in Tables A and B, at right, the following shall apply: a row of bolted diagonal erection stability bridging shall be installed near the mid-span of the joist and anchored prior to releasing hoisting cables. Joists not listed in Tables A and B, do not require erection stability bridging. The spans indicated in Tables A and B, are defined as follows: from center of steel support or from 4" onto supporting wall for K-Series joists and clear span plus 8" for LH and DLH-Series joists.

Where the span of the joist is over 60'-0" through 100'-0" the following shall apply: all rows of bridging shall be bolted diagonal bridging, two rows of bolted diagonal erection stability bridging shall be installed near the third points of the joist and anchored prior to releasing hoisting cables.

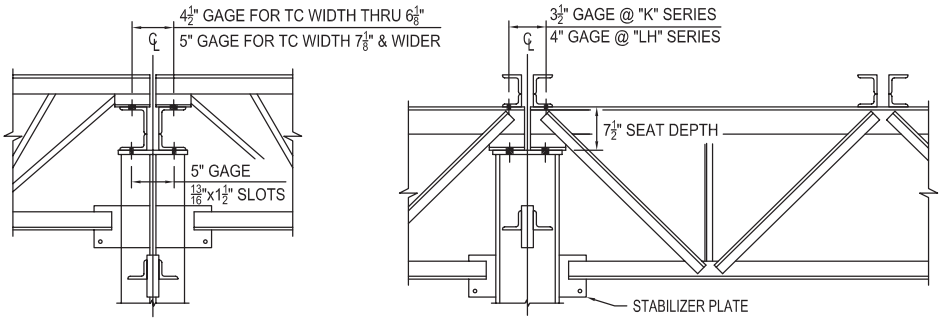
Where the span of the joist is over 100'-0" through 144'-0" the following shall apply: all rows of bridging shall be bolted diagonal erection stability bridging installed and anchored prior to releasing hoisting cables.

OSHA TABLES A and B
ERECTION STABILITY BRIDGING

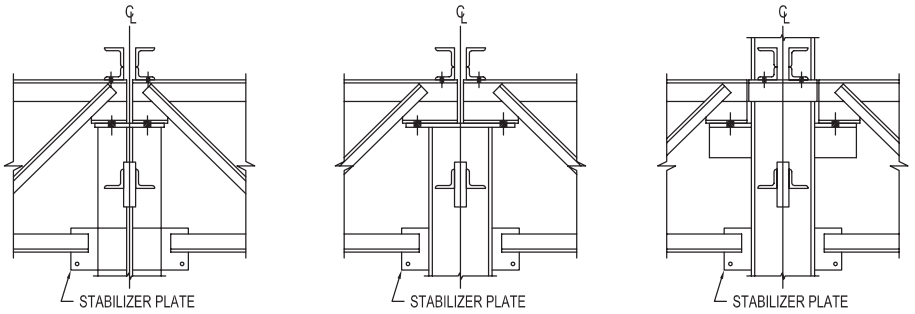
JOIST	SPAN	JOIST	SPAN
12K1	23 - 0	30K9	45 - 0
14K1	27 - 0	30K10	50 - 0
16K2	29 - 0	30K11	52 - 0
16K3	30 - 0	30K12	54 - 0
16K4	32 - 0	18KCS2	35 - 0
16K5	32 - 0	20KCS2	36 - 0
18K3	31 - 0	20KCS3	39 - 0
18K4	32 - 0	22KCS2	36 - 0
18K5	33 - 0	22KCS3	40 - 0
18K6	35 - 0	24KCS2	39 - 0
20K3	32 - 0	24KCS3	44 - 0
20K4	34 - 0	26KCS2	39 - 0
20K5	34 - 0	26KCS3	44 - 0
20K6	36 - 0	28KCS2	40 - 0
20K7	39 - 0	28KCS3	45 - 0
20K9	39 - 0	28KCS4	53 - 0
22K4	34 - 0	28KCS5	53 - 0
22K5	35 - 0	30KCS3	45 - 0
22K6	36 - 0	30KCS4	54 - 0
22K7	40 - 0	30KCS5	54 - 0
22K9	40 - 0	18LH02	33 - 0
24K4	36 - 0	20LH02	33 - 0
24K5	38 - 0	20LH03	38 - 0
24K6	39 - 0	24LH03	35 - 0
24K7	43 - 0	24LH04	39 - 0
24K8	43 - 0	24LH05	40 - 0
24K9	44 - 0	24LH06	45 - 0
26K5	38 - 0	28LH05	42 - 0
26K6	39 - 0	28LH06	46 - 0
26K7	43 - 0	28LH07	54 - 0
26K8	44 - 0	28LH08	54 - 0
26K9	44 - 0	32LH06	47 - 0
26K10	49 - 0	32LH07	47 - 0
28K6	40 - 0	32LH08	55 - 0
28K7	43 - 0	36LH07	47 - 0
28K8	44 - 0	36LH08	47 - 0
28K9	45 - 0	36LH09	57 - 0
28K10	49 - 0	40LH08	47 - 0
28K12	53 - 0	40LH09	52 - 0
30K7	44 - 0	44LH09	52 - 0
30K8	45 - 0		

Joists not listed do not require OSHA erection bridging through spans per SJI Specifications 5.2 and 104.2 or 60'-0".

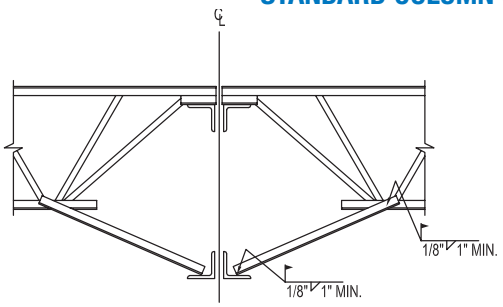
STANDARD JOIST GIRDER DETAILS AND NOTES



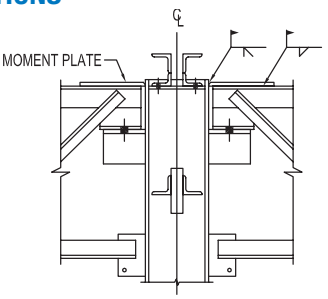
JOIST GIRDER STANDARDS



STANDARD COLUMN CONNECTIONS



BOTTOM CHORD BRACE



MOMENT CONNECTION

Joist girder dimensions shown are standard with NMBS. Under certain conditions changes are necessary and will be noted on the shop drawings.

The NMBS standard connection for joist girders to columns is 13/16" x 1 1/2" slots utilizing a 5" gage with 3/4" bolts (bolts are by others). In addition to the bolted connection, welds can also be specified if required to transmit horizontal forces. The final connection shall be made by welding or as designated by the specifying professional.

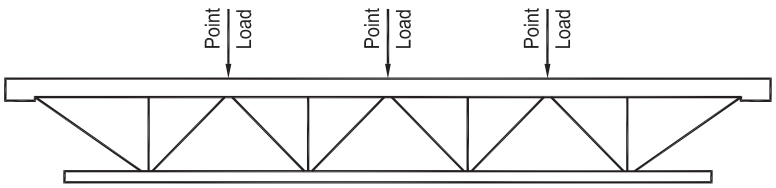
Stabilizer plates are required on the columns located at the bottom chord of the joist girder to brace the joist girder from overturning during the erection process. Welding the bottom chord to the stabilizer plate should not be done unless required to resist horizontal forces. This should only be done after the dead loads have been applied.

Joists are connected to the joist girders by welding except that joists 40' and longer shall be bolted to joist girders.

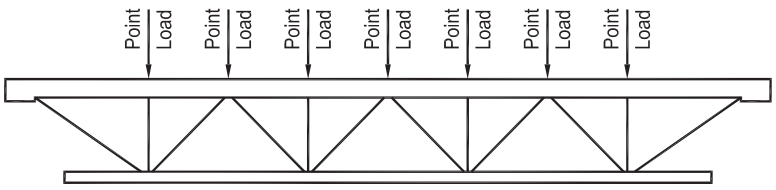
The joist girder bottom chord must be braced so that its slenderness ratio about the Y axis does not exceed 240. NMBS will supply bottom chord braces as required by the design.

When end moments occur on joist girders, a moment plate is required to transmit the forces to the column. The design and moment plate is not by NMBS.

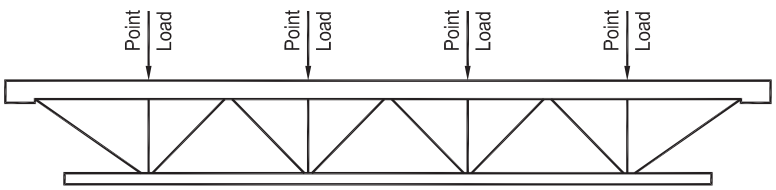
STANDARD JOIST GIRDER DETAILS AND NOTES



CONFIGURATION DESIGNATED AS "G"



CONFIGURATION DESIGNATED AS "BG"



CONFIGURATION DESIGNATED AS "VG"

Note: Web configuration may vary from that shown. Contact NMBS if exact layout must be known.

The tables below may be used to solve for the approximate top chord width and the number of bottom chord braces for Joist Girders. Use the formulas below to solve for the TCA and the BCA. After calculating the TCA and BCA, determine the approximate TC Width and the number of bottom chord braces by checking across in the same row under the appropriate column.

For **even** joist spaces on the joist girder:	For **odd** joist spaces on the joist girder:
TCA = .03xPxSxN^2/D	**TCA = .03xPxSx(N^2-1)/D**
BCA = .026xPxSxN^2/D	**BCA = .026xPxSx(N^2-1)/D**

Where:
P = panel point load (kips),
S = joist spacing (ft.)
N = number of joist spaces
D = joist girder depth (in.)

TCA	Approximate TC Width (in.)
< = 1.02	6.125
1.03 - 1.19	6.125
1.20 - 1.78	7.125
1.79 - 2.29	8.125
2.30 - 3.75	9.125
3.76 - 4.75	11.125
4.76 - 8.44	13.125
> 8.44	Contact NMBS

BCA	JOIST GIRDER SPAN (ft.)		
	No BC Braces	One BC Brace at midspan	Two BC Braces at third points
< = 1.02	0 to 25'-8"	> 25'-8" to 51'-4"	> 51'-4" to 77'
1.03 - 1.19	0 to 29'-8"	> 29'-8" to 59'-4"	> 59'-4" to 89'
1.20 - 1.78	0 to 33'-7"	> 33'-7" to 67'-2"	> 67'-2" to 100'-9"
1.79 - 2.29	0 to 37'-9"	> 37'-9" to 75'-5"	> 75'-5" to 113'-2"
2.30 - 3.75	0 to 42'-0"	> 42'-0" to 84'-1"	> 84'-1" to 126'-2"
3.76 - 4.75	0 to 50'-2"	> 50'-2" to 100'-4"	> 100'-4" to 150'-6"
4.76 - 8.44	0 to 58'-3"	> 58'-3" to 116'-6"	> 116'-6" to 174'-9"
> 8.44	Contact NMBS		

Example:
Assume that the joist girder size is a 48G8N9.5K x 40' in length.
TCA = .03x9.5x5x8^2/48 = 1.90, 1.90 falls in the 4th row and the ~ TC Width = 8.125" .
BCA = .026x9.5x5x8^2/48 = 1.65, 1.65 falls in the 3rd row and since the length is 40', the number of bottom chord braces required = one at the midspan.
Note: Additional braces may be required by design. For critical dimensions, the top chord width needs to be verified by NMBS.

LOAD ZONE JOISTS

AN EFFICIENT ALTERNATIVE TO THE KCS JOIST

When the approximate locations of concentrated loads are known, the designer has the opportunity to design a more efficient joist. These joists can be designed to support concentrated loads residing in specific areas defined as “load zones”. Having these zones being located by boundaries and knowing the corresponding concentrated load, a more efficient joist can now be designed.

1. Load zone joists can be designed in accordance with either K or LH Series Specifications.

2. Shear and moment envelopes are developed for all load cases within the zones and the joists are designed accordingly, including any stress reversal which may occur.

3. The designer may specify as many loads and corresponding “load zones” as needed. The fewer zones specified, the more efficient the joist will be.

4. Joist chords and web members will be adequately designed to support all load case combinations. If a concentrated load does not occur at a panel point, then a reinforcement member will need to be added in the field from a panel point to the point of concentrated load.

5. Joist chords will be checked so that bridging utilized for adjacent joists will be adequate for the “load zone” joists.

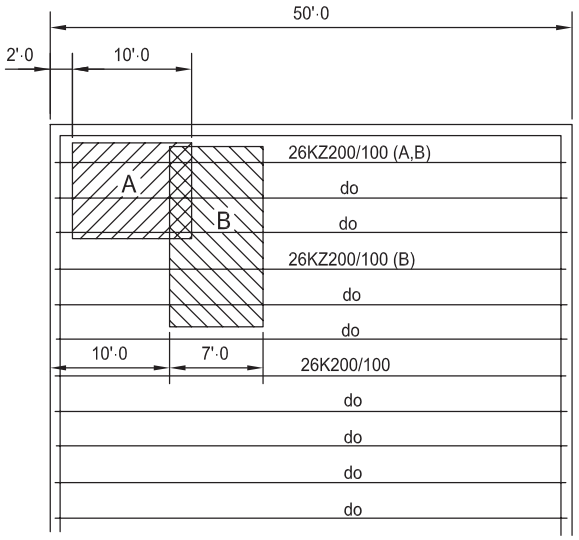
6. How to specify “load zone” joists using ASD: In the figure shown on the right is a typical framing plan. There are two load zones indicated with hatched lines. The Zone A boundary covers an area 2 feet from the left side to 12 feet from the left side over three joists. The Zone B boundary covers an area beginning 10 feet from the left side to 17 feet from the left side over 6 joists. Zone A will have a 1000 pound concentrated load which may occur anywhere within the zone. Zone B will have a 2000 pound concentrated load occurring anywhere within the zone. The joists not affected by the concentrated loads are designated as 26K200/100. The first three joists from the top of the plan are affected by Zones A and B and will be labeled as: 26KZ200/100 (A, B). When using LH Series Specifications, the joists would be labeled as 26LHZ200/100 (A, B). The next three joists are affected by only Zone B. They will be labeled as: 26KZ200/100 (B). In near proximity with the corresponding framing plan the load zone information should be listed as follows:

Zone A - 1000 lb. 2' to 12'
Zone B - 2000 lb. 10' to 17'

Note that the dimensions are from one end of the framing plan. Actual dimensions may be placed on the framing plan as shown below.

7. Compare the weight of the 26KZ200/100 (A, B) joist to a KCS joist selected to carry the same loads: Determining the shear and moment envelopes we find that (Mmax = 1077 in. kips and the Max. Shear = 7324 lbs.) the KCS selection would be a 26KCS4 (see KCS table on page 57). The KCS joist weighs 16.5 lbs. per foot. The load zone joist design shows that the 26KZ200/100 (A, B) weighs 12.4 lbs. per foot. Multiplying the weight per foot difference (16.5 minus 12.4 equals 4.1) times the length of the joist (50 feet) reveals that the load zone joist would weigh 204 lbs. less than the KCS joist.

Note: The procedure for using LRFD would be similar to the procedure shown above.



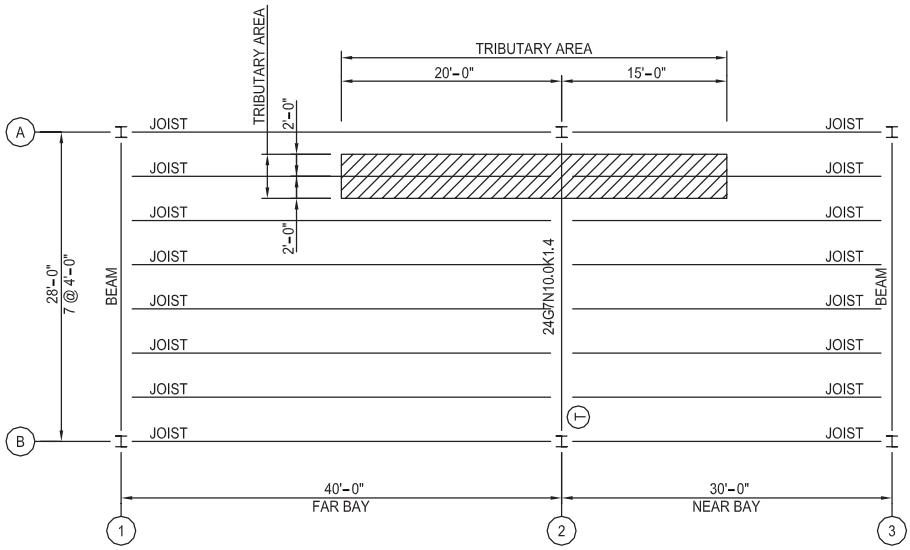
BILLS OF MATERIAL INSTRUCTIONS AND EXAMPLES

CALCULATING GIRDER UPLIFT

Girder uplift is calculated by determining the amount of roof area (tributary area) supported by each girder panel point. It is applied in the form of a Kip load at each joist bearing location. To calculate girder uplift, use the formula and example supplied below. Net uplift equals 10 psf.

((1/2 Near Bay + 1/2 Far Bay) x Uplift in PSF x Largest Joist Space) / 1000
Example: ((20' + 15') x 10 x 4')/1000 = 1.4 Kips

Girder uplift should be included at the end of the girder designation - 24G7N10.0K1.4



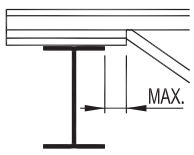
GIRDER SEAT TYPE

Standard girder seat type is “R”-Type (Full Depth) unless specified otherwise via special note.

OSHA HOLES

If OSHA holes are required for joists bearing on a girder, then specify which side requires holes. In the example shown below, a pair of holes will be provided at 3'-11 3/4" (A), from base length at the left end, and then at every 4'-0" (N) intermediate panel location on far side as denoted by placing a “F” in the OH column. Unless noted otherwise, top chord holes are provided in the standard configuration listed next to the diagram on the girder bill.

A	N		B	OH	TCL	TCR	JST. GA.	BOLT (X/16)	NOTE #
	NO.	LENGTH							
3 - 11 3/4	5	4 - 0	3 - 11 3/4	F	1 1/2	1 1/2	3 1/2	9	



MINIMUM BEARING

Achieving minimum bearing (as per SJI) on lists provided by the customer, is the responsibility of the customer. The maximum portion of the seat that may hang off of the inside edge of the support, and still allow the member to achieve minimum bearing, is as follows: 1½" for K Series joists, 2" for LH, DLH Series joists, and 2" for girders. These are maximum values allowed by SJI and require special design consideration for masonry bearing conditions. Please refer to SJI specifications provided in the appropriate sections of the NMBS catalog.

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SALEM, VA (540) 389-0378

DATE:_____

SHEET:_____ of _____

JOIST AND GIRDER SPECIAL NOTES

JOB NAME:	CUST. JOB #:	NMBS JOB#:
LOCATION:	DETAILER:	CHECKER:

NOTE #	NOTES

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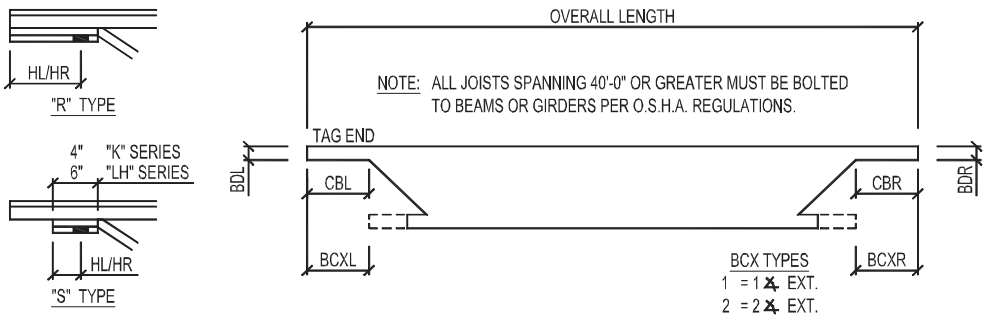
DATE: _____

JOIST BILL OF MATERIAL

PAINT: _____ SHEET: _____ of _____

JOB NAME:	CUST. JOB #:	NMBS JOB #:
LOCATION:	DETAILER:	CHECKER:

NET UPLIFT = _____ P.L.F.



STANDARD UNLESS NOTED OTHERWISE ON BILL

	"K" SERIES	"LH" SERIES
BDL, BDR	= 21/2"	5"
CBL, CBR	= 4"	6"
SLOTS	= 9/16" x 11/2"	13/16" x 11/2"
GAGE	= 31/2"	4"
BCXL, BCXR	= NONE	NONE

NOTE: IF 13/16" x 1 1/2" SLOTS ARE REQ'D. FOR "K" SERIES JOISTS, GAGE = 4".

QTY. (THIS SHT.)

K: _____
LH: _____
JS: _____
HDR: _____

JOIST MARK	QTY.	JOIST SIZE	OVERALL LENGTH	CBL		CBR		SEAT DEPTH		BCXL		BCXR		PUNCHED SEATS			NOTES OR NOTE #
				LENGTH	TYPE	LENGTH	TYPE	BDL	BDR	LENGTH	TYPE	LENGTH	TYPE	HL	HR	GA.	

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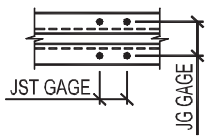
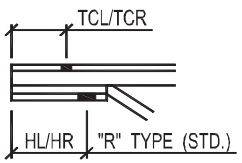
DATE: _____

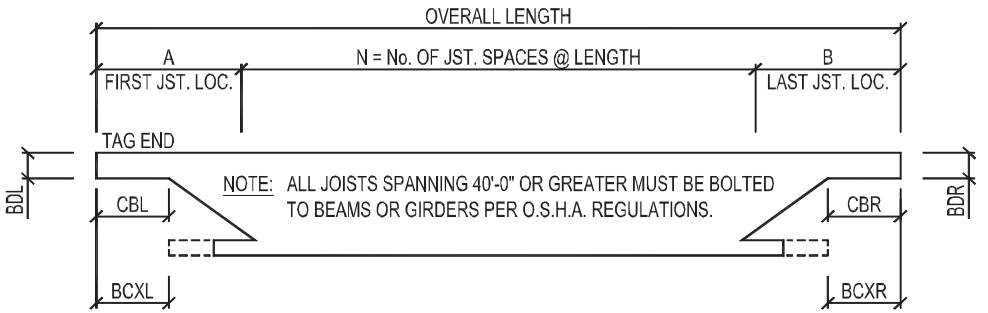
GIRDER BILL OF MATERIAL

PAINT: _____ SHEET: _____ of _____

JOB NAME:	CUST. JOB #:	NMBS JOB#:
LOCATION:	DETAILER:	CHECKER:







STANDARD UNLESS NOTED OTHERWISE ON BILL

BDL, BDR	= 71/2"
CBL, CBR	= 6"
SEAT SLOTS	= 13/16" x 1 1/2", 5" GAGE
T.C. HOLES	= 9/16" (K); 13/16" (LH, DLH)
JST GAGE	= 3 1/2" (K); 4" (LH, DLH)
JG GAGE	= 5"

O.S.H.A. HOLES (OH)
N, F, B = NEAR, FAR, BOTH

QTY. (THIS SHT.) _____

GIRDER MARK	QTY.	GIRDER SIZE	OVERALL LENGTH	CBL	CBR	SEAT DEPTH		BCXL	BCXR	PUNCHED SEATS		A	N		B	O H	TCL	TCR	JST. GA.	BOLT (X/16)	NOTE #
						BDL	BDR			HL	HR		NO.	LENGTH							

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DATE: _____

BRIDGING BILL OF MATERIAL

PAINT: _____ SHEET: _____ of _____

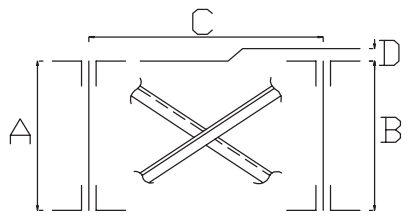
JOB NAME:	CUST. JOB #:	NMBS JOB #:
LOCATION:	DETAILER:	CHECKER:

BRIDGING TYPES:

H = WELDED HORIZONTAL (SUPPLIED IN 20'-0" PCS)
W = WELDED DIAGONAL
B = BOLTED HORIZONTAL
X = BOLTED DIAGONAL

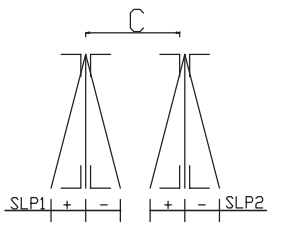
NOTE: JOIST DIMENSIONS AND SLOPE INFORMATION MUST BE PROVIDED FOR BRIDGING TYPES W, B & X
NOTE: BOLT DIAMETER 3/8", 1/2" OR 5/8", MUST BE PROVIDED FOR BRIDGING TYPES B & X

JOIST DIMENSIONS:



SPECIFY IF TO A BEAM OR WALL.
"D" IS CHANGE IN ELEVATION (+/-).

SLOPE 1 & SLOPE 2:



PIECES	BRIDGING MARK	ANGLE SIZE	BRIDGING TYPE	BOLT DIAMETER	"A"=JOIST MARK AND DEPTH	"B"=JOIST MARK AND DEPTH	SPACING "C"	ELEV. "D"	SLOPE 1	SLOPE 2

ECONOMICAL DESIGN GUIDE

ECONOMICAL LOAD TABLES

The following Economical Design Guide load tables are provided to aid designers in selecting the most economical joist for a given span and loading condition. The joist selections shown are listed based on production costs starting with the lowest cost joist for each span from 10'-0" through 145'-0". Refer to next page for definition of "Span". Bridging and erection costs have not been considered in the joist selections. The tables include K, LH and DLH Series joists.

Total load capacities are listed for both LRFD and ASD load conditions. Live loads which will produce an approximate deflection of 1/240 or 1/360 of the span are also listed. The tables also include an approximate weight per foot of each joist selection.

The tables have been shaded to indicate the joist selections requiring the installation of bolted diagonal bridging. Designers should consider erection costs associated with the bridging requirements when making joist selections.

Where the joist designation is shaded RED, SJI requires the row of bridging nearest to midspan to be bolted diagonal and shall be completely installed prior to releasing the hoisting cables.

Where the joist designation is shaded BLUE, SJI requires all rows of bridging to be bolted diagonal with the two rows nearest to the third points completely installed prior to releasing the hoisting cables.

Where the joist designation is shaded GRAY, SJI requires all rows of bridging to be bolted diagonal completely installed prior to releasing the hoisting cables.

LRFD vs. ASD DESIGN EXAMPLE

For most joist applications, the designer can potentially select a more economical joist by specifying LRFD load combinations.

For example: Given Joist with a 50'-0" span where Dead Load = 20 psf, and Live Load = 30 psf. Spacing between Joists is 6'-0" (roof application). The required Dead Load = 20 psf x 6 ft. = 120 plf, and the required Live Load = 30 psf x 6 ft. = 180 plf.

LRFD Load Case:
Using LRFD load case, the required factored load capacity for the joist is (1.2 x DL + 1.6 x LL) = (1.2 x 120 plf + 1.6 x 180 plf) = 432 plf. Page 32 of the Economical Joist Guide shows that for 50 ft. joist span the designer should choose a joist with LRFD load capacity of 436 plf. The table also shows that the service LL capacity for deflection of 1/240 of span (typical for roof application) is 249 plf > 180 plf (required service LL). The most economical joist under LRFD load case is a 30K10 (joist weight = 11.8 plf).

ASD Load Case:
Using ASD load case, the required service load capacity for the joist is (DL + LL) = (120 plf + 180 plf) = 300 plf. Page 32 of the Economical Joist Guide shows that for 50 ft. joist span the designer should choose a joist with ASD load capacity of 338 plf. The most economical joist under ASD load case is a 36LH07 (joist weight = 13.0 plf).

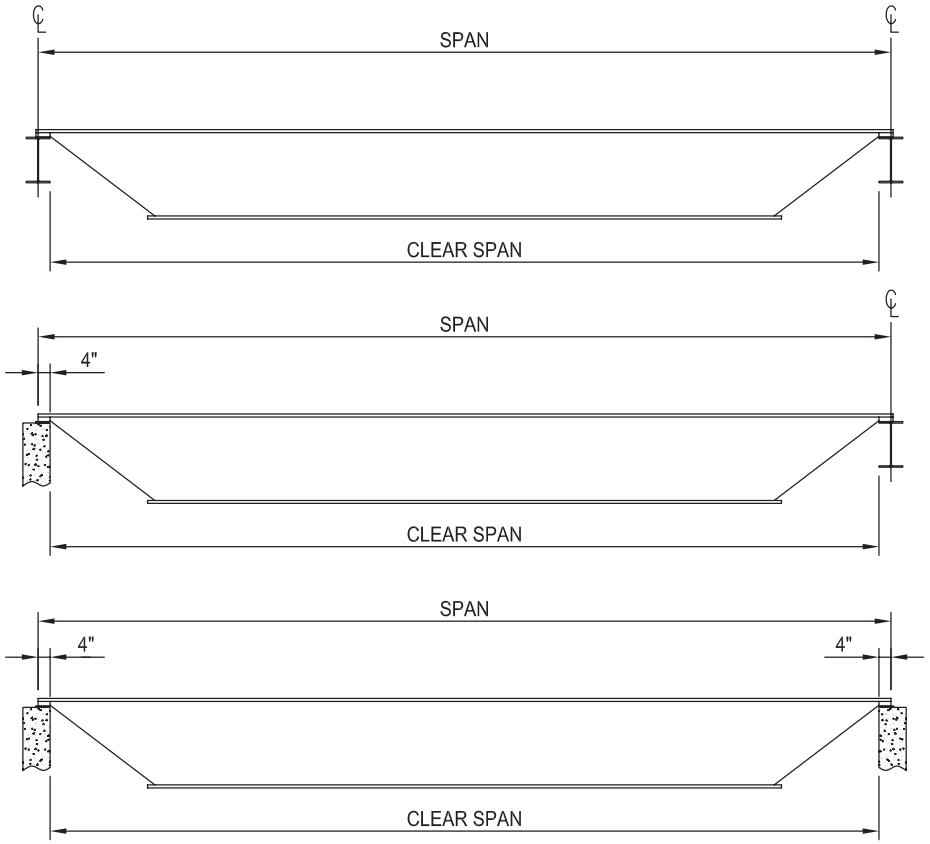
The designer should note that a more economical joist design can be selected using LRFD load case.

This condition is also true when using the published SJI Load Tables. Consider the previous example, where the maximum joist depth is 30 inches. Based on the LRFD SJI Load Table page 64, the 30K10 with a factored-load capacity of 436 plf > 432 plf (required factored TL) is selected. Based on the ASD SJI Load Table page 83, the 30K10 only has a service-load capacity of 291 plf < 300 plf (required TL) therefore the heavier 30K11 with a service-load capacity of 333 plf > 300 plf (required TL) is selected.

Again, it is shown that the LRFD load case can potentially allow the designer to select a more economical joist design.

DEFINITION OF SPAN

K-SERIES



LH, DLH-SERIES

SPAN = CLEAR SPAN + 12"

Notes:

1. Design Length = Span – 4".
2. Parallel chord joists installed to a slope greater than 1/2" per foot shall use Span defined by the length along the slope.

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
10	F 825	550	550	550	10K1	4.6
11	F 825	550	550	542	10K1	4.5
12	F 825	550	550	550	12K1	5.0
13	F 718	479	479	363	10K1	5.1
	F 825	550	550	510	12K1	5.2
14	F 618	412	412	289	10K1	4.5
	F 750	500	500	425	12K1	5.1
	F 825	550	550	463	12K3	5.3
15	F 537	358	351	234	10K1	4.6
	F 651	434	434	344	12K1	5.1
	F 814	543	543	428	12K3	5.5
	F 825	550	550	434	12K5	5.7
16	F 469	313	288	192	10K1	4.5
	F 570	380	380	282	12K1	4.7
	F 714	476	476	351	12K3	5.3
	F 825	550	550	467	14K3	5.9
17	F 415	277	238	159	10K1	4.5
	F 504	336	336	234	12K1	4.7
	F 630	420	420	291	12K3	5.4
	F 768	512	512	488	16K2	5.8
	F 825	550	550	526	16K3	6.4
18	F 369	246	201	134	10K1	4.5
	F 448	299	295	197	12K1	4.6
	F 561	374	367	245	12K3	5.3
	F 661	441	441	339	14K3	5.6
	F 684	456	456	409	16K2	6.1
	F 825	550	550	550	18K3	5.9
19	F 331	221	169	113	10K1	4.5
	F 402	268	250	167	12K1	4.6
	F 472	315	315	230	14K1	4.9
	F 502	335	310	207	12K3	5.3
	F 612	408	408	347	16K2	5.6
	F 771	514	514	494	18K3	5.8
	F 825	550	550	523	18K4	6.4
20	F 298	199	145	97	10K1	4.6
	F 361	241	213	142	12K1	4.7
	F 426	284	284	197	14K1	4.9
	F 453	302	265	177	12K3	5.4
	F 534	356	356	246	14K3	5.7
	F 552	368	368	297	16K2	5.8
	F 694	463	463	423	18K3	5.9
	F 775	517	517	517	20K3	6.4
	F 825	550	550	550	20K4	6.4
21	F 327	218	184	123	12K1	4.6
	F 385	257	255	170	14K1	4.8
	F 409	273	229	153	12K3	5.3
	F 483	322	318	212	14K3	5.5
	F 499	333	333	255	16K2	5.7
	F 556	371	371	285	16K3	5.9
	F 630	420	420	364	18K3	6.1
	F 702	468	468	453	20K3	6.5

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
21 (cont.)	F 759	506	506	426	18K4	6.9
	F 825	550	550	520	20K4	7.2
22	F 298	199	159	106	12K1	4.7
	F 351	234	220	147	14K1	4.9
	F 373	249	198	132	12K3	5.4
	F 439	293	276	184	14K3	5.5
	F 454	303	303	222	16K2	5.8
	F 505	337	337	247	16K3	6.0
	F 573	382	382	316	18K3	6.2
	F 639	426	426	393	20K3	6.0
	F 690	460	460	370	18K4	6.6
	F 777	518	518	414	18K5	7.2
	F 825	550	550	490	20K5	7.7
	F 831	554	554	439	18LH02	8.1
	F 921	614	614	488	18LH03	8.7
	F 1072	715	715	566	18LH04	9.8
	F 1212	808	808	637	18LH05	11.3
	F 1432	955	955	738	18LH06	13.2
	F 1488	992	992	776	18LH07	13.3
	F 1551	1034	1034	810	18LH08	14.0
	F 1662	1108	1108	864	18LH09	14.7
23	F 271	181	139	93	12K1	4.7
	F 321	214	192	128	14K1	4.8
	F 340	227	174	116	12K3	5.2
	F 402	268	240	160	14K3	5.4
	F 415	277	277	194	16K2	5.7
	F 462	308	308	216	16K3	5.9
	F 583	389	389	344	20K3	6.0
	F 630	420	420	323	18K4	6.5
	F 703	469	469	402	20K4	6.7
	F 777	518	518	491	22K4	7.0
	F 793	529	529	451	20K5	7.5
	F 825	550	550	468	20K6	7.5
	F 972	648	648	549	20LH04	9.3
	F 1045	697	697	589	20LH05	10.3
	F 1158	772	772	582	18LH05	11.4
	F 1396	931	931	777	20LH06	13.2
	F 1489	993	993	830	20LH07	13.3
	F 1534	1023	1023	858	20LH08	14.0
	F 1680	1120	1120	935	20LH09	14.9
	F 1813	1209	1209	1008	20LH10	15.7
24	F 249	166	121	81	12K1	4.7
	F 294	196	169	113	14K1	4.8
	F 312	208	151	101	12K3	5.3
	F 367	245	211	141	14K3	5.5
	F 381	254	254	170	16K2	5.8
	F 424	283	283	189	16K3	6.0
	F 535	357	357	302	20K3	5.9
	F 577	385	385	284	18K4	6.5
	F 645	430	430	353	20K4	6.7
	F 712	475	475	431	22K4	6.9

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
24 (cont.)	F 727	485	485	396	20K5	7.2
	F 780	520	520	516	24K4	7.3
	F 804	536	536	483	22K5	7.5
	F 825	550	550	544	24K5	7.8
	F 931	621	621	503	20LH04	9.4
	F 1002	668	668	540	20LH05	9.9
	F 1108	739	739	534	18LH05	11.7
	F 1336	891	891	713	20LH06	13.2
	F 1426	951	951	761	20LH07	14.0
	F 1470	980	980	787	20LH08	14.0
	F 1609	1073	1073	857	20LH09	15.6
	F 1737	1158	1158	924	20LH10	16.2
25	F 270	180	150	100	14K1	4.9
	F 351	234	225	150	16K2	5.7
	F 390	260	250	167	16K3	5.9
	F 441	294	294	214	18K3	6.3
	F 532	355	355	250	18K4	6.4
	F 594	396	396	312	20K4	6.6
	F 657	438	438	381	22K4	6.8
	F 669	446	446	350	20K5	7.2
	F 718	479	479	456	24K4	7.4
	F 739	493	493	427	22K5	7.5
	F 825	550	550	474	22K7	8.2
	F 894	596	596	463	20LH04	10.0
	F 960	640	640	497	20LH05	10.3
	F 1063	709	709	492	18LH05	11.7
	F 1282	855	855	656	20LH06	13.4
	F 1368	912	912	701	20LH07	14.3
	F 1410	940	940	724	20LH08	14.9
	F 1545	1030	1030	789	20LH09	15.6
	F 1666	1111	1111	851	20LH10	17.1
26	F 249	166	132	88	14K1	4.8
	F 313	209	165	110	14K3	5.5
	F 324	216	199	133	16K2	5.8
	F 408	272	272	190	18K3	5.9
	F 456	304	304	236	20K3	6.4
	F 492	328	328	222	18K4	6.5
	F 549	366	366	277	20K4	6.7
	F 606	404	404	338	22K4	7.0
	F 618	412	412	310	20K5	7.2
	F 663	442	442	405	24K4	7.3
	F 682	455	455	379	22K5	7.5
	F 744	496	496	411	22K6	7.9
	F 748	499	499	453	24K5	7.9
	F 750	500	500	373	20K7	8.4
	F 825	550	550	454	22K7	8.5
	F 861	574	574	428	20LH04	9.8
	F 924	616	616	459	20LH05	10.9
	F 1026	684	681	454	18LH05	13.0
	F 1233	822	822	606	20LH06	14.1
	F 1260	840	829	553	18LH07	14.6

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
26 (cont.)	F 1317	878	878	647	20LH07	14.8
	F 1362	908	908	669	20LH08	14.9
	F 1485	990	990	729	20LH09	16.2
	F 1602	1068	1068	786	20LH10	17.1
27	F 231	154	118	79	14K1	4.9
	F 300	200	178	119	16K2	5.7
	F 334	223	198	132	16K3	5.9
	F 378	252	252	169	18K3	6.3
	F 454	303	297	198	18K4	6.5
	F 508	339	339	247	20K4	6.6
	F 561	374	374	301	22K4	6.7
	F 573	382	382	277	20K5	7.3
	F 615	410	410	361	24K4	7.5
	F 633	422	422	337	22K5	7.3
	F 693	462	462	404	24K5	8.1
	F 754	503	503	439	24K6	8.8
	F 768	512	512	406	22K7	9.0
	F 820	547	547	519	26K6	9.6
	F 825	550	550	479	24K7	9.7
	F 849	566	566	406	20LH04	10.0
	F 913	609	609	437	20LH05	11.3
	F 972	648	621	414	18LH05	12.9
	F 1186	791	791	561	20LH06	14.0
	F 1267	845	845	599	20LH07	14.6
	F 1309	873	873	619	20LH08	15.3
	F 1429	953	953	675	20LH09	16.2
	F 1542	1028	1028	724	20LH10	17.6
28	F 214	143	105	70	14K1	4.8
	F 270	180	132	88	14K3	5.4
	F 279	186	159	106	16K2	5.7
	F 310	207	177	118	16K3	5.9
	F 351	234	226	151	18K3	6.0
	F 423	282	265	177	18K4	6.4
	F 472	315	315	221	20K4	6.5
	F 522	348	348	270	22K4	6.7
	F 571	381	381	323	24K4	6.8
	F 588	392	392	302	22K5	7.3
	F 643	429	429	362	24K5	7.6
	F 700	467	467	393	24K6	8.2
	F 712	475	475	364	22K7	8.5
	F 781	521	521	436	24K7	9.2
	F 825	550	550	456	24K8	9.6
	F 837	558	558	386	20LH04	11.2
	F 903	602	602	416	20LH05	11.6
	F 921	614	567	378	18LH05	12.9
	F 1144	763	763	521	20LH06	14.5
	F 1221	814	814	556	20LH07	15.3
	F 1263	842	842	575	20LH08	16.0
	F 1377	918	918	626	20LH09	16.7
	F 1486	991	991	673	20LH10	18.8

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
29	F 259	173	142	95	16K2	5.7
	F 289	193	159	106	16K3	5.8
	F 327	218	204	136	18K3	6.1
	F 394	263	238	159	18K4	6.4
	F 439	293	293	199	20K4	6.4
	F 486	324	324	242	22K4	6.5
	F 531	354	354	290	24K4	6.7
	F 547	365	365	272	22K5	7.2
	F 600	400	400	325	24K5	7.3
	F 651	434	434	384	26K5	7.6
	F 652	435	435	354	24K6	7.8
	F 709	473	473	417	26K6	8.3
	F 727	485	485	392	24K7	8.8
	F 738	492	492	397	24LH04	9.3
	F 766	511	511	486	28K6	9.0
	F 804	536	536	429	24K8	9.4
	F 825	550	550	479	26K8	9.3
	F 1062	708	708	567	24LH06	12.8
	F 1167	778	778	623	24LH07	14.3
	F 1245	830	830	662	24LH08	14.3
	F 1465	977	977	775	24LH09	16.9
	F 1548	1032	1032	822	24LH10	18.1
	F 1632	1088	1088	861	24LH11	18.9
30	F 241	161	129	86	16K2	5.8
	F 304	203	184	123	18K3	6.0
	F 367	245	216	144	18K4	6.4
	F 411	274	268	179	20K4	6.5
	F 453	302	302	219	22K4	6.5
	F 496	331	331	262	24K4	6.7
	F 511	341	341	245	22K5	7.2
	F 559	373	373	293	24K5	7.3
	F 607	405	405	346	26K5	7.6
	F 609	406	406	319	24K6	7.8
	F 619	413	413	295	22K7	8.3
	F 661	441	441	377	26K6	8.5
	F 679	453	453	353	24K7	8.7
	F 715	477	477	439	28K6	8.7
	F 750	500	500	387	24K8	9.4
	F 796	531	531	486	28K7	9.3
	F 816	544	544	457	26K8	9.7
	F 825	550	550	459	26K9	9.9
	F 856	571	549	366	20LH05	13.0
	F 1026	684	684	529	24LH06	13.4
	F 1128	752	752	582	24LH07	14.2
	F 1203	802	802	618	24LH08	15.4
	F 1416	944	944	724	24LH09	17.2
	F 1497	998	998	768	24LH10	18.6
	F 1578	1052	1052	804	24LH11	19.7
31	F 226	151	117	78	16K2	5.6
	F 252	168	130	87	16K3	5.9
	F 285	190	166	111	18K3	6.1

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
31 (cont.)	F 384	256	243	162	20K4	6.5
	F 424	283	283	198	22K4	6.6
	F 465	310	310	237	24K4	6.7
	F 478	319	319	222	22K5	7.3
	F 523	349	349	266	24K5	7.3
	F 568	379	379	314	26K5	7.7
	F 570	380	380	289	24K6	7.8
	F 619	413	413	341	26K6	8.0
	F 636	424	424	320	24K7	8.7
	F 669	446	446	397	28K6	8.6
	F 690	460	460	378	26K7	8.9
	F 702	468	468	350	24K8	9.4
	F 763	509	509	413	26K8	9.7
	F 765	510	510	379	24K9	10.1
	F 801	534	534	508	30K7	10.1
	F 825	550	550	444	26K9	10.3
	F 993	662	662	495	24LH06	13.3
	F 1090	727	727	545	24LH07	14.8
	F 1164	776	776	578	24LH08	15.6
	F 1369	913	913	677	24LH09	17.9
	F 1447	965	965	718	24LH10	18.6
	F 1525	1017	1017	752	24LH11	19.6
32	F 213	142	106	71	16K2	5.6
	F 237	158	118	79	16K3	6.0
	F 267	178	151	101	18K3	6.0
	F 298	199	189	126	20K3	6.5
	F 322	215	177	118	18K4	6.5
	F 360	240	220	147	20K4	6.5
	F 397	265	265	180	22K4	6.7
	F 435	290	290	215	24K4	6.8
	F 448	299	299	201	22K5	7.3
	F 490	327	327	241	24K5	7.4
	F 534	356	356	285	26K5	7.5
	F 544	363	363	266	24LH03	8.2
	F 580	387	387	309	26K6	8.2
	F 627	418	418	361	28K6	8.9
	F 648	432	432	343	26K7	9.3
	F 667	445	445	326	24LH04	9.8
	F 699	466	466	400	28K7	9.9
	F 751	501	501	461	30K7	10.2
	F 778	519	519	407	26K9	10.5
	F 823	549	549	431	26K10	11.2
	F 961	641	641	465	24LH06	13.9
	F 1056	704	704	511	24LH07	14.6
	F 1126	751	751	543	24LH08	15.4
	F 1326	884	884	635	24LH09	18.4
	F 1402	935	935	674	24LH10	18.9
	F 1477	985	985	705	24LH11	20.4
33	F 252	168	138	92	18K3	6.1
	F 303	202	162	108	18K4	6.4
	F 339	226	201	134	20K4	6.5

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
33 (cont.)	F 373	249	246	164	22K4	6.6
	F 409	273	273	196	24K4	6.7
	F 421	281	274	183	22K5	7.2
	F 462	308	308	220	24K5	7.4
	F 501	334	334	259	26K5	7.5
	F 502	335	335	239	24K6	7.9
	F 546	364	364	282	26K6	8.0
	F 559	373	373	265	24K7	8.5
	F 589	393	393	329	28K6	8.4
	F 609	406	406	312	26K7	8.6
	F 619	413	413	289	24K8	9.4
	F 672	448	448	342	26K8	9.7
	F 726	484	484	399	28K8	9.8
	F 780	520	520	460	30K8	10.2
	F 798	532	532	468	30K9	10.2
	F 931	621	621	437	24LH06	13.9
	F 1024	683	683	480	24LH07	15.4
	F 1092	728	728	510	24LH08	16.0
	F 1285	857	857	597	24LH09	18.8
	F 1359	906	906	633	24LH10	20.3
	F 1432	955	955	663	24LH11	21.1
34	F 237	158	126	84	18K3	6.0
	F 285	190	147	98	18K4	6.5
	F 318	212	183	122	20K4	6.5
	F 352	235	223	149	22K4	6.6
	F 385	257	257	179	24K4	6.6
	F 397	265	250	167	22K5	7.2
	F 435	290	290	201	24K5	7.3
	F 472	315	315	237	26K5	7.4
	F 514	343	343	257	26K6	7.9
	F 555	370	370	300	28K6	8.1
	F 573	382	382	285	26K7	8.8
	F 618	412	412	333	28K7	8.7
	F 633	422	422	312	26K8	9.5
	F 684	456	456	364	28K8	9.8
	F 735	490	490	420	30K8	10.3
	F 774	516	516	441	30K9	10.3
	F 828	552	552	443	28LH06	12.4
	F 906	604	604	411	24LH06	14.4
	F 936	624	624	499	28LH07	14.8
	F 1002	668	668	533	28LH08	14.4
	F 1060	707	707	480	24LH08	16.1
	F 1234	823	823	656	28LH09	17.4
	F 1248	832	832	562	24LH09	18.7
	F 1350	900	900	714	28LH10	18.6
	F 1447	965	965	763	28LH11	19.8
	F 1590	1060	1060	835	28LH12	21.2
	F 1657	1105	1105	872	28LH13	21.8
35	F 223	149	115	77	18K3	6.1
	F 300	200	168	112	20K4	6.5
	F 331	221	205	137	22K4	6.6

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
35 (cont.)	F 363	242	242	164	24K4	6.7
	F 373	249	229	153	22K5	7.2
	F 409	273	273	184	24K5	7.2
	F 445	297	297	217	26K5	7.4
	F 484	323	323	236	26K6	7.9
	F 523	349	349	275	28K6	8.0
	F 540	360	360	261	26K7	8.5
	F 583	389	389	305	28K7	9.0
	F 597	398	398	286	26K8	9.5
	F 627	418	418	351	30K7	9.5
	F 645	430	430	333	28K8	9.7
	F 693	462	462	384	30K8	9.9
	F 702	468	468	361	28K9	10.4
	F 751	501	501	389	28K10	10.6
	F 804	536	536	417	28LH06	12.8
	F 909	606	606	471	28LH07	14.2
	F 973	649	649	503	28LH08	14.3
	F 1015	677	670	447	24LH08	16.4
	F 1198	799	799	618	28LH09	17.4
	F 1311	874	874	673	28LH10	19.5
	F 1405	937	937	719	28LH11	19.5
	F 1545	1030	1030	787	28LH12	21.8
	F 1609	1073	1073	822	28LH13	22.9
36	F 211	141	105	70	18K3	6.0
	F 235	157	132	88	20K3	6.2
	F 253	169	123	82	18K4	6.5
	F 313	209	189	126	22K4	6.6
	F 343	229	225	150	24K4	6.8
	F 354	236	211	141	22K5	7.3
	F 387	258	253	169	24K5	7.3
	F 420	280	280	199	26K5	7.4
	F 421	281	274	183	24K6	7.9
	F 457	305	305	216	26K6	7.9
	F 495	330	330	252	28K6	8.1
	F 510	340	340	240	26K7	8.5
	F 550	367	367	280	28K7	8.7
	F 592	395	395	323	30K7	9.3
	F 609	406	406	306	28K8	9.6
	F 654	436	436	353	30K8	9.8
	F 663	442	442	332	28K9	10.3
	F 712	475	475	383	30K9	10.7
	F 730	487	487	392	30K10	11.0
	F 781	521	521	394	28LH06	12.7
	F 883	589	589	445	28LH07	14.1
	F 946	631	631	475	28LH08	15.0
	F 973	649	624	416	24LH08	16.1
	F 1165	777	777	584	28LH09	18.0
	F 1273	849	849	636	28LH10	19.4
	F 1366	911	911	680	28LH11	20.8
	F 1501	1001	1001	744	28LH12	22.6
	F 1564	1043	1043	777	28LH13	23.5

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
37	F 268	179	142	95	20K4	6.5
	F 297	198	174	116	22K4	6.6
	F 324	216	207	138	24K4	6.8
	F 334	223	195	130	22K5	7.2
	F 366	244	232	155	24K5	7.2
	F 397	265	265	183	26K5	7.4
	F 399	266	253	169	24K6	7.8
	F 433	289	289	199	26K6	7.9
	F 468	312	312	232	28K6	8.1
	F 522	348	348	257	28K7	8.9
	F 559	373	373	297	30K7	9.1
	F 576	384	384	282	28K8	9.7
	F 619	413	413	325	30K8	9.9
	F 627	418	418	305	28K9	10.5
	F 673	449	449	352	30K9	10.7
	F 690	460	460	308	26K10	11.6
	F 711	474	474	374	30K10	11.6
	F 760	507	507	373	28LH06	12.5
	F 859	573	573	421	28LH07	14.0
	F 882	588	550	367	24LH07	16.0
	F 921	614	614	449	28LH08	15.7
	F 933	622	582	388	24LH08	16.1
	F 1132	755	755	553	28LH09	18.4
	F 1239	826	826	602	28LH10	20.5
	F 1329	886	886	643	28LH11	20.8
	F 1461	974	974	704	28LH12	23.3
	F 1521	1014	1014	735	28LH13	23.9
38	F 211	141	111	74	20K3	6.2
	F 255	170	130	87	20K4	6.5
	F 280	187	160	107	22K4	6.6
	F 307	205	192	128	24K4	6.6
	F 316	211	178	119	22K5	7.2
	F 346	231	214	143	24K5	7.3
	F 376	251	251	169	26K5	7.4
	F 378	252	234	156	24K6	7.8
	F 411	274	274	184	26K6	7.9
	F 444	296	296	214	28K6	8.1
	F 457	305	305	204	26K7	8.5
	F 465	310	283	189	24K8	9.1
	F 493	329	329	237	28K7	8.7
	F 531	354	354	274	30K7	8.9
	F 546	364	364	260	28K8	9.4
	F 558	372	372	268	28LH05	10.0
	F 586	391	391	300	30K8	9.9
	F 594	396	396	282	28K9	10.4
	F 639	426	426	325	30K9	10.6
	F 654	436	426	284	26K10	11.6
	F 691	461	461	353	30K10	11.7
	F 741	494	494	354	28LH06	13.3
	F 756	504	459	306	24LH06	14.4
	F 835	557	557	399	28LH07	14.1

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
38 (cont.)	F 895	597	597	426	28LH08	15.5
	F 1102	735	735	524	28LH09	18.8
	F 1206	804	804	570	28LH10	20.4
	F 1294	863	863	609	28LH11	21.3
	F 1422	948	948	667	28LH12	23.0
	F 1482	988	988	696	28LH13	23.9
39	F 199	133	103	69	20K3	6.3
	F 241	161	121	81	20K4	6.5
	F 267	178	147	98	22K4	6.6
	F 292	195	177	118	24K4	6.6
	F 300	200	165	110	22K5	7.2
	F 328	219	198	132	24K5	7.3
	F 357	238	234	156	26K5	7.4
	F 358	239	216	144	24K6	7.8
	F 390	260	255	170	26K6	7.9
	F 420	280	280	198	28K6	8.0
	F 433	289	282	188	26K7	8.5
	F 469	313	313	219	28K7	8.6
	F 480	320	309	206	26K8	9.2
	F 504	336	336	253	30K7	9.1
	F 519	346	346	240	28K8	9.6
	F 556	371	371	277	30K8	9.7
	F 564	376	376	260	28K9	10.3
	F 606	404	404	300	30K9	10.4
	F 619	413	393	262	26K10	11.5
	F 670	447	447	306	28K10	11.7
	F 673	449	449	308	28K12	11.7
	F 729	486	486	388	32LH07	12.5
	F 792	528	528	421	32LH08	13.7
	F 814	543	543	379	28LH07	15.3
	F 873	582	582	404	28LH08	15.4
	F 993	662	662	526	32LH09	16.5
	F 1098	732	732	581	32LH10	18.0
	F 1203	802	802	635	32LH11	19.6
	F 1260	840	840	578	28LH11	22.0
	F 1411	941	941	742	32LH12	22.5
	F 1443	962	962	661	28LH13	23.8
	F 1575	1050	1050	825	32LH13	24.7
	F 1621	1081	1081	850	32LH14	25.9
	F 1675	1117	1117	878	32LH15	26.9
40	F 190	127	96	64	20K3	6.2
	F 253	169	136	91	22K4	6.6
	F 277	185	163	109	24K4	6.6
	F 285	190	153	102	22K5	7.2
	F 312	208	183	122	24K5	7.3
	F 340	227	217	145	26K5	7.3
	F 370	247	235	157	26K6	8.0
	F 399	266	266	183	28K6	8.1
	F 412	275	261	174	26K7	8.5
	F 445	297	297	203	28K7	8.6
	F 456	304	286	191	26K8	9.1

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
40 (cont.)	F 478	319	319	234	30K7	9.0
	F 492	328	328	222	28K8	9.5
	F 529	353	353	256	30K8	9.7
	F 535	357	357	241	28K9	10.2
	F 576	384	384	278	30K9	10.4
	F 589	393	364	243	26K10	11.6
	F 636	424	424	284	28K10	11.7
	F 657	438	438	315	30K10	11.8
	F 711	474	474	368	32LH07	12.9
	F 771	514	514	400	32LH08	14.2
	F 793	529	529	360	28LH07	15.4
	F 850	567	567	384	28LH08	15.4
	F 967	645	645	500	32LH09	16.3
	F 1069	713	713	552	32LH10	17.8
	F 1171	781	781	604	32LH11	19.8
	F 1228	819	819	549	28LH11	21.5
	F 1377	918	918	705	32LH12	23.0
	F 1534	1023	1023	784	32LH13	24.4
	F 1581	1054	1054	807	32LH14	25.8
	F 1633	1089	1089	834	32LH15	26.9
41	F 241	161	127	85	22K4	6.6
	F 264	176	151	101	24K4	6.7
	F 271	181	142	95	22K5	7.2
	F 297	198	171	114	24K5	7.3
	F 322	215	201	134	26K5	7.4
	F 324	216	186	124	24K6	7.8
	F 352	235	219	146	26K6	8.0
	F 379	253	253	170	28K6	8.1
	F 393	262	243	162	26K7	8.5
	F 424	283	283	189	28K7	8.6
	F 454	303	303	217	30K7	8.7
	F 468	312	309	206	28K8	9.5
	F 502	335	335	238	30K8	9.7
	F 510	340	336	224	28K9	10.2
	F 547	365	365	258	30K9	10.3
	F 561	374	337	225	26K10	11.6
	F 606	404	394	263	28K10	11.7
	F 616	411	411	315	32LH06	11.6
	F 640	427	427	300	30K10	11.8
	F 693	462	462	351	32LH07	12.8
	F 753	502	502	380	32LH08	14.3
	F 774	516	513	342	28LH07	15.5
	F 829	553	547	365	28LH08	16.4
	F 943	629	629	476	32LH09	16.9
	F 1044	696	696	525	32LH10	19.2
	F 1143	762	762	574	32LH11	20.3
	F 1342	895	895	671	32LH12	22.9
	F 1372	915	895	597	28LH13	25.3
	F 1497	998	998	746	32LH13	25.6
	F 1542	1028	1028	768	32LH14	26.5
	F 1593	1062	1062	794	32LH15	26.7

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
42	F 229	153	118	79	22K4	6.6
	F 252	168	141	94	24K4	6.6
	F 259	173	132	88	22K5	7.2
	F 283	189	159	106	24K5	7.3
	F 307	205	187	125	26K5	7.4
	F 309	206	172	115	24K6	7.8
	F 336	224	204	136	26K6	7.9
	F 361	241	237	158	28K6	8.0
	F 373	249	225	150	26K7	8.5
	F 403	269	262	175	28K7	8.5
	F 433	289	289	202	30K7	8.9
	F 445	297	288	192	28K8	9.4
	F 480	320	320	221	30K8	9.5
	F 486	324	312	208	28K9	10.2
	F 522	348	348	240	30K9	10.4
	F 576	384	367	245	28K10	11.6
	F 601	401	401	300	32LH06	12.1
	F 619	413	413	282	30K10	12.2
	F 676	451	451	334	32LH07	12.7
	F 735	490	490	362	32LH08	14.2
	F 757	505	489	326	28LH07	15.5
	F 810	540	522	348	28LH08	16.4
	F 921	614	614	453	32LH09	16.8
	F 1018	679	679	500	32LH10	19.1
	F 1116	744	744	547	32LH11	20.8
	F 1170	780	747	498	28LH11	23.2
	F 1311	874	874	639	32LH12	24.2
	F 1461	974	974	710	32LH13	26.5
	F 1504	1003	1003	732	32LH14	26.5
	F 1555	1037	1037	756	32LH15	26.5
43	F 219	146	109	73	22K4	6.6
	F 240	160	132	88	24K4	6.6
	F 247	165	123	82	22K5	7.2
	F 270	180	147	98	24K5	7.2
	F 294	196	174	116	26K5	7.4
	F 319	213	189	126	26K6	7.9
	F 345	230	220	147	28K6	8.1
	F 357	238	210	140	26K7	8.6
	F 385	257	244	163	28K7	8.7
	F 414	276	276	188	30K7	8.8
	F 426	284	268	179	28K8	9.2
	F 457	305	305	206	30K8	9.7
	F 463	309	291	194	28K9	10.3
	F 498	332	332	223	30K9	10.4
	F 508	339	292	195	26K10	11.6
	F 550	367	342	228	28K10	11.7
	F 591	394	394	263	30K10	11.8
	F 610	407	405	270	30K11	12.5
	F 651	434	434	354	36LH08	12.6
	F 661	441	441	318	32LH07	13.8
	F 717	478	478	346	32LH08	14.2

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
43 (cont.)	F 726	484	457	305	28LH07	15.5
	F 832	555	555	451	36LH09	15.4
	F 918	612	612	499	36LH10	16.7
	F 1002	668	668	543	36LH11	18.2
	F 1090	727	727	522	32LH11	20.7
	F 1198	799	799	647	36LH12	21.2
	F 1279	853	853	610	32LH12	24.1
	F 1410	940	940	758	36LH13	23.9
	F 1426	951	951	678	32LH13	26.5
	F 1470	980	980	698	32LH14	26.5
	F 1554	1036	1036	833	36LH14	26.9
	F 1638	1092	1092	877	36LH15	28.4
44	F 208	139	102	68	22K4	6.6
	F 229	153	123	82	24K4	6.6
	F 235	157	114	76	22K5	7.1
	F 258	172	138	92	24K5	7.3
	F 280	187	162	108	26K5	7.4
	F 306	204	177	118	26K6	7.9
	F 330	220	205	137	28K6	8.0
	F 340	227	196	131	26K7	8.6
	F 367	245	228	152	28K7	8.7
	F 394	263	263	176	30K7	8.8
	F 406	271	250	167	28K8	9.3
	F 436	291	288	192	30K8	9.7
	F 442	295	271	181	28K9	10.2
	F 475	317	312	208	30K9	10.4
	F 486	324	273	182	26K10	11.5
	F 525	350	318	212	28K10	11.6
	F 564	376	367	245	30K10	11.7
	F 577	385	385	309	36LH07	11.4
	F 636	424	424	338	36LH08	12.7
	F 646	431	431	304	32LH07	14.0
	F 700	467	467	330	32LH08	14.5
	F 814	543	543	431	36LH09	15.3
	F 897	598	598	476	36LH10	16.6
	F 979	653	653	518	36LH11	18.3
	F 1065	710	710	498	32LH11	20.6
	F 1171	781	781	617	36LH12	21.7
	F 1251	834	834	582	32LH12	24.0
	F 1377	918	918	724	36LH13	24.6
	F 1395	930	930	647	32LH13	26.4
	F 1435	957	957	666	32LH14	27.4
	F 1518	1012	1012	795	36LH14	26.9
	F 1600	1067	1067	837	36LH15	28.8
45	F 219	146	114	76	24K4	6.7
	F 246	164	129	86	24K5	7.3
	F 268	179	151	101	26K5	7.4
	F 291	194	165	110	26K6	7.9
	F 315	210	192	128	28K6	8.0
	F 325	217	183	122	26K7	8.6
	F 351	234	213	142	28K7	8.7

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
45 (cont.)	F 376	251	246	164	30K7	8.7
	F 388	259	234	156	28K8	9.3
	F 417	278	268	179	30K8	9.4
	F 423	282	253	169	28K9	10.2
	F 454	303	292	195	30K9	10.4
	F 465	310	255	170	26K10	11.6
	F 501	334	297	198	28K10	11.7
	F 538	359	343	229	30K10	11.8
	F 564	376	376	295	36LH07	12.2
	F 583	389	369	246	30K11	13.2
	F 621	414	414	323	36LH08	13.0
	F 631	421	421	291	32LH07	14.3
	F 685	457	457	315	32LH08	15.0
	F 712	475	427	285	28LH08	16.0
	F 796	531	531	412	36LH09	15.7
	F 876	584	584	455	36LH10	16.7
	F 957	638	638	495	36LH11	18.2
	F 1041	694	694	476	32LH11	20.8
	F 1144	763	763	590	36LH12	21.7
	F 1222	815	815	556	32LH12	23.9
	F 1347	898	898	692	36LH13	25.7
	F 1363	909	909	618	32LH13	27.3
	F 1483	989	989	760	36LH14	26.9
	F 1564	1043	1043	800	36LH15	29.8
46	F 208	139	106	71	24K4	6.6
	F 235	157	120	80	24K5	7.2
	F 256	171	142	95	26K5	7.4
	F 279	186	154	103	26K6	7.9
	F 301	201	180	120	28K6	8.0
	F 336	224	199	133	28K7	8.6
	F 361	241	229	153	30K7	8.7
	F 372	248	219	146	28K8	9.2
	F 399	266	252	168	30K8	9.3
	F 405	270	237	158	28K9	10.4
	F 435	290	273	182	30K9	10.7
	F 480	320	279	186	28K10	11.6
	F 516	344	321	214	30K10	11.8
	F 552	368	368	282	36LH07	12.4
	F 607	405	405	309	36LH08	12.8
	F 618	412	412	278	32LH07	14.2
	F 640	427	376	251	28LH07	15.4
	F 670	447	447	302	32LH08	15.1
	F 684	456	402	268	28LH08	16.1
	F 778	519	519	394	36LH09	15.7
	F 856	571	571	435	36LH10	17.9
	F 936	624	624	474	36LH11	19.6
	F 1120	747	747	564	36LH12	21.6
	F 1317	878	878	662	36LH13	24.8
	F 1333	889	886	591	32LH13	28.0
	F 1452	968	968	727	36LH14	27.2
	F 1530	1020	1020	765	36LH15	29.6

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
47	F 199	133	100	67	24K4	6.6
	F 225	150	112	75	24K5	7.2
	F 246	164	133	89	26K5	7.3
	F 267	178	144	96	26K6	7.9
	F 288	192	168	112	28K6	7.9
	F 298	199	160	107	26K7	8.5
	F 321	214	187	125	28K7	8.7
	F 345	230	216	144	30K7	8.7
	F 355	237	204	136	28K8	9.3
	F 382	255	235	157	30K8	9.4
	F 387	258	222	148	28K9	10.0
	F 415	277	256	171	30K9	10.4
	F 426	284	223	149	26K10	11.6
	F 459	306	261	174	28K10	11.6
	F 493	329	301	201	30K10	11.8
	F 540	360	360	270	36LH07	12.4
	F 594	396	396	296	36LH08	13.0
	F 604	403	399	266	32LH07	14.1
	F 655	437	433	289	32LH08	14.8
	F 657	438	378	252	28LH08	16.1
	F 762	508	508	377	36LH09	15.7
	F 838	559	559	417	36LH10	17.9
	F 909	606	598	399	32LH10	20.5
	F 916	611	611	454	36LH11	20.5
	F 996	664	654	436	32LH11	22.2
	F 1096	731	731	541	36LH12	21.9
	F 1170	780	765	510	32LH12	25.2
	F 1288	859	859	634	36LH13	25.8
	F 1305	870	849	566	32LH13	27.7
	F 1420	947	947	696	36LH14	29.0
	F 1498	999	999	733	36LH15	29.5
48	F 192	128	94	63	24K4	6.6
	F 216	144	105	70	24K5	7.2
	F 235	157	124	83	26K5	7.3
	F 256	171	135	90	26K6	7.9
	F 276	184	157	105	28K6	7.9
	F 285	190	150	100	26K7	8.5
	F 309	206	175	117	28K7	8.6
	F 331	221	202	135	30K7	8.7
	F 340	227	192	128	28K8	9.3
	F 366	244	222	148	30K8	9.4
	F 370	247	208	139	28K9	10.0
	F 399	266	240	160	30K9	10.4
	F 408	272	210	140	26K10	11.5
	F 441	294	244	163	28K10	11.6
	F 472	315	282	188	30K10	11.7
	F 528	352	352	259	36LH07	12.4
	F 543	362	322	215	30K11	13.3
	F 547	365	324	216	30K12	13.3
	F 582	388	388	284	36LH08	13.7
	F 591	394	382	255	32LH07	14.1

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
48 (cont.)	F 642	428	415	277	32LH08	15.6
	F 685	457	457	372	40LH09	15.5
	F 745	497	497	361	36LH09	16.4
	F 754	503	503	410	40LH10	15.6
	F 825	550	550	444	40LH11	17.0
	F 897	598	598	435	36LH11	20.3
	F 1003	669	669	541	40LH12	19.9
	F 1072	715	715	518	36LH12	21.8
	F 1183	789	789	634	40LH13	23.8
	F 1261	841	841	607	36LH13	26.4
	F 1353	902	902	727	40LH14	26.2
	F 1390	927	927	667	36LH14	29.0
	F 1467	978	978	703	36LH15	29.5
	F 1513	1009	1009	810	40LH15	28.9
	F 1668	1112	1112	890	40LH16	31.6
49	F 225	150	117	78	26K5	7.3
	F 246	164	127	85	26K6	7.9
	F 265	177	148	99	28K6	8.0
	F 274	183	141	94	26K7	8.5
	F 295	197	165	110	28K7	8.7
	F 318	212	190	127	30K7	8.7
	F 327	218	180	120	28K8	9.3
	F 351	234	208	139	30K8	9.3
	F 355	237	195	130	28K9	10.0
	F 382	255	225	150	30K9	10.1
	F 391	261	196	131	26K10	11.6
	F 423	282	229	153	28K10	11.7
	F 454	303	265	177	30K10	11.8
	F 514	343	330	220	32LH06	13.1
	F 520	347	303	202	30K11	13.2
	F 535	357	310	207	30K12	13.8
	F 570	380	380	272	36LH08	14.2
	F 579	386	367	245	32LH07	14.7
	F 628	419	399	266	32LH08	15.5
	F 672	448	448	357	40LH09	15.4
	F 739	493	493	393	40LH10	16.1
	F 807	538	538	426	40LH11	17.6
	F 879	586	586	417	36LH11	20.2
	F 982	655	655	519	40LH12	20.2
	F 1051	701	701	497	36LH12	21.7
	F 1159	773	773	609	40LH13	23.8
	F 1236	824	824	583	36LH13	26.4
	F 1326	884	884	697	40LH14	26.2
	F 1362	908	908	640	36LH14	29.0
	F 1435	957	957	674	36LH15	29.3
	F 1482	988	988	777	40LH15	30.0
	F 1633	1089	1089	854	40LH16	32.4
50	F 216	144	109	73	26K5	7.3
	F 255	170	139	93	28K6	7.9
	F 262	175	133	89	26K7	8.5
	F 283	189	154	103	28K7	8.6

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
50 (cont.)	F 304	203	178	119	30K7	8.7
	F 313	209	169	113	28K8	9.3
	F 337	225	195	130	30K8	9.3
	F 342	228	184	123	28K9	9.9
	F 367	245	211	141	30K9	10.1
	F 405	270	216	144	28K10	11.7
	F 436	291	249	166	30K10	11.8
	F 507	338	338	239	36LH07	13.0
	F 525	350	298	199	30K12	14.6
	F 558	372	372	262	36LH08	14.4
	F 568	379	352	235	32LH07	14.8
	F 616	411	382	255	32LH08	15.6
	F 658	439	439	343	40LH09	15.4
	F 724	483	483	378	40LH10	16.7
	F 787	525	525	368	36LH10	18.8
	F 790	527	527	409	40LH11	18.8
	F 861	574	574	400	36LH11	19.5
	F 963	642	642	498	40LH12	19.9
	F 1030	687	687	477	36LH12	23.0
	F 1135	757	757	584	40LH13	23.7
	F 1210	807	807	559	36LH13	26.2
	F 1299	866	866	669	40LH14	26.8
	F 1335	890	890	615	36LH14	29.0
	F 1452	968	968	746	40LH15	29.7
	F 1600	1067	1067	820	40LH16	34.0
51	F 208	139	103	69	26K5	7.3
	F 226	151	112	75	26K6	7.9
	F 244	163	132	88	28K6	8.0
	F 252	168	124	83	26K7	8.5
	F 273	182	145	97	28K7	8.6
	F 292	195	168	112	30K7	8.8
	F 301	201	159	106	28K8	9.3
	F 324	216	184	123	30K8	9.5
	F 328	219	172	115	28K9	10.0
	F 352	235	199	133	30K9	10.1
	F 355	237	189	126	28LH05	11.1
	F 361	241	174	116	26K10	11.4
	F 390	260	204	136	28K10	11.7
	F 418	279	235	157	30K10	11.8
	F 498	332	332	229	36LH07	13.0
	F 507	338	262	175	28K12	14.6
	F 514	343	288	192	30K12	14.6
	F 547	365	365	251	36LH08	14.3
	F 549	366	334	223	32LH07	14.7
	F 556	371	294	196	28LH08	16.0
	F 595	397	363	242	32LH08	16.1
	F 645	430	430	329	40LH09	15.3
	F 711	474	474	363	40LH10	16.7
	F 772	515	515	354	36LH10	18.7
	F 775	517	517	393	40LH11	18.6
	F 843	562	562	385	36LH11	20.4

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
51 (cont.)	F 945	630	630	479	40LH12	21.0
	F 1009	673	673	459	36LH12	23.7
	F 1113	742	742	562	40LH13	24.3
	F 1273	849	849	643	40LH14	27.3
	F 1308	872	872	591	36LH14	28.9
	F 1423	949	949	717	40LH15	30.3
	F 1569	1046	1046	788	40LH16	34.0
52	F 199	133	97	65	26K5	7.3
	F 217	145	106	71	26K6	7.9
	F 235	157	124	83	28K6	8.0
	F 243	162	118	79	26K7	8.5
	F 262	175	138	92	28K7	8.6
	F 282	188	159	106	30K7	8.7
	F 289	193	150	100	28K8	9.3
	F 312	208	174	116	30K8	9.4
	F 315	210	163	109	28K9	10.0
	F 339	226	189	126	30K9	10.1
	F 342	228	178	119	28LH05	11.1
	F 346	231	165	110	26K10	11.4
	F 375	250	192	128	28K10	11.7
	F 402	268	222	148	30K10	11.8
	F 487	325	325	220	36LH07	13.0
	F 537	358	358	242	36LH08	14.1
	F 574	383	343	229	32LH08	15.5
	F 633	422	422	317	40LH09	16.0
	F 688	459	459	308	36LH09	17.2
	F 696	464	464	349	40LH10	17.5
	F 757	505	505	340	36LH10	18.9
	F 760	507	507	378	40LH11	18.5
	F 828	552	552	370	36LH11	20.8
	F 925	617	617	460	40LH12	20.9
	F 990	660	660	441	36LH12	24.4
	F 1092	728	728	540	40LH13	24.3
	F 1164	776	775	517	36LH13	27.8
	F 1248	832	832	619	40LH14	27.3
	F 1282	855	852	568	36LH14	30.7
	F 1396	931	931	690	40LH15	30.7
	F 1539	1026	1026	758	40LH16	33.8
53	F 226	151	117	78	28K6	8.0
	F 252	168	130	87	28K7	8.6
	F 271	181	150	100	30K7	8.8
	F 279	186	142	95	28K8	9.3
	F 300	200	163	109	30K8	9.4
	F 304	203	154	103	28K9	10.3
	F 327	218	178	119	30K9	10.4
	F 330	220	169	113	28LH05	11.1
	F 360	240	181	121	28K10	11.7
	F 387	258	210	140	30K10	11.7
	F 472	315	315	233	40LH08	12.6
	F 478	319	318	212	36LH07	13.4
	F 526	351	349	233	36LH08	14.3

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
53 (cont.)	F 553	369	324	216	32LH08	15.5
	F 570	380	380	309	44LH09	14.2
	F 630	420	420	340	44LH10	15.6
	F 675	450	444	296	36LH09	17.1
	F 681	454	454	368	44LH11	16.3
	F 684	456	456	336	40LH10	17.3
	F 745	497	497	364	40LH11	18.4
	F 843	562	562	454	44LH12	19.3
	F 909	606	606	443	40LH12	21.5
	F 999	666	666	538	44LH13	21.7
	F 1071	714	714	520	40LH13	24.3
	F 1150	767	767	616	44LH14	25.9
	F 1224	816	816	595	40LH14	27.9
	F 1338	892	892	716	44LH15	28.9
	F 1369	913	913	664	40LH15	30.8
	F 1509	1006	1006	729	40LH16	33.8
	F 1543	1029	1029	824	44LH16	34.3
	F 1657	1105	1105	880	44LH17	39.1
54	F 217	145	111	74	28K6	8.0
	F 243	162	123	82	28K7	8.5
	F 261	174	141	94	30K7	8.7
	F 268	179	133	89	28K8	9.3
	F 288	192	154	103	30K8	9.4
	F 292	195	145	97	28K9	10.0
	F 313	209	168	112	30K9	10.1
	F 319	213	160	107	28LH05	11.0
	F 348	232	171	114	28K10	11.7
	F 373	249	198	132	30K10	11.8
	F 427	285	225	150	30K11	13.1
	F 441	294	253	169	32LH06	13.3
	F 463	309	309	225	40LH08	12.8
	F 469	313	306	204	36LH07	13.4
	F 486	324	255	170	30K12	14.8
	F 517	345	336	224	36LH08	14.4
	F 559	373	373	298	44LH09	14.2
	F 618	412	412	328	44LH10	15.7
	F 663	442	427	285	36LH09	17.6
	F 667	445	445	354	44LH11	16.9
	F 670	447	447	323	40LH10	17.9
	F 732	488	488	350	40LH11	18.5
	F 828	552	552	437	44LH12	19.3
	F 891	594	594	427	40LH12	21.5
	F 981	654	654	518	44LH13	23.0
	F 1051	701	701	501	40LH13	24.7
	F 1129	753	753	594	44LH14	26.0
	F 1201	801	801	573	40LH14	28.9
	F 1314	876	876	690	44LH15	29.0
	F 1344	896	896	639	40LH15	31.5
	F 1482	988	988	702	40LH16	34.4
	F 1515	1010	1010	793	44LH16	34.4
	F 1626	1084	1084	848	44LH17	39.1

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
55	F 210	140	105	70	28K6	7.9
	F 234	156	115	77	28K7	8.6
	F 252	168	133	89	30K7	8.7
	F 259	173	127	85	28K8	9.3
	F 277	185	147	98	30K8	9.4
	F 282	188	138	92	28K9	10.0
	F 303	202	159	106	30K9	10.1
	F 309	206	153	102	28LH05	11.0
	F 334	223	162	108	28K10	11.7
	F 360	240	187	125	30K10	11.8
	F 426	284	241	161	32LH06	13.3
	F 456	304	304	216	40LH08	13.1
	F 460	307	295	197	36LH07	13.5
	F 507	338	324	216	36LH08	14.4
	F 517	345	291	194	32LH08	16.0
	F 549	366	366	287	44LH09	15.5
	F 598	399	399	283	40LH09	16.3
	F 606	404	404	316	44LH10	16.0
	F 658	439	439	312	40LH10	17.7
	F 718	479	479	338	40LH11	18.6
	F 811	541	541	421	44LH12	20.0
	F 876	584	584	411	40LH12	21.3
	F 963	642	642	499	44LH13	23.1
	F 1032	688	688	482	40LH13	25.6
	F 1108	739	739	572	44LH14	25.7
	F 1180	787	787	553	40LH14	29.0
	F 1290	860	860	665	44LH15	29.6
	F 1320	880	880	616	40LH15	31.5
	F 1453	969	969	677	40LH16	34.3
	F 1486	991	991	764	44LH16	34.3
	F 1597	1065	1065	817	44LH17	39.1
56	F 202	135	99	66	28K6	7.9
	F 226	151	109	73	28K7	8.6
	F 243	162	126	84	30K7	8.6
	F 249	166	120	80	28K8	9.2
	F 268	179	138	92	30K8	9.4
	F 271	181	130	87	28K9	10.0
	F 292	195	150	100	30K9	10.2
	F 298	199	145	97	28LH05	11.0
	F 322	215	153	102	28K10	11.5
	F 346	231	177	118	30K10	11.7
	F 412	275	229	153	32LH06	13.2
	F 447	298	298	209	40LH08	13.1
	F 453	302	285	190	36LH07	14.2
	F 462	308	255	170	32LH07	14.7
	F 498	332	312	208	36LH08	15.1
	F 499	333	276	184	32LH08	16.1
	F 538	359	359	277	44LH09	15.3
	F 588	392	392	273	40LH09	16.3
	F 595	397	397	305	44LH10	15.9
	F 643	429	429	329	44LH11	16.9

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
56 (cont.)	F 646	431	431	301	40LH10	17.7
	F 706	471	471	326	40LH11	19.4
	F 798	532	532	406	44LH12	20.0
	F 859	573	573	397	40LH12	22.3
	F 946	631	631	482	44LH13	23.5
	F 1089	726	726	552	44LH14	25.6
	F 1158	772	772	533	40LH14	29.0
	F 1266	844	844	641	44LH15	30.0
	F 1296	864	864	594	40LH15	31.9
	F 1461	974	974	737	44LH16	34.3
	F 1567	1045	1045	788	44LH17	39.4
57	F 234	156	120	80	30K7	8.7
	F 259	173	132	88	30K8	9.4
	F 282	188	142	95	30K9	10.1
	F 289	193	138	92	28LH05	11.0
	F 334	223	168	112	30K10	11.7
	F 399	266	217	145	32LH06	13.2
	F 439	293	293	201	40LH08	13.0
	F 444	296	274	183	36LH07	14.2
	F 447	298	243	162	32LH07	14.7
	F 489	326	301	201	36LH08	14.9
	F 529	353	353	267	44LH09	15.3
	F 577	385	385	263	40LH09	16.1
	F 585	390	390	294	44LH10	16.5
	F 633	422	422	318	44LH11	16.8
	F 636	424	424	290	40LH10	17.7
	F 691	461	424	283	36LH10	20.0
	F 783	522	522	392	44LH12	19.7
	F 868	579	579	474	48LH13	21.3
	F 928	619	619	465	44LH13	23.4
	F 1069	713	713	532	44LH14	25.8
	F 1138	759	759	514	40LH14	29.8
	F 1177	785	785	640	48LH15	28.2
	F 1243	829	829	619	44LH15	30.5
	F 1273	849	849	573	40LH15	32.4
	F 1357	905	905	737	48LH16	31.8
	F 1434	956	956	711	44LH16	34.0
	F 1524	1016	1016	825	48LH17	38.5
	F 1540	1027	1027	760	44LH17	39.6
58	F 226	151	114	76	30K7	8.7
	F 250	167	124	83	30K8	9.4
	F 271	181	135	90	30K9	10.1
	F 322	215	159	106	30K10	11.8
	F 385	257	207	138	32LH06	13.1
	F 432	288	288	195	40LH08	13.0
	F 438	292	265	177	36LH07	14.1
	F 481	321	291	194	36LH08	14.8
	F 520	347	347	258	44LH09	15.2
	F 567	378	378	254	40LH09	16.1
	F 574	383	383	284	44LH10	16.5
	F 621	414	414	307	44LH11	16.8

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
58 (cont.)	F 624	416	416	280	40LH10	18.6
	F 769	513	513	379	44LH12	19.6
	F 853	569	569	457	48LH13	21.4
	F 913	609	609	449	44LH13	23.3
	F 978	652	651	434	40LH13	26.6
	F 1006	671	671	539	48LH14	25.5
	F 1051	701	701	514	44LH14	26.7
	F 1119	746	745	497	40LH14	29.4
	F 1158	772	772	618	48LH15	29.0
	F 1222	815	815	597	44LH15	30.8
	F 1251	834	831	554	40LH15	32.3
	F 1335	890	890	712	48LH16	31.8
	F 1410	940	940	687	44LH16	34.7
	F 1498	999	999	796	48LH17	38.5
	F 1513	1009	1009	734	44LH17	40.4
59	F 219	146	108	72	30K7	8.7
	F 241	161	118	79	30K8	9.4
	F 262	175	129	86	30K9	10.2
	F 312	208	151	101	30K10	11.8
	F 373	249	196	131	32LH06	13.1
	F 424	283	282	188	40LH08	12.9
	F 466	311	277	185	36LH08	14.9
	F 511	341	341	249	44LH09	15.0
	F 565	377	377	274	44LH10	16.4
	F 610	407	407	296	44LH11	17.2
	F 613	409	406	271	40LH10	18.5
	F 670	447	439	293	40LH11	20.2
	F 757	505	505	366	44LH12	19.7
	F 838	559	559	442	48LH13	21.3
	F 897	598	598	434	44LH13	23.3
	F 961	641	628	419	40LH13	26.5
	F 990	660	660	521	48LH14	25.5
	F 1033	689	689	497	44LH14	26.6
	F 1099	733	720	480	40LH14	29.8
	F 1137	758	758	597	48LH15	28.9
	F 1201	801	801	577	44LH15	30.8
	F 1311	874	874	688	48LH16	31.7
	F 1386	924	924	664	44LH16	35.5
	F 1473	982	982	769	48LH17	39.3
	F 1488	992	992	710	44LH17	40.4
60	F 211	141	103	69	30K7	8.8
	F 234	156	112	75	30K8	9.5
	F 253	169	121	81	30K9	10.3
	F 301	201	144	96	30K10	11.7
	F 363	242	187	125	32LH06	13.1
	F 417	278	273	182	40LH08	13.2
	F 453	302	264	176	36LH08	14.9
	F 502	335	335	241	44LH09	15.0
	F 555	370	370	265	44LH10	16.5
	F 601	401	401	287	44LH11	17.7
	F 603	402	393	262	40LH10	18.4

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
60 (cont.)	F 658	439	424	283	40LH11	20.2
	F 688	459	459	358	48LH12	19.4
	F 744	496	496	354	44LH12	20.6
	F 825	550	550	427	48LH13	21.3
	F 882	588	588	419	44LH13	24.2
	F 945	630	607	405	40LH13	26.5
	F 973	649	649	504	48LH14	26.0
	F 1015	677	677	480	44LH14	27.4
	F 1081	721	696	464	40LH14	30.4
	F 1119	746	746	577	48LH15	28.9
	F 1182	788	788	558	44LH15	30.6
	F 1209	806	775	517	40LH15	34.2
	F 1290	860	860	665	48LH16	33.4
	F 1362	908	908	642	44LH16	35.3
	F 1462	975	975	686	44LH17	40.4
61	F 351	234	178	119	32LH06	13.2
	F 399	266	229	153	36LH07	14.2
	F 411	274	264	176	40LH08	13.9
	F 439	293	252	168	36LH08	14.9
	F 495	330	330	256	48LH10	14.9
	F 537	358	358	275	48LH11	15.7
	F 546	364	364	257	44LH10	16.7
	F 591	394	394	277	44LH11	17.9
	F 594	396	379	253	40LH10	19.1
	F 648	432	411	274	40LH11	20.2
	F 678	452	452	346	48LH12	19.4
	F 732	488	488	342	44LH12	20.6
	F 811	541	541	413	48LH13	21.8
	F 868	579	579	405	44LH13	24.8
	F 957	638	638	487	48LH14	26.1
	F 999	666	666	464	44LH14	27.5
	F 1099	733	733	558	48LH15	28.6
	F 1162	775	775	540	44LH15	31.9
	F 1189	793	750	500	40LH15	34.5
	F 1269	846	846	643	48LH16	34.1
	F 1339	893	893	621	44LH16	39.1
	F 1438	959	959	664	44LH17	40.6
62	F 340	227	171	114	32LH06	13.2
	F 387	258	219	146	36LH07	14.3
	F 403	269	255	170	40LH08	14.0
	F 426	284	240	160	36LH08	15.3
	F 486	324	324	247	48LH10	14.8
	F 528	352	352	267	48LH11	15.8
	F 529	353	333	222	40LH09	17.5
	F 537	358	358	248	44LH10	17.5
	F 582	388	388	268	44LH11	18.0
	F 583	389	367	245	40LH10	19.0
	F 601	401	337	225	36LH10	20.5
	F 666	444	444	335	48LH12	19.2
	F 720	480	480	331	44LH12	20.6
	F 798	532	532	400	48LH13	21.9

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
62 (cont.)	F 853	569	569	392	44LH13	24.9
	F 942	628	628	472	48LH14	26.3
	F 966	644	644	522	52DLH13	26.2
	F 982	655	655	450	44LH14	28.1
	F 1083	722	722	540	48LH15	28.4
	F 1104	736	736	584	52DLH14	29.4
	F 1143	762	762	522	44LH15	32.3
	F 1240	827	827	658	52DLH15	32.1
	F 1248	832	832	623	48LH16	34.0
	F 1338	892	892	732	52DLH16	35.1
	F 1401	934	934	696	48LH17	39.3
	F 1416	944	944	642	44LH17	40.6
	F 1539	1026	1026	835	52DLH17	41.0
63	F 330	220	162	108	32LH06	13.2
	F 376	251	210	140	36LH07	14.3
	F 414	276	229	153	36LH08	15.2
	F 478	319	319	239	48LH10	15.2
	F 519	346	346	258	48LH11	15.5
	F 522	348	322	215	40LH09	17.3
	F 529	353	353	240	44LH10	17.4
	F 574	383	355	237	40LH10	19.0
	F 583	389	322	215	36LH10	20.5
	F 655	437	437	324	48LH12	19.2
	F 702	468	468	383	52DLH11	19.7
	F 708	472	472	321	44LH12	21.5
	F 784	523	523	387	48LH13	21.7
	F 840	560	560	380	44LH13	24.8
	F 927	618	618	457	48LH14	26.2
	F 949	633	633	506	52DLH13	26.2
	F 967	645	645	435	44LH14	29.5
	F 1065	710	710	523	48LH15	29.3
	F 1086	724	724	565	52DLH14	29.6
	F 1125	750	750	506	44LH15	32.4
	F 1228	819	819	603	48LH16	34.0
	F 1317	878	878	708	52DLH16	35.3
	F 1378	919	919	674	48LH17	39.4
	F 1393	929	929	622	44LH17	41.6
	F 1515	1010	1010	809	52DLH17	40.6
64	F 321	214	156	104	32LH06	13.2
	F 366	244	201	134	36LH07	14.3
	F 402	268	219	146	36LH08	15.0
	F 471	314	314	212	44LH09	16.5
	F 513	342	313	209	40LH09	17.4
	F 520	347	347	233	44LH10	17.4
	F 565	377	345	230	40LH10	19.0
	F 567	378	309	206	36LH10	20.3
	F 645	430	430	314	48LH12	19.3
	F 690	460	460	371	52DLH11	19.9
	F 697	465	465	311	44LH12	21.4
	F 771	514	514	405	52DLH12	21.4
	F 772	515	515	375	48LH13	22.9

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
64 (cont.)	F 826	551	551	368	44LH13	24.8
	F 912	608	608	443	48LH14	26.3
	F 936	624	624	490	52DLH13	26.6
	F 952	635	633	422	44LH14	29.6
	F 1048	699	699	507	48LH15	29.8
	F 1069	713	713	547	52DLH14	29.5
	F 1107	738	735	490	44LH15	32.3
	F 1209	806	806	584	48LH16	34.0
	F 1296	864	864	686	52DLH16	35.2
	F 1357	905	905	653	48LH17	40.4
	F 1371	914	903	602	44LH17	42.1
	F 1491	994	994	783	52DLH17	41.7
65	F 312	208	148	99	32LH06	13.2
	F 355	237	192	128	36LH07	14.3
	F 390	260	210	140	36LH08	14.9
	F 463	309	307	205	44LH09	16.4
	F 513	342	339	226	44LH10	17.3
	F 555	370	366	244	44LH11	18.4
	F 556	371	334	223	40LH10	19.7
	F 636	424	424	305	48LH12	19.8
	F 679	453	453	360	52DLH11	19.9
	F 687	458	451	301	44LH12	22.0
	F 759	506	506	392	52DLH12	21.6
	F 760	507	507	364	48LH13	22.7
	F 814	543	535	357	44LH13	25.5
	F 921	614	614	475	52DLH13	26.6
	F 937	625	613	409	44LH14	29.5
	F 1032	688	688	491	48LH15	29.7
	F 1053	702	702	531	52DLH14	29.2
	F 1090	727	712	475	44LH15	32.2
	F 1189	793	793	566	48LH16	34.3
	F 1275	850	850	665	52DLH16	39.4
	F 1336	891	891	633	48LH17	40.3
	F 1350	900	876	584	44LH17	42.0
	F 1468	979	979	759	52DLH17	41.9
66	F 345	230	183	122	36LH07	14.4
	F 379	253	201	134	36LH08	15.0
	F 381	254	225	150	40LH08	14.5
	F 457	305	298	199	44LH09	16.4
	F 498	332	294	196	40LH09	17.8
	F 505	337	328	219	44LH10	17.9
	F 546	364	355	237	44LH11	18.4
	F 550	367	324	216	40LH10	20.5
	F 598	399	351	234	40LH11	21.0
	F 610	407	407	319	52DLH10	19.5
	F 625	417	417	295	48LH12	20.2
	F 669	446	446	349	52DLH11	20.4
	F 676	451	438	292	44LH12	22.1
	F 747	498	498	380	52DLH12	22.2
	F 748	499	499	353	48LH13	24.3
	F 801	534	519	346	44LH13	26.8

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
66 (cont.)	F 907	605	605	461	52DLH13	26.7
	F 922	615	594	396	44LH14	29.5
	F 1017	678	678	476	48LH15	30.1
	F 1036	691	691	515	52DLH14	29.6
	F 1074	716	691	461	44LH15	34.2
	F 1165	777	777	580	52DLH15	34.2
	F 1171	781	781	549	48LH16	36.0
	F 1257	838	838	645	52DLH16	39.1
	F 1315	877	877	614	48LH17	40.4
	F 1329	886	849	566	44LH17	42.0
	F 1446	964	964	736	52DLH17	41.8
67	F 336	224	175	117	36LH07	14.3
	F 369	246	192	128	36LH08	14.9
	F 370	247	216	144	40LH08	14.8
	F 450	300	289	193	44LH09	16.5
	F 484	323	282	188	40LH09	17.8
	F 487	325	325	228	48LH11	16.4
	F 496	331	318	212	44LH10	17.8
	F 537	358	345	230	44LH11	19.0
	F 600	400	400	309	52DLH10	19.4
	F 616	411	411	287	48LH12	20.1
	F 658	439	439	338	52DLH11	20.4
	F 666	444	424	283	44LH12	21.9
	F 735	490	490	369	52DLH12	22.1
	F 738	492	492	342	48LH13	24.2
	F 789	526	504	336	44LH13	26.8
	F 892	595	595	447	52DLH13	26.7
	F 909	606	577	385	44LH14	29.6
	F 994	663	663	534	56DLH14	29.3
	F 1021	681	681	499	52DLH14	31.4
	F 1057	705	670	447	44LH15	34.5
	F 1147	765	765	563	52DLH15	34.2
	F 1153	769	769	533	48LH16	35.6
	F 1225	817	817	672	56DLH16	35.3
	F 1237	825	825	626	52DLH16	39.1
	F 1296	864	864	596	48LH17	40.4
	F 1309	873	823	549	44LH17	42.0
	F 1423	949	949	715	52DLH17	41.7
68	F 327	218	168	112	36LH07	14.2
	F 358	239	184	123	36LH08	15.0
	F 361	241	207	138	40LH08	14.7
	F 444	296	280	187	44LH09	16.3
	F 472	315	270	180	40LH09	18.4
	F 490	327	309	206	44LH10	17.7
	F 529	353	334	223	44LH11	19.3
	F 592	395	395	300	52DLH10	19.4
	F 607	405	405	278	48LH12	20.2
	F 649	433	433	328	52DLH11	20.3
	F 655	437	412	275	44LH12	22.0
	F 724	483	483	358	52DLH12	22.6
	F 727	485	485	332	48LH13	24.2

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
68 (cont.)	F 778	519	489	326	44LH13	26.7
	F 880	587	587	434	52DLH13	26.5
	F 895	597	559	373	44LH14	29.6
	F 979	653	653	519	56DLH14	29.6
	F 987	658	658	449	48LH15	31.4
	F 1006	671	671	485	52DLH14	31.3
	F 1042	695	651	434	44LH15	34.4
	F 1131	754	754	546	52DLH15	34.5
	F 1137	758	758	517	48LH16	35.4
	F 1207	805	805	652	56DLH16	39.1
	F 1276	851	851	578	48LH17	40.4
	F 1290	860	799	533	44LH17	42.4
	F 1402	935	935	694	52DLH17	41.7
69	F 318	212	160	107	36LH07	14.4
	F 349	233	177	118	36LH08	15.1
	F 351	234	198	132	40LH08	14.8
	F 436	291	273	182	44LH09	16.1
	F 459	306	259	173	40LH09	18.2
	F 483	322	300	200	44LH10	17.9
	F 522	348	324	216	44LH11	19.1
	F 598	399	399	270	48LH12	20.1
	F 640	427	427	319	52DLH11	20.9
	F 646	431	400	267	44LH12	22.0
	F 705	470	470	372	56DLH12	21.6
	F 714	476	476	348	52DLH12	23.2
	F 717	478	478	322	48LH13	24.2
	F 766	511	475	317	44LH13	26.8
	F 846	564	564	380	48LH14	27.0
	F 853	569	569	451	56DLH13	26.9
	F 867	578	578	421	52DLH13	27.6
	F 882	588	544	363	44LH14	29.8
	F 966	644	644	504	56DLH14	29.7
	F 991	661	661	471	52DLH14	31.2
	F 1026	684	631	421	44LH15	34.5
	F 1114	743	743	530	52DLH15	34.6
	F 1120	747	747	502	48LH16	35.4
	F 1191	794	794	633	56DLH16	39.2
	F 1201	801	801	590	52DLH16	39.8
	F 1258	839	839	562	48LH17	40.7
	F 1372	915	915	720	56DLH17	41.2
	F 1383	922	922	674	52DLH17	42.7
70	F 310	207	154	103	36LH07	14.4
	F 342	228	190	127	40LH08	14.7
	F 430	287	287	194	48LH10	16.6
	F 447	298	249	166	40LH09	18.1
	F 466	311	311	209	48LH11	16.9
	F 475	317	292	195	44LH10	18.3
	F 493	329	274	183	40LH10	19.0
	F 514	343	315	210	44LH11	19.8
	F 589	393	393	262	48LH12	20.0
	F 631	421	421	310	52DLH11	20.6

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
70 (cont.)	F 637	425	388	259	44LH12	22.2
	F 703	469	469	338	52DLH12	23.1
	F 706	471	469	313	48LH13	24.7
	F 756	504	460	307	44LH13	26.8
	F 832	555	555	370	48LH14	27.0
	F 841	561	561	438	56DLH13	26.8
	F 855	570	570	409	52DLH13	28.3
	F 870	580	528	352	44LH14	30.5
	F 951	634	634	489	56DLH14	29.3
	F 978	652	652	457	52DLH14	31.5
	F 1012	675	613	409	44LH15	34.7
	F 1098	732	732	515	52DLH15	34.3
	F 1104	736	732	488	48LH16	39.3
	F 1183	789	789	573	52DLH16	39.7
	F 1240	827	819	546	48LH17	42.3
	F 1363	909	909	654	52DLH17	42.7
71	F 301	201	148	99	36LH07	14.3
	F 331	221	163	109	36LH08	15.0
	F 333	222	183	122	40LH08	14.6
	F 424	283	258	172	44LH09	17.6
	F 436	291	240	160	40LH09	18.1
	F 460	307	304	203	48LH11	16.9
	F 481	321	264	176	40LH10	19.4
	F 507	338	306	204	44LH11	19.9
	F 582	388	382	255	48LH12	20.4
	F 597	398	398	323	56DLH11	19.9
	F 622	415	415	301	52DLH11	21.7
	F 685	457	457	351	56DLH12	21.9
	F 696	464	457	305	48LH13	24.7
	F 745	497	448	299	44LH13	26.9
	F 750	500	406	271	40LH13	29.0
	F 829	553	553	426	56DLH13	27.0
	F 843	562	562	398	52DLH13	28.5
	F 858	572	513	342	44LH14	31.3
	F 891	594	594	483	60DLH14	29.0
	F 937	625	625	476	56DLH14	29.8
	F 945	630	616	411	48LH15	32.3
	F 963	642	642	444	52DLH14	31.9
	F 1047	698	698	570	60DLH15	32.8
	F 1072	715	715	537	56DLH15	34.0
	F 1083	722	722	501	52DLH15	35.1
	F 1156	771	771	598	56DLH16	39.1
	F 1167	778	778	557	52DLH16	39.7
	F 1222	815	795	530	48LH17	42.3
	F 1344	896	896	636	52DLH17	42.5
	F 1525	1017	1017	818	60DLH18	47.1
72	F 294	196	142	95	36LH07	14.3
	F 322	215	156	104	36LH08	14.9
	F 325	217	175	117	40LH08	14.6
	F 418	279	250	167	44LH09	17.5
	F 424	283	229	153	40LH09	18.5

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
72 (cont.)	F 454	303	295	197	48LH11	17.4
	F 462	308	276	184	44LH10	18.9
	F 499	333	298	199	44LH11	19.7
	F 573	382	372	248	48LH12	20.5
	F 588	392	392	314	56DLH11	19.9
	F 613	409	409	293	52DLH11	22.2
	F 619	413	367	245	44LH12	24.0
	F 687	458	444	296	48LH13	24.7
	F 735	490	436	291	44LH13	27.8
	F 790	527	527	441	60DLH13	26.3
	F 819	546	546	414	56DLH13	27.0
	F 831	554	554	387	52DLH13	29.5
	F 925	617	617	462	56DLH14	29.5
	F 931	621	600	400	48LH15	32.3
	F 949	633	633	432	52DLH14	32.2
	F 984	656	580	387	44LH15	35.6
	F 1057	705	705	522	56DLH15	35.1
	F 1068	712	712	487	52DLH15	36.1
	F 1140	760	760	581	56DLH16	39.1
	F 1150	767	767	542	52DLH16	39.5
	F 1206	804	774	516	48LH17	42.3
	F 1303	869	869	704	60DLH17	41.1
	F 1314	876	876	661	56DLH17	42.3
	F 1324	883	883	618	52DLH17	43.5
	F 1504	1003	1003	796	60DLH18	47.0
73	F 286	191	136	91	36LH07	14.2
	F 313	209	150	100	36LH08	14.9
	F 316	211	168	112	40LH08	14.9
	F 412	275	267	178	48LH10	16.3
	F 414	276	220	147	40LH09	18.4
	F 448	299	288	192	48LH11	17.5
	F 456	304	268	179	44LH10	19.4
	F 493	329	289	193	44LH11	19.7
	F 565	377	361	241	48LH12	20.5
	F 580	387	387	305	56DLH11	19.9
	F 604	403	403	285	52DLH11	21.9
	F 610	407	357	238	44LH12	23.9
	F 676	451	432	288	48LH13	24.6
	F 724	483	424	283	44LH13	27.8
	F 780	520	520	429	60DLH13	26.2
	F 807	538	538	403	56DLH13	27.0
	F 819	546	546	376	52DLH13	29.3
	F 867	578	578	457	60DLH14	28.9
	F 912	608	608	450	56DLH14	29.4
	F 918	612	583	389	48LH15	32.3
	F 937	625	625	420	52DLH14	32.8
	F 1017	678	678	539	60DLH15	33.7
	F 1042	695	695	508	56DLH15	34.9
	F 1053	702	702	474	52DLH15	35.6
	F 1125	750	750	565	56DLH16	39.0
	F 1135	757	757	527	52DLH16	40.5

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
73 (cont.)	F 1189	793	751	501	48LH17	42.3
	F 1285	857	857	685	60DLH17	41.2
	F 1296	864	864	643	56DLH17	42.4
	F 1306	871	871	601	52DLH17	43.7
	F 1483	989	989	774	60DLH18	47.1
74	F 309	206	162	108	40LH08	14.8
	F 406	271	259	173	48LH10	16.4
	F 408	272	237	158	44LH09	18.0
	F 442	295	280	187	48LH11	17.7
	F 450	300	261	174	44LH10	19.4
	F 487	325	282	188	44LH11	19.7
	F 543	362	362	253	52DLH10	20.4
	F 558	372	352	235	48LH12	21.5
	F 597	398	398	277	52DLH11	21.9
	F 603	402	348	232	44LH12	23.9
	F 667	445	420	280	48LH13	24.5
	F 715	477	412	275	44LH13	27.8
	F 769	513	513	418	60DLH13	26.1
	F 796	531	531	392	56DLH13	27.8
	F 808	539	539	366	52DLH13	28.9
	F 855	570	570	444	60DLH14	28.8
	F 906	604	568	379	48LH15	32.4
	F 924	616	613	409	52DLH14	32.6
	F 1027	685	685	494	56DLH15	34.9
	F 1038	692	691	461	52DLH15	35.7
	F 1044	696	654	436	48LH16	40.3
	F 1104	736	736	586	60DLH16	39.7
	F 1120	747	747	513	52DLH16	40.5
	F 1173	782	732	488	48LH17	42.3
	F 1269	846	846	667	60DLH17	41.0
	F 1278	852	852	626	56DLH17	42.1
	F 1288	859	859	585	52DLH17	46.1
	F 1464	976	976	753	60DLH18	47.2
75	F 301	201	156	104	40LH08	14.7
	F 397	265	228	152	44LH09	17.6
	F 402	268	253	169	48LH10	16.4
	F 436	291	273	182	48LH11	17.5
	F 439	293	252	168	44LH10	19.3
	F 475	317	271	181	44LH11	19.7
	F 537	358	358	247	52DLH10	20.3
	F 550	367	342	228	48LH12	21.4
	F 588	392	392	270	52DLH11	21.8
	F 589	393	336	224	44LH12	23.9
	F 624	416	416	336	60DLH12	22.4
	F 658	439	409	273	48LH13	25.1
	F 699	466	397	265	44LH13	27.8
	F 759	506	506	407	60DLH13	26.3
	F 786	524	524	382	56DLH13	27.8
	F 843	562	562	433	60DLH14	29.0
	F 894	596	552	368	48LH15	32.3
	F 912	608	597	398	52DLH14	32.7

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
75 (cont.)	F 990	660	660	511	60DLH15	33.7
	F 1014	676	676	481	56DLH15	34.8
	F 1030	687	637	425	48LH16	40.3
	F 1089	726	726	571	60DLH16	39.8
	F 1095	730	730	536	56DLH16	39.9
	F 1105	737	737	499	52DLH16	41.0
	F 1156	771	712	475	48LH17	42.6
	F 1251	834	834	649	60DLH17	42.2
	F 1261	841	841	609	56DLH17	43.1
	F 1272	848	848	570	52DLH17	46.5
	F 1444	963	963	733	60DLH18	47.3
76	F 294	196	150	100	40LH08	14.6
	F 388	259	219	146	44LH09	17.1
	F 396	264	246	164	48LH10	16.9
	F 430	287	265	177	48LH11	17.5
	F 465	310	262	175	44LH11	20.1
	F 529	353	353	240	52DLH10	20.3
	F 543	362	333	222	48LH12	21.4
	F 580	387	387	263	52DLH11	21.8
	F 616	411	411	328	60DLH12	22.3
	F 649	433	399	266	48LH13	25.0
	F 681	454	381	254	44LH13	27.5
	F 750	500	500	396	60DLH13	26.6
	F 766	511	469	313	48LH14	29.5
	F 775	517	517	372	56DLH13	28.8
	F 787	525	520	347	52DLH13	29.9
	F 832	555	555	421	60DLH14	29.9
	F 900	600	582	388	52DLH14	32.7
	F 948	632	632	528	64DLH15	32.2
	F 978	652	652	497	60DLH15	33.6
	F 1000	667	667	468	56DLH15	35.5
	F 1017	678	621	414	48LH16	40.3
	F 1074	716	716	556	60DLH16	39.8
	F 1080	720	720	521	56DLH16	39.9
	F 1090	727	727	486	52DLH16	41.0
	F 1228	819	819	672	64DLH17	41.2
	F 1234	823	823	632	60DLH17	42.3
	F 1245	830	830	593	56DLH17	43.0
	F 1255	837	832	555	52DLH17	46.4
	F 1425	950	950	714	60DLH18	47.2
77	F 288	192	145	97	40LH08	14.6
	F 375	250	189	126	40LH09	18.1
	F 379	253	211	141	44LH09	18.0
	F 391	261	240	160	48LH10	17.1
	F 424	283	258	172	48LH11	18.2
	F 453	302	252	168	44LH11	20.0
	F 522	348	348	234	52DLH10	20.3
	F 535	357	325	217	48LH12	21.5
	F 573	382	382	256	52DLH11	21.8
	F 609	406	406	319	60DLH12	22.1
	F 640	427	418	279	52DLH12	24.7

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
77 (cont.)	F 642	428	388	259	48LH13	26.0
	F 666	444	369	246	44LH13	27.6
	F 712	475	475	409	64DLH13	26.3
	F 739	493	493	386	60DLH13	27.3
	F 757	505	457	305	48LH14	29.9
	F 777	518	507	338	52DLH13	29.8
	F 822	548	548	410	60DLH14	29.8
	F 888	592	567	378	52DLH14	32.7
	F 934	623	623	514	64DLH15	32.1
	F 964	643	643	484	60DLH15	34.0
	F 988	659	659	456	56DLH15	35.4
	F 997	665	637	425	52DLH15	39.7
	F 1053	702	702	576	64DLH16	38.7
	F 1060	707	707	541	60DLH16	39.6
	F 1066	711	711	508	56DLH16	39.8
	F 1075	717	709	473	52DLH16	41.0
	F 1213	809	809	655	64DLH17	41.2
	F 1219	813	813	615	60DLH17	42.0
	F 1228	819	819	578	56DLH17	44.0
	F 1239	826	810	540	52DLH17	46.4
	F 1401	934	934	741	64DLH18	47.6
	F 1407	938	938	695	60DLH18	50.7
78	F 280	187	139	93	40LH08	14.6
	F 366	244	183	122	40LH09	18.0
	F 370	247	204	136	44LH09	18.0
	F 385	257	234	156	48LH10	17.0
	F 418	279	252	168	48LH11	18.1
	F 442	295	243	162	44LH11	20.1
	F 516	344	342	228	52DLH10	20.2
	F 529	353	316	211	48LH12	22.1
	F 543	362	362	267	56DLH11	20.9
	F 565	377	373	249	52DLH11	22.2
	F 600	400	400	311	60DLH12	22.0
	F 631	421	408	272	52DLH12	24.6
	F 633	422	378	252	48LH13	26.6
	F 649	433	354	236	44LH13	27.7
	F 703	469	469	398	64DLH13	26.0
	F 730	487	487	376	60DLH13	27.3
	F 747	498	445	297	48LH14	29.3
	F 766	511	493	329	52DLH13	29.8
	F 811	541	541	400	60DLH14	29.9
	F 853	569	569	394	56DLH14	32.1
	F 922	615	615	501	64DLH15	31.7
	F 952	635	635	472	60DLH15	33.9
	F 975	650	650	444	56DLH15	35.9
	F 1047	698	698	528	60DLH16	39.5
	F 1053	702	702	495	56DLH16	39.9
	F 1062	708	691	461	52DLH16	42.0
	F 1203	802	802	600	60DLH17	42.0
	F 1213	809	809	563	56DLH17	43.9
	F 1222	815	789	526	52DLH17	49.8

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
78 (cont.)	F 1383	922	922	722	64DLH18	47.5
	F 1389	926	926	677	60DLH18	50.8
79	F 274	183	135	90	40LH08	14.5
	F 363	242	196	131	44LH09	17.7
	F 381	254	228	152	48LH10	17.4
	F 414	276	246	164	48LH11	18.2
	F 433	289	235	157	44LH11	20.5
	F 508	339	333	222	52DLH10	20.6
	F 535	357	357	260	56DLH11	20.7
	F 558	372	364	243	52DLH11	22.4
	F 571	381	381	319	64DLH12	22.0
	F 624	416	397	265	52DLH12	24.9
	F 625	417	369	246	48LH13	26.6
	F 634	423	342	228	44LH13	27.8
	F 694	463	463	388	64DLH13	26.7
	F 720	480	480	366	60DLH13	27.8
	F 738	492	435	290	48LH14	29.2
	F 757	505	481	321	52DLH13	29.8
	F 795	530	530	415	64DLH14	28.9
	F 801	534	534	390	60DLH14	29.8
	F 843	562	562	384	56DLH14	32.0
	F 865	577	538	359	52DLH14	34.0
	F 912	608	608	489	64DLH15	33.9
	F 940	627	627	460	60DLH15	34.8
	F 963	642	642	433	56DLH15	35.8
	F 1033	689	689	514	60DLH16	39.5
	F 1039	693	693	482	56DLH16	39.9
	F 1048	699	675	450	52DLH16	42.0
	F 1188	792	792	585	60DLH17	41.9
	F 1197	798	798	549	56DLH17	43.6
	F 1207	805	769	513	52DLH17	49.7
	F 1365	910	910	704	64DLH18	47.6
	F 1371	914	914	660	60DLH18	50.9
80	F 267	178	129	86	40LH08	15.5
	F 354	236	190	127	44LH09	17.7
	F 376	251	222	148	48LH10	17.4
	F 408	272	240	160	48LH11	18.2
	F 423	282	226	151	44LH11	20.8
	F 502	335	325	217	52DLH10	21.6
	F 516	344	301	201	48LH12	22.1
	F 552	368	355	237	52DLH11	22.4
	F 615	410	387	258	52DLH12	24.8
	F 618	412	360	240	48LH13	26.7
	F 685	457	457	379	64DLH13	27.0
	F 711	474	474	357	60DLH13	27.6
	F 729	486	424	283	48LH14	30.3
	F 747	498	469	313	52DLH13	29.8
	F 784	523	523	405	64DLH14	28.8
	F 790	527	527	380	60DLH14	29.9
	F 832	555	555	374	56DLH14	31.9
	F 855	570	525	350	52DLH14	33.9

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
80 (cont.)	F 900	600	600	476	64DLH15	34.3
	F 928	619	619	449	60DLH15	35.6
	F 951	634	633	422	56DLH15	39.4
	F 960	640	591	394	52DLH15	40.6
	F 1012	675	675	533	64DLH16	40.0
	F 1020	680	680	501	60DLH16	40.4
	F 1035	690	657	438	52DLH16	42.0
	F 1173	782	782	570	60DLH17	42.0
	F 1182	788	788	535	56DLH17	43.6
	F 1192	795	750	500	52DLH17	49.7
	F 1348	899	899	686	64DLH18	47.5
	F 1353	902	902	644	60DLH18	50.8
81	F 261	174	124	83	40LH08	15.4
	F 346	231	183	122	44LH09	17.6
	F 372	248	217	145	48LH10	17.4
	F 381	254	201	134	44LH10	19.3
	F 403	269	234	156	48LH11	18.8
	F 414	276	219	146	44LH11	20.8
	F 496	331	316	211	52DLH10	21.6
	F 510	340	294	196	48LH12	22.1
	F 544	363	346	231	52DLH11	22.6
	F 558	372	372	304	64DLH12	22.5
	F 607	405	378	252	52DLH12	24.9
	F 610	407	351	234	48LH13	26.7
	F 676	451	451	369	64DLH13	27.0
	F 703	469	469	348	60DLH13	27.6
	F 738	492	457	305	52DLH13	29.9
	F 775	517	517	395	64DLH14	29.4
	F 781	521	521	371	60DLH14	30.2
	F 822	548	547	365	56DLH14	32.8
	F 828	552	474	316	48LH15	34.6
	F 840	560	560	469	68DLH15	31.9
	F 844	563	511	341	52DLH14	34.3
	F 889	593	593	465	64DLH15	34.3
	F 916	611	611	438	60DLH15	35.6
	F 948	632	576	384	52DLH15	40.6
	F 1000	667	667	520	64DLH16	40.0
	F 1008	672	672	489	60DLH16	40.1
	F 1014	676	676	459	56DLH16	41.4
	F 1023	682	642	428	52DLH16	42.1
	F 1123	749	749	626	68DLH17	41.0
	F 1158	772	772	556	60DLH17	43.0
	F 1167	778	778	522	56DLH17	46.2
	F 1177	785	732	488	52DLH17	49.6
	F 1332	888	888	669	64DLH18	47.5
	F 1336	891	891	628	60DLH18	50.6
	F 1497	998	998	803	68DLH19	55.4
82	F 339	226	177	118	44LH09	17.5
	F 369	246	211	141	48LH10	17.4
	F 373	249	195	130	44LH10	19.2
	F 399	266	228	152	48LH11	18.8

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
82 (cont.)	F 403	269	210	140	44LH11	20.3
	F 504	336	286	191	48LH12	22.1
	F 516	344	344	242	56DLH11	22.2
	F 538	359	337	225	52DLH11	23.9
	F 550	367	367	296	64DLH12	22.4
	F 571	381	381	281	60DLH12	24.1
	F 592	395	394	263	56DLH12	24.6
	F 603	402	342	228	48LH13	26.6
	F 669	446	446	360	64DLH13	26.9
	F 694	463	463	340	60DLH13	27.5
	F 729	486	447	298	52DLH13	30.0
	F 766	511	511	385	64DLH14	30.1
	F 771	514	514	362	60DLH14	31.2
	F 811	541	534	356	56DLH14	32.7
	F 829	553	553	457	68DLH15	31.8
	F 834	556	499	333	52DLH14	34.9
	F 877	585	585	453	64DLH15	34.1
	F 906	604	604	427	60DLH15	35.6
	F 927	618	603	402	56DLH15	39.8
	F 936	624	562	375	52DLH15	40.7
	F 988	659	659	508	64DLH16	39.7
	F 996	664	664	477	60DLH16	40.2
	F 1000	667	667	448	56DLH16	41.3
	F 1009	673	625	417	52DLH16	42.1
	F 1138	759	759	577	64DLH17	42.2
	F 1144	763	763	542	60DLH17	44.2
	F 1153	769	763	509	56DLH17	46.3
	F 1162	775	714	476	52DLH17	49.4
	F 1315	877	877	653	64DLH18	47.6
	F 1320	880	880	613	60DLH18	52.0
	F 1479	986	986	783	68DLH19	55.2
83	F 331	221	171	114	44LH09	17.5
	F 361	241	204	136	48LH10	17.4
	F 364	243	187	125	44LH10	18.7
	F 390	260	220	147	48LH11	18.8
	F 396	264	204	136	44LH11	20.3
	F 493	329	277	185	48LH12	22.0
	F 510	340	340	236	56DLH11	22.2
	F 531	354	330	220	52DLH11	23.7
	F 544	363	363	289	64DLH12	22.3
	F 586	391	385	257	56DLH12	24.8
	F 589	393	331	221	48LH13	26.6
	F 594	396	360	240	52DLH12	26.4
	F 660	440	440	352	64DLH13	26.6
	F 685	457	457	332	60DLH13	28.1
	F 720	480	436	291	52DLH13	29.9
	F 756	504	504	376	64DLH14	30.0
	F 762	508	508	353	60DLH14	30.8
	F 802	535	522	348	56DLH14	32.9
	F 820	547	547	446	68DLH15	31.9
	F 867	578	578	442	64DLH15	34.2

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
83 (cont.)	F 894	596	596	417	60DLH15	35.2
	F 916	611	588	392	56DLH15	39.7
	F 925	617	549	366	52DLH15	40.5
	F 976	651	651	495	64DLH16	39.7
	F 984	656	656	466	60DLH16	40.0
	F 988	659	655	437	56DLH16	41.2
	F 997	665	610	407	52DLH16	42.2
	F 1125	750	750	563	64DLH17	42.3
	F 1131	754	754	529	60DLH17	44.1
	F 1140	760	745	497	56DLH17	46.5
	F 1149	766	697	465	52DLH17	49.7
	F 1269	846	846	674	68DLH18	47.8
	F 1299	866	866	637	64DLH18	51.0
	F 1305	870	870	598	60DLH18	51.8
	F 1461	974	974	765	68DLH19	55.1
84	F 324	216	165	110	44LH09	17.8
	F 354	236	198	132	48LH10	17.8
	F 357	238	181	121	44LH10	19.4
	F 382	255	213	142	48LH11	19.1
	F 387	258	196	131	44LH11	21.2
	F 483	322	268	179	48LH12	22.0
	F 504	336	336	230	56DLH11	22.2
	F 525	350	322	215	52DLH11	23.6
	F 538	359	359	282	64DLH12	22.9
	F 579	386	376	251	56DLH12	24.8
	F 586	391	351	234	52DLH12	26.8
	F 627	418	418	362	68DLH13	26.7
	F 652	435	435	343	64DLH13	27.8
	F 700	467	456	304	56DLH13	29.8
	F 711	474	426	284	52DLH13	31.3
	F 747	498	498	367	64DLH14	29.9
	F 753	502	502	345	60DLH14	30.7
	F 792	528	508	339	56DLH14	32.9
	F 810	540	540	436	68DLH15	31.9
	F 856	571	571	432	64DLH15	34.1
	F 883	589	589	407	60DLH15	35.8
	F 964	643	643	484	64DLH16	39.8
	F 972	648	648	455	60DLH16	40.0
	F 976	651	640	427	56DLH16	41.2
	F 985	657	595	397	52DLH16	42.2
	F 1111	741	741	550	64DLH17	42.1
	F 1117	745	745	517	60DLH17	44.1
	F 1135	757	681	454	52DLH17	50.0
	F 1252	835	835	658	68DLH18	47.7
	F 1284	856	856	622	64DLH18	50.8
	F 1288	859	859	584	60DLH18	51.7
	F 1443	962	962	746	68DLH19	55.2
85	F 316	211	159	106	44LH09	17.8
	F 346	231	190	127	48LH10	17.9
	F 349	233	175	117	44LH10	19.4
	F 373	249	205	137	48LH11	19.1

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
85 (cont.)	F 378	252	190	127	44LH11	21.0
	F 472	315	288	192	52DLH10	21.6
	F 498	332	332	225	56DLH11	22.1
	F 519	346	315	210	52DLH11	24.3
	F 531	354	354	276	64DLH12	22.9
	F 571	381	367	245	56DLH12	25.0
	F 579	386	343	229	52DLH12	26.8
	F 619	413	413	353	68DLH13	26.6
	F 645	430	430	335	64DLH13	27.7
	F 693	462	445	297	56DLH13	29.7
	F 744	496	496	336	60DLH14	30.8
	F 783	522	496	331	56DLH14	32.7
	F 801	534	534	425	68DLH15	32.1
	F 847	565	565	422	64DLH15	34.0
	F 873	582	582	397	60DLH15	35.4
	F 952	635	635	472	64DLH16	39.8
	F 975	650	582	388	52DLH16	42.1
	F 1098	732	732	537	64DLH17	42.2
	F 1104	736	736	505	60DLH17	44.2
	F 1113	742	711	474	56DLH17	49.6
	F 1122	748	664	443	52DLH17	50.1
	F 1212	808	808	678	72DLH18	46.7
	F 1239	826	826	642	68DLH18	47.7
	F 1269	846	846	607	64DLH18	50.7
	F 1273	849	849	570	60DLH18	51.7
	F 1426	951	951	729	68DLH19	55.1
86	F 310	207	154	103	44LH09	17.9
	F 339	226	184	123	48LH10	17.8
	F 342	228	169	113	44LH10	19.3
	F 366	244	199	133	48LH11	19.0
	F 370	247	184	123	44LH11	20.9
	F 468	312	280	187	52DLH10	22.1
	F 492	328	328	220	56DLH11	22.0
	F 513	342	307	205	52DLH11	24.4
	F 525	350	350	269	64DLH12	22.9
	F 544	363	363	256	60DLH12	24.8
	F 565	377	358	239	56DLH12	25.3
	F 573	382	334	223	52DLH12	26.6
	F 613	409	409	345	68DLH13	26.6
	F 637	425	425	327	64DLH13	27.4
	F 684	456	435	290	56DLH13	29.7
	F 694	463	406	271	52DLH13	32.1
	F 705	470	470	371	68DLH14	29.5
	F 730	487	487	350	64DLH14	30.3
	F 735	490	490	329	60DLH14	31.9
	F 792	528	528	416	68DLH15	32.2
	F 795	530	453	302	52DLH14	35.0
	F 837	558	558	412	64DLH15	35.5
	F 862	575	575	388	60DLH15	35.9
	F 883	589	547	365	56DLH15	40.7
	F 909	606	606	515	72DLH16	39.1

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
86 (cont.)	F 942	628	628	461	64DLH16	40.6
	F 949	633	633	434	60DLH16	41.7
	F 954	636	610	407	56DLH16	42.3
	F 1086	724	724	525	64DLH17	42.1
	F 1090	727	727	493	60DLH17	44.1
	F 1099	733	694	463	56DLH17	49.6
	F 1108	739	649	433	52DLH17	50.1
	F 1197	798	798	662	72DLH18	46.5
	F 1224	816	816	627	68DLH18	47.4
	F 1254	836	836	593	64DLH18	50.7
	F 1258	839	835	557	60DLH18	51.8
	F 1410	940	940	712	68DLH19	55.1
87	F 303	202	148	99	44LH09	17.9
	F 331	221	178	119	48LH10	17.7
	F 334	223	165	110	44LH10	19.2
	F 358	239	193	129	48LH11	19.0
	F 363	242	178	119	44LH11	21.0
	F 462	308	274	183	52DLH10	22.2
	F 486	324	322	215	56DLH11	22.1
	F 507	338	300	200	52DLH11	24.4
	F 519	346	346	263	64DLH12	23.5
	F 559	373	351	234	56DLH12	25.2
	F 565	377	327	218	52DLH12	26.7
	F 606	404	404	337	68DLH13	27.0
	F 630	420	420	320	64DLH13	27.8
	F 654	436	436	302	60DLH13	29.3
	F 676	451	424	283	56DLH13	30.1
	F 697	465	465	363	68DLH14	29.3
	F 721	481	481	342	64DLH14	30.7
	F 727	485	481	321	60DLH14	31.9
	F 783	522	522	406	68DLH15	32.0
	F 786	524	442	295	52DLH14	35.0
	F 828	552	552	403	64DLH15	35.9
	F 853	569	568	379	60DLH15	40.2
	F 874	583	535	357	56DLH15	40.8
	F 931	621	621	451	64DLH16	40.4
	F 937	625	625	424	60DLH16	41.5
	F 943	629	595	397	56DLH16	42.3
	F 1011	674	674	573	72DLH17	40.9
	F 1045	697	697	542	68DLH17	41.4
	F 1072	715	715	513	64DLH17	44.5
	F 1078	719	719	482	60DLH17	46.9
	F 1095	730	634	423	52DLH17	50.1
	F 1183	789	789	647	72DLH18	46.6
	F 1210	807	807	613	68DLH18	47.5
	F 1245	830	816	544	60DLH18	51.5
	F 1393	929	929	696	68DLH19	55.1
88	F 297	198	144	96	44LH09	17.8
	F 325	217	174	116	48LH10	17.7
	F 327	218	159	106	44LH10	19.0
	F 351	234	187	125	48LH11	19.0

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
88 (cont.)	F 354	236	172	115	44LH11	20.9
	F 457	305	268	179	52DLH10	22.1
	F 481	321	315	210	56DLH11	22.6
	F 501	334	294	196	52DLH11	24.4
	F 513	342	342	257	64DLH12	23.4
	F 532	355	355	244	60DLH12	24.7
	F 559	373	319	213	52DLH12	26.7
	F 622	415	415	313	64DLH13	27.5
	F 646	431	431	295	60DLH13	29.2
	F 669	446	415	277	56DLH13	30.2
	F 690	460	460	354	68DLH14	29.2
	F 714	476	476	335	64DLH14	31.3
	F 718	479	471	314	60DLH14	31.8
	F 756	504	463	309	56DLH14	34.2
	F 774	516	516	397	68DLH15	32.9
	F 817	545	545	393	64DLH15	35.5
	F 843	562	555	370	60DLH15	40.2
	F 864	576	523	349	56DLH15	40.8
	F 921	614	614	440	64DLH16	40.4
	F 927	618	618	414	60DLH16	41.4
	F 933	622	582	388	56DLH16	42.5
	F 999	666	666	560	72DLH17	40.8
	F 1033	689	689	530	68DLH17	42.5
	F 1060	707	707	501	64DLH17	44.4
	F 1066	711	706	471	60DLH17	46.9
	F 1170	780	780	632	72DLH18	46.5
	F 1195	797	797	599	68DLH18	47.8
	F 1230	820	798	532	60DLH18	51.5
	F 1377	918	918	680	68DLH19	55.2
89	F 291	194	139	93	44LH09	17.7
	F 318	212	168	112	48LH10	17.6
	F 321	214	154	103	44LH10	18.9
	F 343	229	180	120	48LH11	19.0
	F 348	232	166	111	44LH11	20.8
	F 451	301	262	175	52DLH10	22.2
	F 475	317	307	205	56DLH11	22.6
	F 495	330	286	191	52DLH11	24.4
	F 507	338	338	251	64DLH12	23.1
	F 526	351	351	239	60DLH12	24.6
	F 553	369	313	209	52DLH12	26.8
	F 616	411	411	306	64DLH13	27.4
	F 639	426	426	288	60DLH13	29.2
	F 661	441	406	271	56DLH13	30.1
	F 681	454	454	346	68DLH14	29.3
	F 705	470	470	327	64DLH14	31.2
	F 711	474	460	307	60DLH14	31.8
	F 747	498	453	302	56DLH14	34.4
	F 759	506	506	408	72DLH15	32.2
	F 765	510	510	388	68DLH15	33.8
	F 808	539	539	385	64DLH15	35.3
	F 834	556	543	362	60DLH15	40.1

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
89 (cont.)	F 855	570	511	341	56DLH15	40.9
	F 910	607	607	431	64DLH16	40.6
	F 916	611	607	405	60DLH16	41.7
	F 922	615	570	380	56DLH16	42.5
	F 988	659	659	547	72DLH17	41.4
	F 1021	681	681	518	68DLH17	42.3
	F 1048	699	699	490	64DLH17	44.3
	F 1156	771	771	618	72DLH18	46.4
	F 1182	788	788	586	68DLH18	47.8
	F 1216	811	780	520	60DLH18	51.5
	F 1362	908	908	665	68DLH19	55.4
90	F 312	208	162	108	48LH10	17.6
	F 337	225	175	117	48LH11	19.0
	F 424	283	220	147	48LH12	22.8
	F 447	298	256	171	52DLH10	22.5
	F 490	327	280	187	52DLH11	24.4
	F 502	335	335	246	64DLH12	23.4
	F 520	347	347	233	60DLH12	24.5
	F 547	365	306	204	52DLH12	26.7
	F 609	406	406	299	64DLH13	27.5
	F 633	422	422	282	60DLH13	29.3
	F 664	443	370	247	52DLH13	32.1
	F 697	465	465	320	64DLH14	31.1
	F 702	468	450	300	60DLH14	31.8
	F 751	501	501	399	72DLH15	32.2
	F 756	504	504	379	68DLH15	33.8
	F 799	533	533	376	64DLH15	35.4
	F 825	550	531	354	60DLH15	40.1
	F 868	579	579	471	72DLH16	39.2
	F 897	598	598	446	68DLH16	40.0
	F 906	604	594	396	60DLH16	41.7
	F 912	608	556	371	56DLH16	42.5
	F 976	651	651	535	72DLH17	41.4
	F 1011	674	674	506	68DLH17	42.2
	F 1036	691	691	479	64DLH17	44.2
	F 1059	706	592	395	52DLH17	50.0
	F 1144	763	763	604	72DLH18	47.8
	F 1170	780	780	573	68DLH18	50.8
	F 1197	798	798	542	64DLH18	51.6
	F 1203	802	762	508	60DLH18	54.7
	F 1347	898	898	650	68DLH19	55.4
91	F 306	204	157	105	48LH10	17.6
	F 330	220	169	113	48LH11	18.9
	F 436	291	247	165	52DLH10	22.1
	F 480	320	271	181	52DLH11	24.3
	F 496	331	331	240	64DLH12	24.4
	F 535	357	295	197	52DLH12	26.7
	F 601	401	401	292	64DLH13	27.9
	F 625	417	414	276	60DLH13	29.7
	F 649	433	358	239	52DLH13	32.2
	F 694	463	439	293	60DLH14	32.7

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
91 (cont.)	F 742	495	495	391	72DLH15	32.2
	F 748	499	499	371	68DLH15	33.4
	F 790	527	527	368	64DLH15	35.3
	F 816	544	519	346	60DLH15	40.1
	F 835	557	489	326	56DLH15	40.9
	F 897	598	580	387	60DLH16	41.4
	F 901	601	544	363	56DLH16	42.5
	F 966	644	644	524	72DLH17	41.4
	F 999	666	666	495	68DLH17	42.3
	F 1026	684	684	468	64DLH17	44.3
	F 1036	691	571	381	52DLH17	49.7
	F 1131	754	754	591	72DLH18	47.6
	F 1156	771	771	560	68DLH18	50.6
	F 1185	790	790	530	64DLH18	51.6
	F 1189	793	745	497	60DLH18	54.7
	F 1327	885	885	671	72DLH19	55.2
	F 1332	888	888	636	68DLH19	56.3
92	F 300	200	153	102	48LH10	17.6
	F 324	216	165	110	48LH11	19.0
	F 427	285	238	159	52DLH10	22.4
	F 460	307	288	192	56DLH11	24.0
	F 469	313	261	174	52DLH11	24.9
	F 490	327	327	235	64DLH12	24.3
	F 508	339	334	223	60DLH12	24.9
	F 523	349	286	191	52DLH12	27.1
	F 528	352	313	209	56DLH12	26.8
	F 595	397	397	286	64DLH13	28.6
	F 618	412	405	270	60DLH13	30.2
	F 636	424	346	231	52DLH13	32.0
	F 640	427	379	253	56DLH13	32.3
	F 642	428	428	342	72DLH14	29.7
	F 660	440	440	324	68DLH14	30.6
	F 687	458	430	287	60DLH14	32.3
	F 735	490	490	382	72DLH15	32.1
	F 739	493	493	363	68DLH15	33.5
	F 781	521	521	360	64DLH15	35.1
	F 807	538	508	339	60DLH15	40.0
	F 826	551	478	319	56DLH15	40.8
	F 877	585	585	426	68DLH16	40.6
	F 892	595	532	355	56DLH16	42.5
	F 955	637	637	512	72DLH17	41.5
	F 1014	676	676	458	64DLH17	44.3
	F 1119	746	746	578	72DLH18	47.7
	F 1171	781	777	518	64DLH18	51.5
	F 1176	784	729	486	60DLH18	54.6
	F 1312	875	875	656	72DLH19	55.2
	F 1317	878	878	622	68DLH19	56.2
93	F 294	196	148	99	48LH10	18.2
	F 318	212	159	106	48LH11	19.3
	F 418	279	231	154	52DLH10	22.3
	F 459	306	253	169	52DLH11	24.5

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
93 (cont.)	F 486	324	324	230	64DLH12	24.3
	F 504	336	327	218	60DLH12	25.4
	F 513	342	277	185	52DLH12	27.0
	F 523	349	306	204	56DLH12	26.9
	F 589	393	393	280	64DLH13	28.4
	F 612	408	396	264	60DLH13	30.2
	F 621	414	336	224	52DLH13	32.1
	F 634	423	423	335	72DLH14	29.6
	F 652	435	435	317	68DLH14	30.7
	F 675	450	448	299	64DLH14	32.2
	F 679	453	421	281	60DLH14	33.2
	F 727	485	485	374	72DLH15	32.0
	F 732	488	488	355	68DLH15	33.5
	F 774	516	516	352	64DLH15	35.7
	F 798	532	498	332	60DLH15	41.1
	F 799	533	423	282	52DLH15	42.0
	F 817	545	468	312	56DLH15	41.8
	F 867	578	578	417	68DLH16	40.7
	F 882	588	522	348	56DLH16	42.4
	F 945	630	630	501	72DLH17	41.4
	F 1003	669	669	448	64DLH17	44.2
	F 1017	678	592	395	56DLH17	50.2
	F 1107	738	738	566	72DLH18	47.9
	F 1159	773	760	507	64DLH18	51.5
	F 1164	776	714	476	60DLH18	54.7
	F 1297	865	865	642	72DLH19	55.4
	F 1303	869	869	609	68DLH19	56.1
94	F 288	192	144	96	48LH10	18.1
	F 312	208	154	103	48LH11	19.0
	F 409	273	225	150	52DLH10	22.4
	F 448	299	246	164	52DLH11	24.5
	F 450	300	276	184	56DLH11	24.0
	F 480	320	320	225	64DLH12	24.5
	F 501	334	268	179	52DLH12	27.1
	F 517	345	300	200	56DLH12	26.8
	F 561	374	374	289	68DLH13	28.2
	F 583	389	389	274	64DLH13	29.5
	F 606	404	387	258	60DLH13	30.6
	F 609	406	324	216	52DLH13	32.1
	F 627	418	418	328	72DLH14	29.7
	F 645	430	430	310	68DLH14	30.6
	F 667	445	439	293	64DLH14	32.1
	F 672	448	412	275	60DLH14	33.0
	F 708	472	406	271	56DLH14	35.2
	F 765	510	510	345	64DLH15	35.2
	F 789	526	487	325	60DLH15	40.8
	F 808	539	459	306	56DLH15	41.9
	F 831	554	554	431	72DLH16	41.0
	F 861	574	574	386	64DLH16	42.0
	F 868	579	544	363	60DLH16	42.7
	F 934	623	623	491	72DLH17	41.5

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
94 (cont.)	F 967	645	645	464	68DLH17	44.6
	F 970	647	519	346	52DLH17	49.9
	F 993	662	658	439	64DLH17	47.9
	F 997	665	618	412	60DLH17	50.0
	F 1095	730	730	554	72DLH18	47.7
	F 1119	746	746	525	68DLH18	51.7
	F 1146	764	744	496	64DLH18	55.1
	F 1152	768	699	466	60DLH18	55.0
	F 1284	856	856	629	72DLH19	55.2
	F 1288	859	859	596	68DLH19	56.0
95	F 282	188	139	93	48LH10	18.1
	F 306	204	150	100	48LH11	19.3
	F 400	267	217	145	52DLH10	22.4
	F 439	293	237	158	52DLH11	24.5
	F 445	297	270	180	56DLH11	24.7
	F 475	317	317	221	64DLH12	24.8
	F 493	329	313	209	60DLH12	25.4
	F 511	341	294	196	56DLH12	26.9
	F 555	370	370	282	68DLH13	28.3
	F 576	384	384	268	64DLH13	29.5
	F 598	399	379	253	60DLH13	30.4
	F 619	413	355	237	56DLH13	32.2
	F 639	426	426	304	68DLH14	30.7
	F 660	440	430	287	64DLH14	32.0
	F 666	444	403	269	60DLH14	33.0
	F 700	467	397	265	56DLH14	35.3
	F 711	474	474	358	72DLH15	33.7
	F 715	477	477	340	68DLH15	34.6
	F 757	505	505	337	64DLH15	36.3
	F 781	521	477	318	60DLH15	40.9
	F 799	533	448	299	56DLH15	41.9
	F 822	548	548	422	72DLH16	41.0
	F 852	568	567	378	64DLH16	42.0
	F 859	573	532	355	60DLH16	42.6
	F 925	617	617	480	72DLH17	41.4
	F 957	638	638	454	68DLH17	44.5
	F 987	658	606	404	60DLH17	50.1
	F 1084	723	723	542	72DLH18	47.7
	F 1107	738	738	514	68DLH18	51.7
	F 1134	756	729	486	64DLH18	55.0
	F 1270	847	847	615	72DLH19	55.2
	F 1275	850	850	583	68DLH19	56.1
96	F 277	185	135	90	48LH10	18.2
	F 300	200	145	97	48LH11	19.2
	F 391	261	210	140	52DLH10	22.3
	F 430	287	229	153	52DLH11	24.5
	F 441	294	264	176	56DLH11	24.7
	F 471	314	314	216	64DLH12	24.8
	F 480	320	252	168	52DLH12	27.0
	F 487	325	307	205	60DLH12	25.6
	F 507	338	288	192	56DLH12	26.9

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
96 (cont.)	F 549	366	366	277	68DLH13	28.0
	F 570	380	380	263	64DLH13	29.5
	F 592	395	372	248	60DLH13	30.3
	F 613	409	348	232	56DLH13	32.1
	F 631	421	421	298	68DLH14	30.7
	F 654	436	421	281	64DLH14	32.0
	F 658	439	396	264	60DLH14	32.9
	F 693	462	390	260	56DLH14	35.2
	F 703	469	469	351	72DLH15	33.7
	F 708	472	472	333	68DLH15	34.5
	F 750	500	495	330	64DLH15	40.3
	F 772	515	466	311	60DLH15	41.0
	F 792	528	439	293	56DLH15	41.9
	F 813	542	542	413	72DLH16	41.0
	F 843	562	555	370	64DLH16	41.9
	F 850	567	522	348	60DLH16	42.8
	F 915	610	610	470	72DLH17	42.3
	F 946	631	631	445	68DLH17	44.5
	F 984	656	556	371	56DLH17	50.3
	F 1072	715	715	531	72DLH18	51.2
	F 1096	731	731	503	68DLH18	51.7
	F 1122	748	714	476	64DLH18	55.0
	F 1257	838	838	603	72DLH19	56.7
	F 1261	841	841	571	68DLH19	58.4
97	F 271	181	130	87	48LH10	17.5
	F 294	196	141	94	48LH11	19.3
	F 384	256	204	136	52DLH10	22.2
	F 421	281	223	149	52DLH11	24.5
	F 436	291	259	173	56DLH11	24.7
	F 471	314	244	163	52DLH12	26.9
	F 483	322	301	201	60DLH12	26.0
	F 501	334	282	188	56DLH12	27.2
	F 543	362	362	271	68DLH13	28.0
	F 565	377	377	257	64DLH13	29.5
	F 586	391	364	243	60DLH13	30.3
	F 606	404	342	228	56DLH13	32.1
	F 646	431	412	275	64DLH14	32.4
	F 651	434	387	258	60DLH14	34.3
	F 696	464	464	344	72DLH15	33.7
	F 702	468	468	326	68DLH15	35.7
	F 741	494	486	324	64DLH15	40.1
	F 765	510	457	305	60DLH15	41.2
	F 783	522	430	287	56DLH15	41.9
	F 805	537	537	405	72DLH16	41.0
	F 835	557	543	362	64DLH16	42.0
	F 841	561	511	341	60DLH16	42.8
	F 846	564	480	320	56DLH16	45.7
	F 906	604	604	461	72DLH17	43.2
	F 937	625	625	436	68DLH17	44.5
	F 975	650	544	363	56DLH17	50.0
	F 1084	723	723	493	68DLH18	51.8

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
97 (cont.)	F 1111	741	699	466	64DLH18	54.9
	F 1245	830	830	590	72DLH19	56.4
	F 1249	833	833	559	68DLH19	58.5
98	F 376	251	198	132	52DLH10	22.3
	F 412	275	216	144	52DLH11	24.3
	F 432	288	253	169	56DLH11	24.9
	F 460	307	237	158	52DLH12	26.8
	F 477	318	295	197	60DLH12	25.9
	F 496	331	276	184	56DLH12	27.7
	F 537	358	358	265	68DLH13	27.9
	F 559	373	373	252	64DLH13	29.5
	F 601	401	334	223	56DLH13	32.1
	F 619	413	413	286	68DLH14	31.7
	F 640	427	405	270	64DLH14	32.7
	F 645	430	379	253	60DLH14	34.3
	F 694	463	463	320	68DLH15	35.7
	F 733	489	475	317	64DLH15	40.0
	F 796	531	531	397	72DLH16	40.3
	F 826	551	532	355	64DLH16	42.0
	F 832	555	501	334	60DLH16	42.7
	F 838	559	469	313	56DLH16	45.8
	F 897	598	598	451	72DLH17	43.0
	F 927	618	618	427	68DLH17	44.2
	F 964	643	534	356	56DLH17	50.1
	F 1074	716	716	483	68DLH18	51.7
	F 1099	733	684	456	64DLH18	54.8
	F 1231	821	821	578	72DLH19	56.4
	F 1236	824	822	548	68DLH19	58.3
99	F 369	246	192	128	52DLH10	22.3
	F 405	270	210	140	52DLH11	24.3
	F 424	283	244	163	56DLH11	25.2
	F 451	301	229	153	52DLH12	26.6
	F 456	304	304	203	64DLH12	25.2
	F 472	315	289	193	60DLH12	26.7
	F 486	324	267	178	56DLH12	27.6
	F 532	355	355	260	68DLH13	27.9
	F 553	369	369	247	64DLH13	29.4
	F 574	383	349	233	60DLH13	31.5
	F 591	394	324	216	56DLH13	32.3
	F 612	408	408	280	68DLH14	31.6
	F 634	423	396	264	64DLH14	33.6
	F 639	426	372	248	60DLH14	34.3
	F 687	458	458	313	68DLH15	35.6
	F 726	484	466	311	64DLH15	40.1
	F 789	526	526	389	72DLH16	40.2
	F 817	545	522	348	64DLH16	42.3
	F 823	549	490	327	60DLH16	42.8
	F 888	592	592	442	72DLH17	43.0
	F 918	612	612	418	68DLH17	44.2
	F 945	630	517	345	56DLH17	50.1
	F 946	631	558	372	60DLH17	50.2

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
99 (cont.)	F 1062	708	708	473	68DLH18	51.6
	F 1089	726	670	447	64DLH18	54.9
	F 1219	813	813	566	72DLH19	56.4
	F 1224	816	805	537	68DLH19	61.4
100	F 361	241	186	124	52DLH10	22.3
	F 396	264	202	135	52DLH11	24.4
	F 415	277	237	158	56DLH11	25.0
	F 442	295	223	149	52DLH12	26.6
	F 451	301	298	199	64DLH12	24.9
	F 468	312	283	189	60DLH12	26.7
	F 477	318	259	173	56DLH12	27.3
	F 526	351	351	255	68DLH13	27.8
	F 547	365	363	242	64DLH13	29.4
	F 568	379	342	228	60DLH13	31.5
	F 579	386	313	209	56DLH13	32.5
	F 589	393	393	289	72DLH14	30.9
	F 606	404	404	274	68DLH14	32.6
	F 627	418	388	259	64DLH14	33.2
	F 631	421	364	243	60DLH14	34.3
	F 652	435	351	234	56DLH14	36.3
	F 679	453	453	307	68DLH15	35.5
	F 720	480	456	304	64DLH15	40.1
	F 742	495	430	287	60DLH15	41.3
	F 747	498	396	264	56DLH15	42.3
	F 816	544	480	320	60DLH16	42.8
	F 879	586	586	433	72DLH17	43.0
	F 909	606	606	410	68DLH17	44.1
	F 927	618	502	335	56DLH17	50.4
	F 937	625	546	364	60DLH17	50.3
	F 1051	701	694	463	68DLH18	51.5
	F 1077	718	657	438	64DLH18	54.9
	F 1207	805	805	555	72DLH19	56.4
	F 1212	808	789	526	68DLH19	61.4
101	F 354	236	180	120	52DLH10	22.3
	F 388	259	198	132	52DLH11	24.4
	F 408	272	229	153	56DLH11	25.0
	F 433	289	216	144	52DLH12	26.8
	F 447	298	292	195	64DLH12	25.2
	F 463	309	277	185	60DLH12	26.6
	F 468	312	252	168	56DLH12	27.1
	F 522	348	348	250	68DLH13	27.8
	F 543	362	355	237	64DLH13	29.5
	F 562	375	336	224	60DLH13	31.4
	F 568	379	306	204	56DLH13	32.5
	F 583	389	389	284	72DLH14	31.0
	F 621	414	381	254	64DLH14	33.3
	F 625	417	357	238	60DLH14	34.3
	F 640	427	342	228	56DLH14	36.1
	F 673	449	449	301	68DLH15	35.6
	F 712	475	447	298	64DLH15	40.2
	F 735	490	421	281	60DLH15	41.2

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
101 (cont.)	F 801	534	501	334	64DLH16	42.8
	F 870	580	580	425	72DLH17	43.0
	F 900	600	600	402	68DLH17	44.2
	F 907	605	487	325	56DLH17	50.3
	F 928	619	535	357	60DLH17	50.3
	F 1041	694	681	454	68DLH18	51.5
	F 1066	711	645	430	64DLH18	55.3
	F 1195	797	797	544	72DLH19	56.1
	F 1200	800	774	516	68DLH19	61.4
102	F 346	231	174	116	52DLH10	22.2
	F 381	254	192	128	52DLH11	24.3
	F 400	267	223	149	56DLH11	24.9
	F 426	284	210	140	52DLH12	26.8
	F 442	295	286	191	64DLH12	25.9
	F 459	306	244	163	56DLH12	27.1
	F 537	358	348	232	64DLH13	30.6
	F 558	372	295	197	56DLH13	32.4
	F 579	386	386	278	72DLH14	30.9
	F 615	410	373	249	64DLH14	33.2
	F 619	413	349	233	60DLH14	35.2
	F 628	419	331	221	56DLH14	36.1
	F 667	445	442	295	68DLH15	35.4
	F 705	470	438	292	64DLH15	40.4
	F 717	478	372	248	56DLH15	42.3
	F 727	485	412	275	60DLH15	42.2
	F 793	529	490	327	64DLH16	42.9
	F 861	574	574	416	72DLH17	43.0
	F 919	613	525	350	60DLH17	50.1
	F 1009	673	673	470	72DLH18	51.9
	F 1032	688	667	445	68DLH18	54.7
	F 1060	707	592	395	60DLH18	57.2
	F 1183	789	789	534	72DLH19	58.7
	F 1188	792	759	506	68DLH19	61.5
103	F 340	227	171	114	52DLH10	22.3
	F 373	249	186	124	52DLH11	24.3
	F 393	262	217	145	56DLH11	24.9
	F 417	278	202	135	52DLH12	26.8
	F 438	292	282	188	64DLH12	25.8
	F 450	300	237	158	56DLH12	27.1
	F 454	303	267	178	60DLH12	27.5
	F 532	355	342	228	64DLH13	30.5
	F 547	365	286	191	56DLH13	32.4
	F 552	368	322	215	60DLH13	32.4
	F 573	382	382	273	72DLH14	30.8
	F 589	393	387	258	68DLH14	32.4
	F 609	406	366	244	64DLH14	34.1
	F 613	409	343	229	60DLH14	35.2
	F 616	411	321	214	56DLH14	36.1
	F 660	440	433	289	68DLH15	35.3
	F 699	466	430	287	64DLH15	41.2
	F 703	469	363	242	56DLH15	42.3

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
103 (cont.)	F 720	480	405	270	60DLH15	42.2
	F 786	524	481	321	64DLH16	42.9
	F 792	528	453	302	60DLH16	46.0
	F 853	569	569	408	72DLH17	44.3
	F 873	582	459	306	56DLH17	50.2
	F 910	607	514	343	60DLH17	50.1
	F 999	666	666	461	72DLH18	51.8
	F 1021	681	655	437	68DLH18	54.6
	F 1050	700	582	388	60DLH18	57.3
	F 1176	784	744	496	68DLH19	61.4
104	F 334	223	165	110	52DLH10	22.2
	F 366	244	180	120	52DLH11	24.3
	F 385	257	210	140	56DLH11	24.9
	F 409	273	198	132	52DLH12	26.7
	F 433	289	276	184	64DLH12	25.7
	F 442	295	229	153	56DLH12	27.1
	F 450	300	262	175	60DLH12	27.8
	F 526	351	336	224	64DLH13	30.5
	F 537	358	279	186	56DLH13	32.3
	F 547	365	316	211	60DLH13	32.4
	F 567	378	378	268	72DLH14	30.8
	F 583	389	379	253	68DLH14	32.5
	F 603	402	358	239	64DLH14	34.6
	F 607	405	336	224	60DLH14	35.3
	F 654	436	426	284	68DLH15	36.0
	F 691	461	421	281	64DLH15	41.2
	F 714	476	397	265	60DLH15	42.2
	F 775	517	499	333	68DLH16	42.3
	F 778	519	472	315	64DLH16	43.1
	F 784	523	444	296	60DLH16	46.0
	F 844	563	563	401	72DLH17	44.0
	F 856	571	447	298	56DLH17	50.2
	F 901	601	505	337	60DLH17	50.2
	F 990	660	660	452	72DLH18	51.3
	F 1011	674	642	428	68DLH18	54.7
	F 1041	694	570	380	60DLH18	57.3
	F 1165	777	729	486	68DLH19	61.4
105	F 327	218	160	107	52DLH10	22.2
	F 360	240	175	117	52DLH11	24.3
	F 379	253	204	136	56DLH11	24.9
	F 402	268	192	128	52DLH12	26.7
	F 433	289	225	150	56DLH12	27.1
	F 445	297	256	171	60DLH12	27.7
	F 522	348	328	219	64DLH13	30.5
	F 526	351	271	181	56DLH13	32.3
	F 541	361	310	207	60DLH13	32.5
	F 562	375	375	262	72DLH14	31.6
	F 577	385	373	249	68DLH14	32.8
	F 597	398	352	235	64DLH14	34.6
	F 601	401	330	220	60DLH14	35.2
	F 648	432	417	278	68DLH15	36.0

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
105 (cont.)	F 685	457	414	276	64DLH15	41.2
	F 706	471	390	260	60DLH15	42.3
	F 771	514	463	309	64DLH16	43.1
	F 777	518	435	290	60DLH16	46.0
	F 837	558	558	393	72DLH17	43.9
	F 840	560	433	289	56DLH17	49.9
	F 892	595	495	330	60DLH17	50.2
	F 979	653	653	444	72DLH18	51.3
	F 1002	668	630	420	68DLH18	54.7
	F 1030	687	559	373	60DLH18	57.2
	F 1153	769	715	477	68DLH19	61.5
106	F 372	248	199	133	56DLH11	24.9
	F 426	284	217	145	56DLH12	27.1
	F 442	295	252	168	60DLH12	27.8
	F 516	344	322	215	64DLH13	30.5
	F 537	358	304	203	60DLH13	32.8
	F 556	371	371	257	72DLH14	31.7
	F 571	381	366	244	68DLH14	32.7
	F 592	395	345	230	64DLH14	34.6
	F 597	398	324	216	60DLH14	35.7
	F 642	428	409	273	68DLH15	35.6
	F 678	452	406	271	64DLH15	41.3
	F 700	467	382	255	60DLH15	42.3
	F 763	509	454	303	64DLH16	43.1
	F 769	513	427	285	60DLH16	46.1
	F 829	553	553	385	72DLH17	44.3
	F 885	590	486	324	60DLH17	50.4
	F 970	647	647	435	72DLH18	51.3
	F 991	661	618	412	68DLH18	54.7
	F 1017	678	585	390	64DLH18	57.7
	F 1021	681	549	366	60DLH18	58.1
	F 1143	762	702	468	68DLH19	61.5
107	F 366	244	193	129	56DLH11	24.9
	F 417	278	211	141	56DLH12	27.1
	F 421	281	261	174	64DLH12	27.0
	F 433	289	244	163	60DLH12	27.7
	F 492	328	328	222	68DLH13	30.3
	F 511	341	316	211	64DLH13	31.1
	F 526	351	295	197	60DLH13	32.7
	F 567	378	358	239	68DLH14	32.8
	F 586	391	339	226	64DLH14	34.5
	F 636	424	402	268	68DLH15	35.5
	F 672	448	399	266	64DLH15	41.2
	F 687	458	372	248	60DLH15	42.6
	F 756	504	447	298	64DLH16	43.1
	F 820	547	547	378	72DLH17	44.3
	F 868	579	472	315	60DLH17	50.6
	F 871	581	507	338	64DLH17	50.6
	F 961	641	640	427	72DLH18	51.3
	F 982	655	607	405	68DLH18	55.1
	F 1006	671	574	383	64DLH18	57.7

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
107	F 1132	755	688	459	68DLH19	61.6
108	F 358	239	187	125	56DLH11	24.8
	F 409	273	205	137	56DLH12	27.5
	F 418	279	256	171	64DLH12	27.1
	F 426	284	237	158	60DLH12	27.6
	F 487	325	325	218	68DLH13	30.2
	F 496	331	249	166	56DLH13	32.3
	F 507	338	310	207	64DLH13	31.7
	F 517	345	286	191	60DLH13	32.5
	F 561	374	352	235	68DLH14	32.7
	F 580	387	333	222	64DLH14	34.6
	F 625	417	415	277	72DLH15	35.9
	F 630	420	394	263	68DLH15	40.3
	F 666	444	391	261	64DLH15	41.2
	F 675	450	363	242	60DLH15	42.6
	F 750	500	438	292	64DLH16	43.1
	F 813	542	542	371	72DLH17	44.2
	F 853	569	459	306	60DLH17	50.5
	F 864	576	498	332	64DLH17	50.6
	F 952	635	628	419	72DLH18	51.7
	F 973	649	595	397	68DLH18	55.2
	F 997	665	564	376	64DLH18	57.7
	F 1122	748	676	451	68DLH19	61.6
109	F 352	235	183	122	56DLH11	24.9
	F 402	268	199	133	56DLH12	27.2
	F 414	276	250	167	64DLH12	27.0
	F 418	279	231	154	60DLH12	27.6
	F 483	322	321	214	68DLH13	30.2
	F 487	325	241	161	56DLH13	32.2
	F 502	335	306	204	64DLH13	31.8
	F 508	339	280	187	60DLH13	32.5
	F 541	361	361	243	72DLH14	32.8
	F 556	371	346	231	68DLH14	33.8
	F 564	376	298	199	60DLH14	35.5
	F 576	384	327	218	64DLH14	35.4
	F 619	413	408	272	72DLH15	36.3
	F 624	416	387	258	68DLH15	37.5
	F 660	440	384	256	64DLH15	41.3
	F 663	442	352	235	60DLH15	42.4
	F 717	478	478	320	72DLH16	42.7
	F 739	493	454	303	68DLH16	43.6
	F 805	537	537	365	72DLH17	44.3
	F 837	558	447	298	60DLH17	50.4
	F 856	571	489	326	64DLH17	50.6
	F 943	629	616	411	72DLH18	51.8
	F 964	643	585	390	68DLH18	55.0
	F 988	659	553	369	64DLH18	57.7
	F 1111	741	664	443	68DLH19	61.8
110	F 346	231	177	118	56DLH11	24.8
	F 394	263	195	130	56DLH12	27.2
	F 411	274	225	150	60DLH12	27.6

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
110 (cont.)	F 478	319	315	210	68DLH13	30.1
	F 498	332	300	200	64DLH13	31.8
	F 499	333	271	181	60DLH13	32.5
	F 535	357	357	239	72DLH14	32.8
	F 550	367	339	226	68DLH14	33.8
	F 555	370	289	193	60DLH14	35.6
	F 570	380	321	214	64DLH14	35.5
	F 613	409	400	267	72DLH15	36.0
	F 654	436	376	251	64DLH15	41.2
	F 709	473	472	315	72DLH16	42.8
	F 733	489	447	298	68DLH16	43.5
	F 736	491	421	281	64DLH16	46.3
	F 799	533	533	358	72DLH17	44.6
	F 822	548	435	290	60DLH17	50.5
	F 847	565	480	320	64DLH17	50.7
	F 936	624	606	404	72DLH18	54.6
	F 955	637	574	383	68DLH18	54.8
	F 979	653	543	362	64DLH18	57.6
	F 1101	734	651	434	68DLH19	61.8
111	F 340	227	172	115	56DLH11	24.8
	F 388	259	189	126	56DLH12	27.2
	F 405	270	219	146	60DLH12	27.6
	F 406	271	241	161	64DLH12	28.2
	F 474	316	310	207	68DLH13	30.2
	F 493	329	294	196	64DLH13	31.8
	F 531	354	352	235	72DLH14	33.3
	F 546	364	333	222	68DLH14	34.5
	F 565	377	315	210	64DLH14	35.5
	F 609	406	393	262	72DLH15	36.4
	F 648	432	370	247	64DLH15	41.3
	F 703	469	463	309	72DLH16	42.8
	F 726	484	438	292	68DLH16	43.5
	F 729	486	414	276	64DLH16	46.3
	F 792	528	526	351	72DLH17	47.5
	F 807	538	424	283	60DLH17	50.5
	F 840	560	471	314	64DLH17	50.5
	F 927	618	595	397	72DLH18	54.5
	F 970	647	534	356	64DLH18	57.6
	F 1087	725	675	450	72DLH19	61.4
	F 1090	727	640	427	68DLH19	64.3
112	F 334	223	169	113	56DLH11	24.8
	F 381	254	184	123	56DLH12	27.1
	F 397	265	213	142	60DLH12	27.5
	F 403	269	238	159	64DLH12	28.2
	F 469	313	304	203	68DLH13	30.0
	F 489	326	289	193	64DLH13	31.8
	F 526	351	346	231	72DLH14	33.3
	F 534	356	274	183	60DLH14	35.3
	F 541	361	327	218	68DLH14	35.1
	F 559	373	309	206	64DLH14	36.0
	F 603	402	387	258	72DLH15	36.0

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
112 (cont.)	F 607	405	367	245	68DLH15	40.5
	F 642	428	363	242	64DLH15	42.4
	F 697	465	454	303	72DLH16	42.7
	F 720	480	430	287	68DLH16	43.5
	F 723	482	406	271	64DLH16	46.3
	F 738	492	357	238	56DLH17	49.7
	F 784	523	517	345	72DLH17	47.9
	F 793	529	412	275	60DLH17	50.4
	F 832	555	463	309	64DLH17	50.5
	F 919	613	585	390	72DLH18	55.0
	F 939	626	553	369	68DLH18	57.4
	F 961	641	523	349	64DLH18	60.9
	F 1077	718	663	442	72DLH19	61.4
	F 1081	721	628	419	68DLH19	64.2
113	F 328	219	165	110	56DLH11	24.8
	F 373	249	178	119	56DLH12	27.0
	F 391	261	207	138	60DLH12	27.7
	F 399	266	234	156	64DLH12	28.1
	F 454	303	217	145	56DLH13	32.2
	F 466	311	298	199	68DLH13	31.1
	F 474	316	250	167	60DLH13	32.6
	F 484	323	283	189	64DLH13	33.2
	F 522	348	339	226	72DLH14	33.2
	F 525	350	267	178	60DLH14	35.3
	F 537	358	322	215	68DLH14	35.2
	F 555	370	304	203	64DLH14	35.9
	F 598	399	379	253	72DLH15	40.4
	F 601	401	360	240	68DLH15	40.5
	F 636	424	357	238	64DLH15	42.3
	F 714	476	423	282	68DLH16	43.5
	F 717	478	400	267	64DLH16	46.2
	F 724	483	346	231	56DLH17	49.7
	F 778	519	400	267	60DLH17	50.5
	F 825	550	454	303	64DLH17	50.6
	F 910	607	574	383	72DLH18	55.3
	F 930	620	544	363	68DLH18	57.8
	F 952	635	514	343	64DLH18	60.9
	F 1068	712	651	434	72DLH19	61.6
	F 1071	714	618	412	68DLH19	64.3
114	F 384	256	201	134	60DLH12	27.6
	F 396	264	229	153	64DLH12	28.1
	F 462	308	294	196	68DLH13	30.9
	F 466	311	244	163	60DLH13	32.6
	F 481	321	279	186	64DLH13	33.1
	F 517	345	334	223	72DLH14	33.4
	F 532	355	316	211	68DLH14	35.1
	F 550	367	298	199	64DLH14	35.9
	F 597	398	354	236	68DLH15	40.3
	F 607	405	307	205	60DLH15	42.3
	F 631	421	351	234	64DLH15	42.8
	F 708	472	415	277	68DLH16	43.5

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
114 (cont.)	F 711	474	393	262	64DLH16	46.8
	F 765	510	391	261	60DLH17	50.4
	F 819	546	447	298	64DLH17	51.3
	F 903	602	564	376	72DLH18	55.1
	F 922	615	534	356	68DLH18	57.8
	F 945	630	505	337	64DLH18	61.5
	F 1059	706	640	427	72DLH19	61.5
	F 1062	708	606	404	68DLH19	64.2
115	F 378	252	196	131	60DLH12	27.9
	F 388	259	225	150	64DLH12	28.0
	F 459	306	237	158	60DLH13	32.7
	F 472	315	271	181	64DLH13	33.0
	F 513	342	328	219	72DLH14	33.2
	F 526	351	310	207	68DLH14	35.1
	F 540	360	289	193	64DLH14	35.8
	F 591	394	348	232	68DLH15	40.4
	F 597	398	300	200	60DLH15	42.4
	F 621	414	342	228	64DLH15	42.7
	F 700	467	408	272	68DLH16	43.5
	F 751	501	381	254	60DLH17	50.5
	F 804	536	435	290	64DLH17	51.1
	F 894	596	555	370	72DLH18	55.1
	F 915	610	525	350	68DLH18	57.8
	F 928	619	492	328	64DLH18	61.5
	F 1048	699	628	419	72DLH19	61.5
	F 1053	702	595	397	68DLH19	64.1
116	F 372	248	192	128	60DLH12	27.8
	F 382	255	219	146	64DLH12	28.0
	F 451	301	231	154	60DLH13	32.6
	F 454	303	283	189	68DLH13	32.1
	F 465	310	264	176	64DLH13	33.0
	F 508	339	322	215	72DLH14	33.1
	F 522	348	306	204	68DLH14	35.1
	F 531	354	283	189	64DLH14	35.8
	F 588	392	291	194	60DLH15	42.3
	F 610	407	334	223	64DLH15	42.7
	F 642	428	325	217	60DLH16	46.1
	F 673	449	424	283	72DLH16	44.1
	F 687	458	372	248	64DLH16	46.7
	F 694	463	402	268	68DLH16	46.9
	F 739	493	370	247	60DLH17	50.4
	F 790	527	424	283	64DLH17	51.2
	F 886	591	544	363	72DLH18	54.7
	F 906	604	516	344	68DLH18	57.8
	F 912	608	480	320	64DLH18	61.4
	F 1039	693	618	412	72DLH19	61.9
	F 1044	696	586	391	68DLH19	64.2
117	F 366	244	186	124	60DLH12	27.6
	F 376	251	213	142	64DLH12	28.0
	F 444	296	226	151	60DLH13	32.6
	F 450	300	279	186	68DLH13	32.1

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
117 (cont.)	F 457	305	256	171	64DLH13	33.0
	F 504	336	316	211	72DLH14	33.0
	F 517	345	300	200	68DLH14	35.1
	F 523	349	276	184	64DLH14	35.8
	F 580	387	336	224	68DLH15	41.4
	F 600	400	325	217	64DLH15	42.6
	F 667	445	417	278	72DLH16	44.1
	F 675	450	363	242	64DLH16	46.7
	F 688	459	394	263	68DLH16	46.9
	F 726	484	361	241	60DLH17	50.6
	F 777	518	412	275	64DLH17	51.1
	F 879	586	535	357	72DLH18	54.6
	F 898	599	507	338	68DLH18	57.8
	F 1030	687	607	405	72DLH19	61.8
	F 1035	690	576	384	68DLH19	64.1
118	F 360	240	181	121	60DLH12	27.6
	F 370	247	207	138	64DLH12	27.9
	F 436	291	220	147	60DLH13	32.6
	F 445	297	274	183	68DLH13	32.1
	F 450	300	252	168	64DLH13	32.9
	F 481	321	234	156	60DLH14	35.1
	F 514	343	268	179	64DLH14	35.7
	F 576	384	330	220	68DLH15	41.4
	F 591	394	316	211	64DLH15	42.4
	F 661	441	409	273	72DLH16	44.0
	F 664	443	352	235	64DLH16	46.6
	F 684	456	388	259	68DLH16	46.8
	F 714	476	352	235	60DLH17	50.6
	F 763	509	402	268	64DLH17	51.0
	F 769	513	441	294	68DLH17	50.8
	F 871	581	526	351	72DLH18	54.7
	F 891	594	499	333	68DLH18	57.8
	F 1026	684	565	377	68DLH19	64.3
119	F 354	236	177	118	60DLH12	27.6
	F 364	243	202	135	64DLH12	28.0
	F 429	286	214	143	60DLH13	32.4
	F 442	295	244	163	64DLH13	32.9
	F 474	316	228	152	60DLH14	35.1
	F 505	337	261	174	64DLH14	35.6
	F 510	340	289	193	68DLH14	36.1
	F 571	381	325	217	68DLH15	41.4
	F 580	387	309	206	64DLH15	42.4
	F 655	437	403	269	72DLH16	44.0
	F 678	452	381	254	68DLH16	46.8
	F 702	468	342	228	60DLH17	50.3
	F 751	501	393	262	64DLH17	50.8
	F 763	509	433	289	68DLH17	50.9
	F 864	576	517	345	72DLH18	54.7
	F 883	589	490	327	68DLH18	57.7
	F 1017	678	556	371	68DLH19	64.2

F = FACTORED Load

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
120	F 348	232	172	115	60DLH12	27.6
	F 358	239	198	132	64DLH12	28.0
	F 423	282	208	139	60DLH13	32.4
	F 436	291	238	159	64DLH13	32.9
	F 438	292	265	177	68DLH13	32.7
	F 465	310	223	149	60DLH14	35.1
	F 498	332	256	171	64DLH14	35.6
	F 505	337	285	190	68DLH14	36.2
	F 567	378	319	213	68DLH15	41.4
	F 571	381	301	201	64DLH15	42.4
	F 651	434	396	264	72DLH16	44.0
	F 672	448	375	250	68DLH16	47.6
	F 690	460	334	223	60DLH17	50.3
	F 738	492	382	255	64DLH17	50.6
	F 757	505	426	284	68DLH17	51.6
	F 796	531	378	252	60DLH18	57.1
	F 858	572	508	339	72DLH18	57.3
	F 876	584	481	321	68DLH18	58.8
	F 1009	673	547	365	68DLH19	64.2
121	F 342	228	169	113	60DLH12	27.6
	F 352	235	193	129	64DLH12	27.9
	F 415	277	202	135	60DLH13	32.4
	F 429	286	232	155	64DLH13	32.8
	F 435	290	261	174	68DLH13	32.6
	F 457	305	217	145	60DLH14	35.0
	F 489	326	249	166	64DLH14	35.6
	F 501	334	280	187	68DLH14	36.2
	F 541	361	256	171	60DLH15	42.3
	F 562	375	294	196	64DLH15	42.4
	F 589	393	285	190	60DLH16	45.9
	F 645	430	390	260	72DLH16	44.0
	F 666	444	369	246	68DLH16	47.5
	F 679	453	325	217	60DLH17	50.2
	F 726	484	372	248	64DLH17	50.7
	F 751	501	420	280	68DLH17	51.5
	F 783	522	369	246	60DLH18	56.9
	F 850	567	501	334	72DLH18	57.3
	F 868	579	474	316	68DLH18	58.4
	F 997	665	568	379	72DLH19	64.2
	F 1000	667	538	359	68DLH19	65.0
122	F 346	231	187	125	64DLH12	28.2
	F 421	281	228	152	64DLH13	32.9
	F 432	288	256	171	68DLH13	32.6
	F 481	321	243	162	64DLH14	35.5
	F 483	322	291	194	72DLH14	35.4
	F 498	332	276	184	68DLH14	36.2
	F 553	369	325	217	72DLH15	41.2
	F 558	372	309	206	68DLH15	41.8
	F 640	427	384	256	72DLH16	44.0
	F 714	476	364	243	64DLH17	50.7
	F 720	480	436	291	72DLH17	51.0

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
122 (cont.)	F 745	497	412	275	68DLH17	51.5
	F 823	549	411	274	64DLH18	57.7
	F 843	562	492	328	72DLH18	57.3
	F 862	575	466	311	68DLH18	61.6
	F 988	659	559	373	72DLH19	64.3
	F 993	662	529	353	68DLH19	65.0
123	F 342	228	183	122	64DLH12	28.1
	F 415	277	222	148	64DLH13	32.9
	F 426	284	252	168	68DLH13	32.6
	F 474	316	237	158	64DLH14	35.5
	F 480	320	286	191	72DLH14	35.4
	F 490	327	268	179	68DLH14	36.1
	F 549	366	319	213	72DLH15	41.3
	F 634	423	376	251	72DLH16	43.9
	F 702	468	355	237	64DLH17	50.7
	F 714	476	429	286	72DLH17	51.1
	F 733	489	402	268	68DLH17	51.4
	F 810	540	400	267	64DLH18	57.7
	F 837	558	484	323	72DLH18	57.1
	F 849	566	456	304	68DLH18	61.6
	F 981	654	550	367	72DLH19	64.2
124	F 336	224	178	119	64DLH12	28.0
	F 409	273	216	144	64DLH13	32.8
	F 418	279	246	164	68DLH13	32.5
	F 466	311	231	154	64DLH14	35.7
	F 475	317	282	188	72DLH14	36.1
	F 483	322	262	175	68DLH14	36.1
	F 537	358	273	182	64DLH15	42.5
	F 540	360	294	196	68DLH15	41.8
	F 544	363	315	210	72DLH15	42.1
	F 630	420	370	247	72DLH16	44.0
	F 691	461	346	231	64DLH17	50.8
	F 708	472	421	281	72DLH17	50.9
	F 721	481	393	262	68DLH17	51.4
	F 829	553	477	318	72DLH18	57.6
	F 835	557	445	297	68DLH18	61.6
	F 961	641	504	336	68DLH19	64.7
	F 973	649	541	361	72DLH19	64.3
125	F 331	221	174	116	64DLH12	28.0
	F 403	269	211	141	64DLH13	32.8
	F 412	275	238	159	68DLH13	32.5
	F 459	306	226	151	64DLH14	35.7
	F 471	314	277	185	72DLH14	36.0
	F 475	317	256	171	68DLH14	36.2
	F 531	354	286	191	68DLH15	41.7
	F 540	360	310	207	72DLH15	42.1
	F 624	416	364	243	72DLH16	43.4
	F 681	454	339	226	64DLH17	50.8
	F 702	468	415	277	72DLH17	50.9
	F 711	474	384	256	68DLH17	51.3
	F 823	549	469	313	72DLH18	57.5

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
125 (cont.)	F 946	631	492	328	68DLH19	64.5
	F 964	643	532	355	72DLH19	64.3
126	F 327	218	171	114	64DLH12	27.9
	F 396	264	205	137	64DLH13	32.8
	F 406	271	232	155	68DLH13	32.5
	F 451	301	220	147	64DLH14	35.7
	F 468	312	273	182	72DLH14	36.1
	F 522	348	280	187	68DLH15	41.6
	F 535	357	304	203	72DLH15	42.2
	F 582	388	289	193	64DLH16	46.7
	F 619	413	360	240	72DLH16	47.2
	F 669	446	330	220	64DLH17	50.7
	F 700	467	373	249	68DLH17	51.4
	F 816	544	462	308	72DLH18	58.4
	F 931	621	480	320	68DLH19	64.5
	F 957	638	523	349	72DLH19	64.3
127	F 321	214	166	111	64DLH12	27.9
	F 390	260	201	134	64DLH13	32.7
	F 400	267	228	152	68DLH13	32.4
	F 444	296	214	143	64DLH14	35.7
	F 463	309	268	179	72DLH14	36.1
	F 514	343	273	182	68DLH15	41.6
	F 531	354	300	200	72DLH15	42.2
	F 573	382	283	189	64DLH16	46.7
	F 615	410	354	236	72DLH16	48.0
	F 658	439	322	215	64DLH17	50.4
	F 690	460	366	244	68DLH17	51.4
	F 691	461	402	268	72DLH17	52.1
	F 810	540	454	303	72DLH18	57.8
	F 916	611	469	313	68DLH19	64.3
	F 949	633	516	344	72DLH19	64.2
128	F 316	211	163	109	64DLH12	27.9
	F 385	257	196	131	64DLH13	32.7
	F 394	263	223	149	68DLH13	32.3
	F 438	292	210	140	64DLH14	35.7
	F 454	303	238	159	68DLH14	36.1
	F 460	307	264	176	72DLH14	36.3
	F 505	337	267	178	68DLH15	41.6
	F 528	352	295	197	72DLH15	42.7
	F 564	376	276	184	64DLH16	46.3
	F 610	407	348	232	72DLH16	47.9
	F 648	432	315	210	64DLH17	50.4
	F 679	453	357	238	68DLH17	51.3
	F 685	457	396	264	72DLH17	51.6
	F 804	536	447	298	72DLH18	58.1
	F 901	601	457	305	68DLH19	64.4
	F 942	628	507	338	72DLH19	65.2
129	F 312	208	159	106	64DLH12	27.9
	F 379	253	192	128	64DLH13	32.8
	F 388	259	217	145	68DLH13	32.4
	F 430	287	204	136	64DLH14	35.4

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
129 (cont.)	F 457	305	261	174	72DLH14	36.2
	F 498	332	261	174	68DLH15	41.6
	F 523	349	291	194	72DLH15	42.7
	F 555	370	270	180	64DLH16	46.0
	F 604	403	343	229	72DLH16	47.8
	F 639	426	307	205	64DLH17	50.4
	F 669	446	348	232	68DLH17	51.1
	F 681	454	390	260	72DLH17	51.5
	F 736	491	348	232	64DLH18	60.9
	F 774	516	394	263	68DLH18	61.1
	F 798	532	441	294	72DLH18	61.4
	F 888	592	447	298	68DLH19	64.1
	F 934	623	499	333	72DLH19	65.2
130	F 382	255	213	142	68DLH13	32.3
	F 441	294	228	152	68DLH14	36.2
	F 454	303	256	171	72DLH14	37.1
	F 490	327	255	170	68DLH15	41.4
	F 520	347	286	191	72DLH15	42.7
	F 601	401	337	225	72DLH16	47.8
	F 658	439	342	228	68DLH17	51.0
	F 676	451	384	256	72DLH17	51.5
	F 762	508	385	257	68DLH18	61.1
	F 792	528	433	289	72DLH18	61.3
	F 874	583	436	291	68DLH19	64.5
	F 928	619	492	328	72DLH19	69.4
131	F 378	252	207	138	68DLH13	32.7
	F 435	290	222	148	68DLH14	36.5
	F 447	298	250	167	72DLH14	37.1
	F 483	322	249	166	68DLH15	41.3
	F 513	342	280	187	72DLH15	42.6
	F 592	395	328	219	72DLH16	47.7
	F 649	433	333	222	68DLH17	51.0
	F 667	445	375	250	72DLH17	51.5
	F 751	501	376	251	68DLH18	61.1
	F 780	520	424	283	72DLH18	61.0
	F 861	574	427	285	68DLH19	64.5
	F 913	609	481	321	72DLH19	69.4
132	F 372	248	202	135	68DLH13	32.6
	F 441	294	244	163	72DLH14	37.1
	F 475	317	243	162	68DLH15	41.7
	F 504	336	274	183	72DLH15	42.6
	F 585	390	321	214	72DLH16	47.7
	F 640	427	325	217	68DLH17	51.4
	F 657	438	367	245	72DLH17	51.5
	F 739	493	369	246	68DLH18	61.2
	F 768	512	414	276	72DLH18	60.9
	F 847	565	417	278	68DLH19	69.1
	F 900	600	469	313	72DLH19	69.2
133	F 366	244	199	133	68DLH13	32.6
	F 421	281	211	141	68DLH14	36.1
	F 435	290	238	159	72DLH14	37.1

ECONOMICAL LOAD TABLES

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
133 (cont.)	F 468	312	237	158	68DLH15	41.5
	F 496	331	267	178	72DLH15	42.6
	F 576	384	313	209	72DLH16	47.6
	F 630	420	318	212	68DLH17	51.1
	F 648	432	358	239	72DLH17	51.5
	F 729	486	360	240	68DLH18	61.1
	F 757	505	405	270	72DLH18	61.3
	F 835	557	408	272	68DLH19	69.0
	F 886	591	459	306	72DLH19	69.2
134	F 361	241	195	130	68DLH13	32.6
	F 415	277	207	138	68DLH14	36.1
	F 427	285	232	155	72DLH14	37.0
	F 462	308	232	155	68DLH15	41.5
	F 489	326	261	174	72DLH15	42.4
	F 567	378	307	205	72DLH16	47.7
	F 621	414	312	208	68DLH17	51.0
	F 639	426	349	233	72DLH17	51.5
	F 718	479	351	234	68DLH18	61.1
	F 745	497	397	265	72DLH18	61.2
	F 822	548	399	266	68DLH19	64.7
	F 873	582	450	300	72DLH19	69.2
135	F 355	237	190	127	68DLH13	32.6
	F 421	281	228	152	72DLH14	36.0
	F 454	303	228	152	68DLH15	41.5
	F 483	322	256	171	72DLH15	42.3
	F 559	373	300	200	72DLH16	47.6
	F 612	408	304	203	68DLH17	50.8
	F 630	420	342	228	72DLH17	51.5
	F 708	472	345	230	68DLH18	61.0
	F 735	490	387	258	72DLH18	61.2
	F 810	540	390	260	68DLH19	64.6
	F 859	573	439	293	72DLH19	69.1
136	F 351	234	186	124	68DLH13	32.6
	F 415	277	223	149	72DLH14	35.7
	F 448	299	222	148	68DLH15	41.5
	F 475	317	250	167	72DLH15	42.3
	F 552	368	294	196	72DLH16	47.5
	F 604	403	297	198	68DLH17	50.7
	F 621	414	336	224	72DLH17	51.3
	F 697	465	337	225	68DLH18	61.1
	F 724	483	378	252	72DLH18	61.2
	F 798	532	381	254	68DLH19	64.6
	F 847	565	429	286	72DLH19	69.2
137	F 346	231	181	121	68DLH13	32.3
	F 399	266	195	130	68DLH14	36.1
	F 411	274	219	146	72DLH14	36.9
	F 441	294	217	145	68DLH15	41.3
	F 468	312	244	163	72DLH15	42.3
	F 544	363	286	191	72DLH16	47.5
	F 595	397	291	194	68DLH17	50.7
	F 612	408	327	218	72DLH17	51.3

F = FACTORED Load

Joist Span (ft.)	Total Load (plf) Factored LRFD	Total Load (plf) Service ASD	Live Load (plf) 1/240	Live Load (plf) 1/360	Joist Designation	Joist Wgt. (plf)
137 (cont.)	F 688	459	328	219	68DLH18	61.1
	F 718	479	370	247	72DLH18	61.3
	F 787	525	372	248	68DLH19	64.6
	F 835	557	420	280	72DLH19	68.9
138	F 405	270	214	143	72DLH14	36.8
	F 462	308	240	160	72DLH15	42.4
	F 537	358	282	188	72DLH16	50.8
	F 603	402	319	213	72DLH17	51.4
	F 705	470	363	242	72DLH18	61.4
	F 823	549	411	274	72DLH19	68.8
139	F 399	266	208	139	72DLH14	36.7
	F 454	303	234	156	72DLH15	42.3
	F 529	353	274	183	72DLH16	50.5
	F 595	397	313	209	72DLH17	52.0
	F 694	463	354	236	72DLH18	61.3
	F 811	541	402	268	72DLH19	68.6
140	F 393	262	204	136	72DLH14	36.8
	F 448	299	228	152	72DLH15	42.4
	F 522	348	268	179	72DLH16	50.9
	F 586	391	307	205	72DLH17	51.4
	F 685	457	346	231	72DLH18	61.5
	F 799	533	394	263	72DLH19	69.0
141	F 388	259	199	133	72DLH14	36.8
	F 442	295	225	150	72DLH15	42.4
	F 514	343	262	175	72DLH16	50.9
	F 579	386	300	200	72DLH17	51.4
	F 675	450	340	227	72DLH18	61.4
	F 789	526	385	257	72DLH19	68.8
142	F 382	255	196	131	72DLH14	36.7
	F 436	291	220	147	72DLH15	42.4
	F 507	338	256	171	72DLH16	50.8
	F 571	381	294	196	72DLH17	51.4
	F 666	444	333	222	72DLH18	61.2
	F 777	518	376	251	72DLH19	68.7
143	F 378	252	192	128	72DLH14	36.7
	F 429	286	214	143	72DLH15	42.4
	F 501	334	253	169	72DLH16	50.8
	F 564	376	286	191	72DLH17	51.4
	F 657	438	325	217	72DLH18	61.2
	F 766	511	370	247	72DLH19	68.5
144	F 372	248	187	125	72DLH14	36.7
	F 423	282	210	140	72DLH15	42.4
	F 493	329	247	165	72DLH16	50.8
	F 556	371	282	188	72DLH17	51.3
	F 648	432	318	212	72DLH18	61.2
	F 756	504	361	241	72DLH19	68.6
145	F 367	245	184	123	72DLH14	36.6
	F 418	279	205	137	72DLH15	42.3
	F 487	325	241	161	72DLH16	50.7
	F 549	366	276	184	72DLH17	51.4
	F 639	426	313	209	72DLH18	60.9
	F 745	497	354	236	72DLH19	68.5

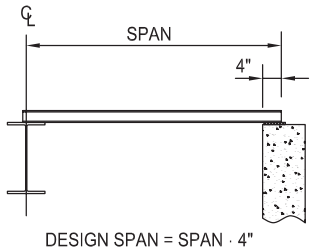
JOIST SUBSTITUTES

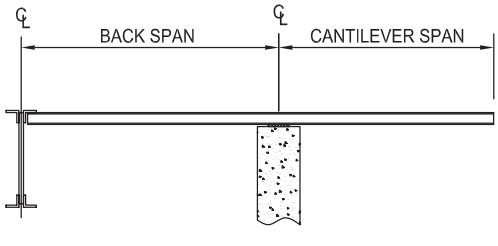
LRFD SIMPLE SPAN LOAD TABLE							
JS TYPE	**2.5JS1**	**2.5JS2**	**2.5JS3**	**2.5JS4**	**2.5JS5**	**2.5JS6**	**2.5JS7**
(SJI) K TYPE	**2.5K1**		**2.5K2**		**2.5K3**		
S in.^{3}	0.52	0.62	0.72	0.84	0.97	1.2	1.7
I in.^{4}	0.65	0.78	0.89	1.1	1.2	1.5	2.1
Span ft.-in.	**Factored Uniform Loads (plf)**						
4-0	825/550	825/550					
4-6	825/386	825/463	825/529	825/550			
5-0	717/275	825/338	825/376	825/465	825/507		
5-6	585/202	697.5/243	808.5/277	825/343	825/374	825/467	
6-0	486/153	561/189	672/210	778.5/260	825/283	825/354	
6-6	409.5/119	489/143	568.5/163	663/202	765/220	825/275	825/385
7-0	351/94	405/116	486/129	562.5/160	654/174	810/218	825/304
7-6	303/76	361.5/91	420/104	490.5/128	567/140	700.5/175	825/245
8-0	265.5/62	306/76	367.5/85	426/105	495/114	612/143	825/200
8-6	234/51	279/62	324/70	378/87	436.5/95	540/118	765/166
9-0		247.5/51	288/59	336/73	387/79	480/99	679.5/139
9-6			256.5/50	300/61	346.5/67	429/84	607.5/117
10-0				270/52	312/57	385.5/71	546/100

The factored uniform loads shown in BLACK are based on Load and Resistance Factor Design.
The loads shown in RED are the allowable live loads for a deflection of 1/360 of the span.
To determine the allowable live loads for 1/240 deflection multiply the figures in RED by 1.5.

LRFD UNSUPPORTED CANTILEVER LOAD TABLE							
JS TYPE	**2.5JS1**	**2.5JS2**	**2.5JS3**	**2.5JS4**	**2.5JS5**	**2.5JS6**	**2.5JS7**
S in.^{3}	0.52	0.62	0.72	0.84	0.97	1.2	1.7
I in.^{4}	0.65	0.78	0.89	1.1	1.2	1.5	2.1
Cant. Span ft.-in.	**Cantilever Span Factored Uniform Loads (plf)**						
2-0	825	825	825				
2-6	624	744	864	825	825	825	
3-0	433.5	516	600	700.5	808.5	825	825
3-6	318	379.5	441	514.5	594	735	825
4-0	244.5	291	337.5	394.5	454.5	562.5	796.5
4-6	192	229.5	267	310.5	360	444	630
5-0	156	186	216	252	291	360	510
5-6		153	178.5	208.5	240	297	421.5
6-0			150	175.5	202.5	250.5	354

The factored uniform loads shown are based on Load and Resistance Factor Design.
Note: When calculating the actual live load deflection at the end of the cantilever be sure to consider the length of the back span. If the back span length is greater than 2.4 X the cantilever span, then the capacity of the back span will need to be investigated.





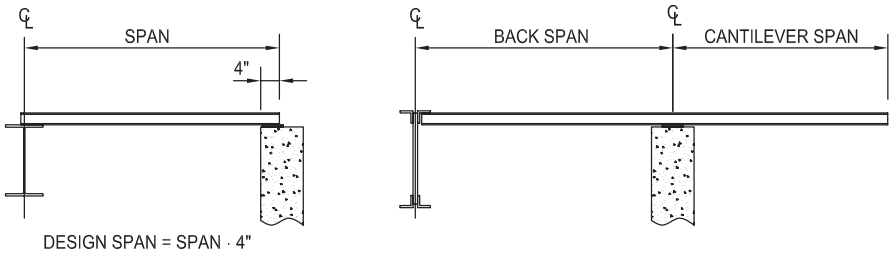
JOIST SUBSTITUTES

ASD SIMPLE SPAN LOAD TABLE							
JS TYPE	**2.5JS1**	**2.5JS2**	**2.5JS3**	**2.5JS4**	**2.5JS5**	**2.5JS6**	**2.5JS7**
(SJI) K TYPE	**2.5K1**		**2.5K2**		**2.5K3**		
S in.^{3}	0.52	0.62	0.72	0.84	0.97	1.2	1.7
I in.^{4}	0.65	0.78	0.89	1.1	1.2	1.5	2.1
Span ft.-in.	**Allowable Loads (plf)**						
4-0	550/550	550/550					
4-6	550/386	550/463	550/529	550/550			
5-0	478/275	550/338	550/376	550/465	550/507		
5-6	390/202	465/243	539/277	550/343	550/374	550/467	
6-0	324/153	374/189	448/210	519/260	550/283	550/354	
6-6	273/119	326/143	379/163	442/202	510/220	550/275	550/385
7-0	234/94	270/116	324/129	375/160	436/174	540/218	550/304
7-6	202/76	241/91	280/104	327/128	378/140	467/175	550/245
8-0	177/62	204/76	245/85	284/105	330/114	408/143	550/200
8-6	156/51	186/62	216/70	252/87	291/95	360/118	510/166
9-0		165/51	192/59	224/73	258/79	320/99	453/139
9-6			171/50	200/61	231/67	286/84	405/117
10-0				180/52	208/57	257/71	364/100

The allowable loads shown in BLACK are based on Allowable Stress Design.
The loads shown in RED are the allowable live loads for a deflection of 1/360 of the span.
To determine the allowable live loads for 1/240 deflection multiply the figures in RED by 1.5.

ASD UNSUPPORTED CANTILEVER LOAD TABLE							
JS TYPE	**2.5JS1**	**2.5JS2**	**2.5JS3**	**2.5JS4**	**2.5JS5**	**2.5JS6**	**2.5JS7**
S in.^{3}	0.52	0.62	0.72	0.84	0.97	1.2	1.7
I in.^{4}	0.65	0.78	0.89	1.1	1.2	1.5	2.1
Cant. Span ft.-in.	**Cantilever Span Allowable Loads (plf)**						
2-0	550	550	550				
2-6	416	496	576	550	550	550	
3-0	289	344	400	467	539	550	550
3-6	212	253	294	343	396	490	550
4-0	163	194	225	263	303	375	531
4-6	128	153	178	207	240	296	420
5-0	104	124	144	168	194	240	340
5-6		102	119	139	160	198	281
6-0			100	117	135	167	236

The allowable loads shown are based on Allowable Stress Design.
Note: When calculating the actual live load deflection at the end of the cantilever be sure to consider the length of the back span. If the back span length is greater than 2.4 X the cantilever span, then the capacity of the back span will need to be investigated.



LRFD

STANDARD LOAD TABLE FOR KCS OPEN WEB STEEL JOISTS
Based on a 50 ksi Maximum Yield Strength

JOIST DESIGNATION	DEPTH (inches)	MOMENT CAPACITY (inch-kips)	SHEAR CAPACITY* (lbs)	APPROX. WEIGHT** (lbs/ft)	GROSS MOMENT OF INERTIA (in.^{4})	BRIDGING TABLE SECTION NUMBER
10KCS1	10	258	3000	6.0	29	1
10KCS2	10	337	3750	7.5	37	1
10KCS3	10	444	4500	10.0	47	1
12KCS1	12	313	3600	6.0	43	3
12KCS2	12	411	4500	8.0	55	5
12KCS3	12	543	5250	10.0	71	5
14KCS1	14	370	4350	6.5	59	4
14KCS2	14	486	5100	8.0	77	6
14KCS3	14	642	5850	10.0	99	6
16KCS2	16	523	6000	8.5	99	6
16KCS3	16	705	7200	10.5	128	9
16KCS4	16	1080	7950	14.5	192	9
16KCS5	16	1401	8700	18.0	245	9
18KCS2	18	592	7050	9.0	127	6
18KCS3	18	798	7800	11.0	164	9
18KCS4	18	1225	8550	15.0	247	10
18KCS5	18	1593	9300	18.5	316	10
20KCS2	20	663	7800	9.5	159	6
20KCS3	20	892	9000	11.5	205	9
20KCS4	20	1371	11850	16.5	308	10
20KCS5	20	1786	12600	20.0	396	10
22KCS2	22	732	8850	10.0	194	6
22KCS3	22	987	9900	12.5	251	9
22KCS4	22	1518	11850	16.5	377	11
22KCS5	22	1978	12900	20.5	485	11
24KCS2	24	801	9450	10.0	232	6
24KCS3	24	1080	10800	12.5	301	9
24KCS4	24	1662	12600	16.5	453	12
24KCS5	24	2172	13350	20.5	584	12
26KCS2	26	870	9900	10.0	274	6
26KCS3	26	1174	11700	12.5	355	9
26KCS4	26	1809	12750	16.5	536	12
26KCS5	26	2364	13800	20.5	691	12
28KCS2	28	939	10350	10.5	320	6
28KCS3	28	1269	12000	12.5	414	9
28KCS4	28	1954	12750	16.5	626	12
28KCS5	28	2556	13800	20.5	808	12
30KCS3	30	1362	12000	13.0	478	9
30KCS4	30	2100	12750	16.5	722	12
30KCS5	30	2749	13800	21.0	934	12

*MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY IS 825 PLF AND SINGLE CONCENTRATED LOAD CANNOT EXCEED SHEAR CAPACITY
**DOES NOT INCLUDE ACCESSORIES

ASD

STANDARD LOAD TABLE FOR KCS OPEN WEB STEEL JOISTS
Based on a 50 ksi Maximum Yield Strength

JOIST DESIGNATION	DEPTH (inches)	MOMENT CAPACITY* (inch-kips)	SHEAR CAPACITY* (lbs)	APPROX. WEIGHT** (lbs/ft)	GROSS MOMENT OF INERTIA (in.^{4})	BRIDGING TABLE SECTION NUMBER
10KCS1	10	172	2000	6.0	29	1
10KCS2	10	225	2500	7.5	37	1
10KCS3	10	296	3000	10.0	47	1
12KCS1	12	209	2400	6.0	43	3
12KCS2	12	274	3000	8.0	55	5
12KCS3	12	362	3500	10.0	71	5
14KCS1	14	247	2900	6.5	59	4
14KCS2	14	324	3400	8.0	77	6
14KCS3	14	428	3900	10.0	99	6
16KCS2	16	349	4000	8.5	99	6
16KCS3	16	470	4800	10.5	128	9
16KCS4	16	720	5300	14.5	192	9
16KCS5	16	934	5800	18.0	245	9
18KCS2	18	395	4700	9.0	127	6
18KCS3	18	532	5200	11.0	164	9
18KCS4	18	817	5700	15.0	247	10
18KCS5	18	1062	6200	18.5	316	10
20KCS2	20	442	5200	9.5	159	6
20KCS3	20	595	6000	11.5	205	9
20KCS4	20	914	7900	16.5	308	10
20KCS5	20	1191	8400	20.0	396	10
22KCS2	22	488	5900	10.0	194	6
22KCS3	22	658	6600	12.5	251	9
22KCS4	22	1012	7900	16.5	377	11
22KCS5	22	1319	8600	20.5	485	11
24KCS2	24	534	6300	10.0	232	6
24KCS3	24	720	7200	12.5	301	9
24KCS4	24	1108	8400	16.5	453	12
24KCS5	24	1448	8900	20.5	584	12
26KCS2	26	580	6600	10.0	274	6
26KCS3	26	783	7800	12.5	355	9
26KCS4	26	1206	8500	16.5	536	12
26KCS5	26	1576	9200	20.5	691	12
28KCS2	28	626	6900	10.5	320	6
28KCS3	28	846	8000	12.5	414	9
28KCS4	28	1303	8500	16.5	626	12
28KCS5	28	1704	9200	20.5	808	12
30KCS3	30	908	8000	13.0	478	9
30KCS4	30	1400	8500	16.5	722	12
30KCS5	30	1833	9200	21.0	934	12

*MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY IS 550 PLF AND SINGLE CONCENTRATED LOAD CANNOT EXCEED SHEAR CAPACITY

**DOES NOT INCLUDE ACCESSORIES

LRFD

TOP CHORD EXTENSION LOAD TABLE (S TYPE)
Based on a Maximum Yield Strength of 50 ksi
Pounds per Linear Foot

TYPE	"S" ($in.^3$)	"I" ($in.^4$)	LENGTH (L1) 0'-6"	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"
S1	0.099	0.088	825 550	544 363	267 127	157 58					
S2	0.127	0.138	825 550	700 422	343 200	202 91					
S3	0.144	0.156	825 550	793 550	388 226	229 104					
S4	0.160	0.172	825 550	825 550	432 249	255 113	168 60				
S5	0.176	0.188	825 550	825 550	474 272	280 124	184 66				
S6	0.192	0.204	825 550	825 550	517 295	306 134	202 72				
S7	0.241	0.306	825 550	825 550	649 443	384 201	253 108	180 64			
S8	0.266	0.332	825 550	825 550	717 481	424 219	280 117	198 70			
S9	0.288	0.358	825 550	825 550	777 519	459 236	303 126	214 75	160 48		
S10	0.380	0.544	825 550	825 550	825 550	606 359	400 192	283 115	211 74	163 50	
S11	0.438	0.622	825 550	825 550	825 550	699 410	460 220	327 131	243 84	189 57	150 41
S12	0.494	0.696	825 550	825 550	825 550	789 459	520 246	369 147	274 94	213 64	169 45

LRFD

TOP CHORD EXTENSION LOAD TABLE (R TYPE)
Based on a Maximum Yield Strength of 50 ksi
Pounds per Linear Foot

TYPE	"S" ($in.^3$)	"I" ($in.^4$)	LENGTH (L1) 0'-6"	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"
R1	0.895	1.119	825 550	825 550	825 550	825 550	825 396	669 236	498 152	385 103	307 73	250 54	208 41	175 32
R2	0.923	1.157	825 550	825 550	825 550	825 550	825 409	690 244	514 157	399 107	318 76	259 56	216 42	181 33
R3	1.039	1.299	825 550	825 550	825 550	825 550	825 459	777 274	579 176	448 120	358 85	292 63	243 47	205 37
R4	1.147	1.433	825 550	825 550	825 550	825 550	825 507	825 302	639 195	495 132	394 94	321 69	267 52	225 41
R5	1.249	1.561	825 550	825 550	825 550	825 550	825 550	825 329	696 212	538 144	429 103	349 75	291 57	246 44
R6	1.352	1.690	825 550	825 550	825 550	825 550	825 550	825 357	753 230	583 156	465 111	379 82	315 62	265 48
R7	1.422	1.802	825 550	825 550	825 550	825 550	825 550	825 380	792 245	613 167	489 119	399 87	331 66	279 51
R8	1.558	1.948	825 550	825 550	825 550	825 550	825 550	825 411	825 265	672 180	535 128	436 94	363 71	306 55
R9	1.673	2.091	825 550	825 550	825 550	825 550	825 550	825 442	825 284	721 194	576 138	469 101	390 77	328 59
R10	1.931	2.414	825 550	825 550	825 550	825 550	825 550	825 510	825 328	825 224	664 159	541 117	450 89	379 69
R11	2.183	2.729	825 550	825 550	825 550	825 550	825 550	825 550	825 371	825 253	751 180	612 132	508 100	430 78
R12	2.413	3.016	825 550	825 550	825 550	825 550	825 550	825 550	825 410	825 279	825 199	676 146	562 111	475 86

ASD

TOP CHORD EXTENSION LOAD TABLE (S TYPE)
Based on a Maximum Yield Strength of 50 ksi
Pounds per Linear Foot

TYPE	"S" ($in.^3$)	"I" ($in.^4$)	LENGTH (L1) 0'-6"	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"
S1	0.099	0.088	550 550	363 363	178 127	105 58					
S2	0.127	0.138	550 550	467 422	229 200	135 91					
S3	0.144	0.156	550 550	529 510	259 226	153 104					
S4	0.160	0.172	550 550	550 550	288 249	170 113	112 60				
S5	0.176	0.188	550 550	550 550	316 272	187 124	123 66				
S6	0.192	0.204	550 550	550 550	345 295	204 134	135 72				
S7	0.241	0.306	550 550	550 550	433 433	256 201	169 108	120 64			
S8	0.266	0.332	550 550	550 550	478 481	283 219	187 117	132 70			
S9	0.288	0.358	550 550	550 550	518 518	306 236	202 126	143 75	107 48		
S10	0.380	0.544	550 550	550 550	550 550	404 359	267 192	189 115	141 74	109 50	
S11	0.438	0.622	550 550	550 550	550 550	466 410	307 220	218 131	162 84	126 57	100 41
S12	0.494	0.696	550 550	550 550	550 550	526 459	347 246	246 147	183 94	142 64	113 45

ASD

TOP CHORD EXTENSION LOAD TABLE (R TYPE)
Based on a Maximum Yield Strength of 50 ksi
Pounds per Linear Foot

TYPE	"S" ($in.^3$)	"I" ($in.^4$)	LENGTH (L1) 0'-6"	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"
R1	0.895	1.119	550 550	550 550	550 550	550 550	550 396	446 236	332 152	257 103	205 73	167 54	139 41	117 32
R2	0.923	1.157	550 550	550 550	550 550	550 550	550 409	460 244	343 157	266 107	212 76	173 56	144 42	121 33
R3	1.039	1.299	550 550	550 550	550 550	550 550	550 459	518 274	386 176	299 120	239 85	195 63	162 47	137 37
R4	1.147	1.433	550 550	550 550	550 550	550 550	550 507	550 302	426 195	330 132	263 94	214 69	178 52	150 41
R5	1.249	1.561	550 550	550 550	550 550	550 550	550 550	550 329	464 212	359 144	286 103	233 75	194 57	164 44
R6	1.352	1.690	550 550	550 550	550 550	550 550	550 550	550 357	502 230	389 156	310 111	253 82	210 62	177 48
R7	1.422	1.802	550 550	550 550	550 550	550 550	550 550	550 380	528 245	409 167	326 119	266 87	221 66	186 51
R8	1.558	1.948	550 550	550 550	550 550	550 550	550 550	550 411	550 265	448 180	357 128	291 94	242 71	204 55
R9	1.673	2.091	550 550	550 550	550 550	550 550	550 550	550 442	550 284	481 194	384 138	313 101	260 77	219 59
R10	1.931	2.414	550 550	550 550	550 550	550 550	550 550	550 510	550 328	550 224	443 159	361 117	300 89	253 69
R11	2.183	2.729	550 550	550 550	550 550	550 550	550 550	550 550	550 371	550 253	501 180	408 132	339 100	287 78
R12	2.413	3.016	550 550	550 550	550 550	550 550	550 550	550 550	550 410	550 279	550 199	451 146	375 111	317 86

TOP CHORD EXTENSIONS AND EXTENDED ENDS, K-SERIES

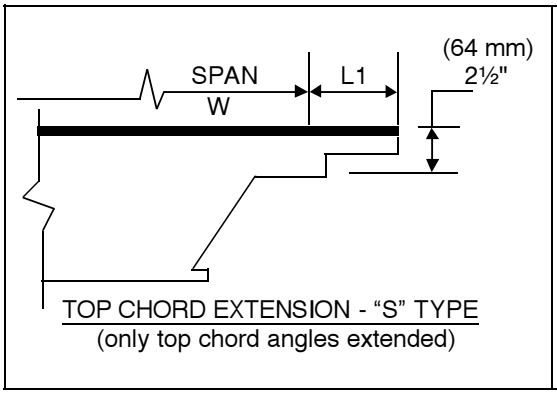
Joist extensions are commonly furnished to support a variety of overhang conditions. The two types are pictured below. The first is the TOP CHORD EXTENSION or "S" TYPE, which has only the top chord angles extended. The second is the EXTENDED END or "R" TYPE in which the standard 2 1/2 in., (64 mm) end bearing depth is maintained over the entire length of the extension. The "S" TYPE extension is so designated because of its Simple nature whereas the "R" TYPE involves Reinforcing the top chord angles. The **specifying professional** should be aware that an "S" TYPE is more economical and should be specified whenever possible.

The following load tables for **K**-Series TOP CHORD EXTENSIONS and EXTENDED ENDS for **LRFD** and **ASD** methods of design and listed in U.S. Customary and Metric units, have been developed as an aid to the **specifying professional**. The black number in the tables is the maximum allowable uniform load in pounds per linear foot (kiloNewton/Meter). The red number is the uniform load which will produce an approximate deflection of L1/240, where L1 is the length of the extension. The load tables are applicable for uniform loads only. If there are concentrated loads and/or non-uniform loads, a loading diagram must be provided by the **specifying professional** on the structural drawings. In cases where it is not possible to meet specific job requirements with a 2 1/2 in. (64 mm) deep "R" type extension (refer to "S" and "I" values in the Extended End Load Table), the depth of the extension must be increased to provide greater load-carrying capacity. If the loading diagram for any condition is not shown, the joist manufacturer will design the extension to support the uniform load indicated in the **K**-Series Joist Load Table for the span of the joist.

When TOP CHORD EXTENSIONS or EXTENDED ENDS are specified, the allowable deflection and the bracing requirements must be considered by the **specifying professional**.

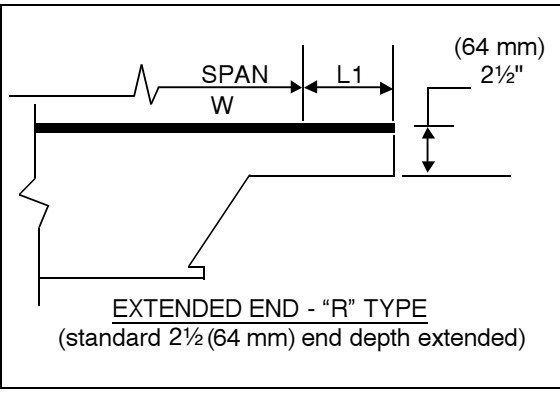
It should be noted that an "R" TYPE extension must be specified when building details dictate a 2 1/2 in., (64 mm) depth at the end of the extension. In the absence of specific instructions, the joist manufacturer may provide either type.

TOP CHORD EXTENSION



TOP CHORD EXTENSION - "S" TYPE
(only top chord angles extended)

EXTENDED END



EXTENDED END - "R" TYPE
(standard 2½ (64 mm) end depth extended)

W = Uniform Load
L1 = Length of Extension
SPAN = See K-Series Load Table for definition of Span

STANDARD LRFD LOAD TABLE

OPEN WEB STEEL JOISTS, K-SERIES

Based on a 50 ksi Maximum Yield Strength
Adopted by the Steel Joist Institute May 1, 2000
Revised to November 10, 2003 – Effective March 01, 2005

The black figures in the following table give the TOTAL safe factored uniformly distributed load-carrying capacities, in pounds per linear foot, of **LRFD K-Series** Steel Joists. The weight of factored DEAD loads, including the joists, must be deducted to determine the factored LIVE load-carrying capacities of the joists. Sloped parallel-chord joists shall use span as defined by the length along the slope.

The figures shown in **RED** in this load table are the unfactored nominal 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 **RED** by 1.5. In no case shall the TOTAL load capacity of the joists be exceeded.

The approximate joist weights per linear foot shown in these tables do not include accessories.

The approximate moment of inertia of the joist, in inches^4 is;

$I_j = 26.767(W_{LL})(L^3)(10^{-6})$, where W_{LL}= **RED** figure in the Load Table and L = (Span - 0.33) in feet.

For the proper handling of concentrated and/or varying loads, see Section 6.1 in the Code of Standard Practice for Steel Joists and Joist Girders.

Where the joist span exceeds the unshaded area of the Load Table, the row of bridging nearest the mid span shall be diagonal bridging with bolted connections at the chords and intersections.

LRFD

STANDARD LOAD TABLE FOR OPEN WEB STEEL JOISTS, K-SERIES
Based on a 50 ksi Maximum Yield Strength - Loads Shown in Pounds per Linear Foot (plf)

Joist Designation	8K1	10K1	12K1	12K3	12K5	14K1	14K3	14K4	14K6	16K2	16K3	16K4	16K5	16K6	16K7	16K9
Depth (in.)	8	10	12	12	12	14	14	14	14	16	16	16	16	16	16	16
Approx. Wt (lbs./ft.)	5.1	5.0	5.0	5.7	7.1	5.2	6.0	6.7	7.7	5.5	6.3	7.0	7.5	8.1	8.6	10.0
Span (ft.) ↓																
8	825 550															
9	825 550															
10	825 480	825 550														
11	798 377	825 542														
12	666 288	825 455	825 550	825 550	825 550											
13	565 225	718 363	825 510	825 510	825 510											
14	486 179	618 289	750 425	825 463	825 463	825 550	825 550	825 550	825 550							
15	421 145	537 234	651 344	814 428	825 434	766 475	825 507	825 507	825 507							
16	369 119	469 192	570 282	714 351	825 396	672 390	825 467	825 467	825 467	825 550	825 550	825 550	825 550	825 550	825 550	825 550
17		415 159	504 234	630 291	825 366	592 324	742 404	825 443	825 443	768 488	825 526	825 526	825 526	825 526	825 526	825 526
18		369 134	448 197	561 245	760 317	528 272	661 339	795 397	825 408	684 409	762 456	825 490	825 490	825 490	825 490	825 490
19		331 113	402 167	502 207	681 269	472 230	592 287	712 336	825 383	612 347	682 386	820 452	825 455	825 455	825 455	825 455
20		298 97	361 142	453 177	613 230	426 197	534 246	642 287	787 347	552 297	615 330	739 386	825 426	825 426	825 426	825 426
21			327 123	409 153	555 198	385 170	483 212	582 248	712 299	499 255	556 285	670 333	754 373	822 405	825 406	825 406
22			298 106	373 132	505 172	351 147	439 184	529 215	648 259	454 222	505 247	609 289	687 323	747 351	825 385	825 385
23			271 93	340 116	462 150	321 128	402 160	483 188	592 226	415 194	462 216	556 252	627 282	682 307	760 339	825 363
24			249 81	312 101	423 132	294 113	367 141	442 165	543 199	381 170	424 189	510 221	576 248	627 269	697 298	825 346
25						270 100	339 124	408 145	501 175	351 150	390 167	469 195	529 219	576 238	642 263	771 311
26						249 88	313 110	376 129	462 156	324 133	360 148	433 173	489 194	532 211	592 233	711 276
27						231 79	289 98	349 115	427 139	300 119	334 132	402 155	453 173	493 188	549 208	658 246
28						214 70	270 88	324 103	397 124	279 106	310 118	373 138	421 155	459 168	510 186	612 220
29										259 95	289 106	348 124	391 139	427 151	475 167	570 198
30										241 86	270 96	324 112	366 126	399 137	444 151	532 178
31										226 78	252 87	304 101	342 114	373 124	415 137	498 161
32										213 71	237 79	285 92	321 103	349 112	388 124	466 147

LRFD

STANDARD LOAD TABLE FOR OPEN WEB STEEL JOISTS, K-SERIES
Based on a 50 ksi Maximum Yield Strength - Loads Shown in Pounds per Linear Foot (plf)

Joist Designation	18K3	18K4	18K5	18K6	18K7	18K9	18K10	20K3	20K4	20K5	20K6	20K7	20K9	20K10	22K4	22K5	22K6	22K7	22K9	22K10	22K11
Depth (In.)	18	18	18	18	18	18	18	20	20	20	20	20	20	20	22	22	22	22	22	22	22
Approx. Wt. (lbs./ft.)	6.6	7.2	7.7	8.5	9	10.2	11.7	6.7	7.6	8.2	8.9	9.3	10.8	12.2	8	8.8	9.2	9.7	11.3	12.6	13.8
Span (ft.) ↓																					
18	825 550	825 550	825 550	825 550	825 550	825 550	825 550														
19	771 494	825 523	825 523	825 523	825 523	825 523	825 523														
20	694 423	825 490	825 490	825 490	825 490	825 490	825 490	775 517	825 550	825 550	825 550	825 550	825 550	825 550							
21	630 364	759 426	825 460	825 460	825 460	825 460	825 460	702 453	825 520	825 520	825 520	825 520	825 520	825 520							
22	573 316	690 370	777 414	825 438	825 438	825 438	825 438	639 393	771 461	825 490	825 490	825 490	825 490	825 490	825 548	825 548	825 548	825 548	825 548	825 548	825 548
23	523 276	630 323	709 362	774 393	825 418	825 418	825 418	583 344	703 402	793 451	825 468	825 468	825 468	825 468	777 491	825 518	825 518	825 518	825 518	825 518	825 518
24	480 242	577 284	651 318	709 345	789 382	825 396	825 396	535 302	645 353	727 396	792 430	825 448	825 448	825 448	712 431	804 483	825 495	825 495	825 495	825 495	825 495
25	441 214	532 250	600 281	652 305	727 337	825 377	825 377	493 266	594 312	669 350	729 380	811 421	825 426	825 426	657 381	739 427	805 464	825 474	825 474	825 474	825 474
26	408 190	492 222	553 249	603 271	672 299	807 354	825 361	456 236	549 277	618 310	673 337	750 373	825 405	825 405	606 338	682 379	744 411	825 454	825 454	825 454	825 454
27	378 169	454 198	513 222	558 241	622 267	747 315	825 347	421 211	508 247	573 277	624 301	694 333	825 389	825 389	561 301	633 337	688 367	768 406	825 432	825 432	825 432
28	351 151	423 177	477 199	519 216	577 239	694 282	822 331	391 189	472 221	532 248	579 269	645 298	775 353	825 375	522 270	588 302	640 328	712 364	825 413	825 413	825 413
29	327 136	394 159	444 179	483 194	538 215	646 254	766 298	364 170	439 199	495 223	540 242	601 268	723 317	825 359	486 242	547 272	597 295	664 327	798 387	825 399	825 399
30	304 123	367 144	414 161	451 175	502 194	603 229	715 269	340 153	411 179	462 201	504 218	561 242	675 286	799 336	453 219	511 245	556 266	619 295	745 349	825 385	825 385
31	285 111	343 130	387 146	421 158	469 175	564 207	669 243	318 138	384 162	433 182	471 198	525 219	631 259	748 304	424 198	478 222	520 241	580 267	697 316	825 369	825 369
32	267 101	322 118	363 132	396 144	441 159	529 188	627 221	298 126	360 147	406 165	442 179	492 199	592 235	702 276	397 180	448 201	489 219	544 242	654 287	775 337	823 355
33	252 92	303 108	342 121	372 131	414 145	498 171	589 201	280 114	339 134	381 150	415 163	463 181	556 214	660 251	373 164	421 183	459 199	511 221	615 261	729 307	798 334
34	237 84	285 98	321 110	349 120	390 132	468 156	555 184	264 105	318 122	358 137	391 149	435 165	523 195	621 229	352 149	397 167	432 182	481 202	579 239	687 280	774 314
35	223 77	268 90	303 101	330 110	367 121	441 143	523 168	249 96	300 112	339 126	369 137	411 151	493 179	585 210	331 137	373 153	408 167	454 185	546 219	648 257	741 292
36	211 70	253 82	286 92	312 101	348 111	417 132	495 154	235 88	283 103	319 115	348 125	388 139	466 164	553 193	313 126	354 141	385 153	429 169	516 201	612 236	700 269
37								222 81	268 95	303 106	330 115	367 128	441 151	523 178	297 116	334 130	364 141	406 156	487 185	579 217	663 247
38								211 74	255 87	286 98	312 106	348 118	418 139	496 164	280 107	316 119	345 130	384 144	462 170	549 200	628 228
39								199 69	241 81	271 90	297 98	330 109	397 129	471 151	267 98	300 110	327 120	364 133	438 157	520 185	595 211
40								190 64	229 75	258 84	282 91	313 101	376 119	447 140	253 91	285 102	310 111	346 123	417 146	495 171	565 195
41															241 85	271 95	295 103	330 114	396 135	471 159	538 181
42															229 79	259 88	282 96	313 106	378 126	448 148	513 168
43															219 73	247 82	268 89	300 99	360 117	427 138	489 157
44															208 68	235 76	256 83	286 92	343 109	408 128	466 146

LRFD

STANDARD LOAD TABLE FOR OPEN WEB STEEL JOISTS, K-SERIES
Based on a 50 ksi Maximum Yield Strength - Loads Shown in Pounds per Linear Foot (plf)

Joist Designation	24K4	24K5	24K6	24K7	24K8	24K9	24K10	24K12	26K5	26K6	26K7	26K8	26K9	26K10	26K12
Depth (In.)	24	24	24	24	24	24	24	24	26	26	26	26	26	26	26
Approx. Wt. (lbs./ft.)	8.4	9.3	9.7	10.1	11.5	12.0	13.1	16.0	9.8	10.6	10.9	12.1	12.2	13.8	16.6
Span (ft.) ↓															
24	780 516	825 544	825 544	825 544	825 544	825 544	825 544	825 544							
25	718 456	810 511	825 520	825 520	825 520	825 520	825 520	825 520							
26	663 405	748 453	814 493	825 499	825 499	825 499	825 499	825 499	813 535	825 541	825 541	825 541	825 541	825 541	825 541
27	615 361	693 404	754 439	825 479	825 479	825 479	825 479	825 479	753 477	820 519	825 522	825 522	825 522	825 522	825 522
28	571 323	643 362	700 393	781 436	825 456	825 456	825 456	825 456	699 427	762 464	825 501	825 501	825 501	825 501	825 501
29	531 290	600 325	652 354	727 392	804 429	825 436	825 436	825 436	651 384	709 417	790 463	825 479	825 479	825 479	825 479
30	496 262	559 293	609 319	679 353	750 387	816 419	825 422	825 422	607 346	661 377	738 417	816 457	825 459	825 459	825 459
31	465 237	523 266	570 289	636 320	702 350	765 379	825 410	825 410	568 314	619 341	690 378	763 413	825 444	825 444	825 444
32	435 215	490 241	535 262	595 290	658 318	717 344	823 393	823 393	534 285	580 309	648 343	715 375	778 407	823 431	823 431
33	409 196	462 220	502 239	559 265	619 289	673 313	798 368	798 368	501 259	546 282	609 312	672 342	732 370	798 404	798 404
34	385 179	435 201	472 218	526 242	582 264	634 286	753 337	774 344	472 237	514 257	573 285	633 312	688 338	774 378	774 378
35	363 164	409 184	445 200	496 221	549 242	598 262	709 308	751 324	445 217	484 236	540 261	597 286	649 310	751 356	751 356
36	343 150	387 169	421 183	469 203	519 222	565 241	670 283	730 306	420 199	457 216	510 240	564 263	613 284	729 334	730 334
37	324 138	366 155	399 169	444 187	490 205	534 222	634 260	711 290	397 183	433 199	483 221	534 242	580 262	690 308	711 315
38	307 128	346 143	378 156	421 172	465 189	507 204	601 240	691 275	376 169	411 184	457 204	505 223	550 241	654 284	691 299
39	292 118	328 132	358 144	399 159	441 174	480 189	570 222	673 261	357 156	390 170	433 188	480 206	522 223	619 262	673 283
40	277 109	312 122	340 133	379 148	420 161	456 175	541 206	657 247	340 145	370 157	412 174	456 191	496 207	589 243	657 269
41	264 101	297 114	324 124	361 137	399 150	435 162	516 191	640 235	322 134	352 146	393 162	433 177	472 192	561 225	640 256
42	252 94	283 106	309 115	343 127	379 139	414 151	490 177	625 224	307 125	336 136	373 150	412 164	450 178	534 210	625 244
43	240 88	270 98	294 107	328 118	363 130	394 140	468 165	609 213	294 116	319 126	357 140	394 153	429 166	508 195	610 232
44	229 82	258 92	280 100	313 110	346 121	376 131	447 154	580 199	280 108	306 118	340 131	376 143	409 155	486 182	597 222
45	219 76	246 86	268 93	298 103	330 113	360 122	427 144	555 185	268 101	291 110	325 122	360 133	391 145	465 170	583 212
46	208 71	235 80	256 87	286 97	316 106	345 114	408 135	531 174	256 95	279 103	310 114	343 125	375 135	444 159	570 203
47	199 67	225 75	246 82	274 90	303 99	330 107	391 126	508 163	246 89	267 96	298 107	328 117	358 127	426 149	553 192
48	192 63	216 70	235 77	262 85	291 93	316 101	375 118	487 153	235 83	256 90	285 100	315 110	343 119	408 140	529 180
49									225 78	246 85	274 94	303 103	330 112	391 131	508 169
50									216 73	235 80	262 89	291 97	316 105	375 124	487 159
51									208 69	226 75	252 83	279 91	304 99	361 116	469 150
52									199 65	217 71	243 79	268 86	292 93	346 110	451 142

LRFD

STANDARD LOAD TABLE FOR OPEN WEB STEEL JOISTS, K-SERIES
Based on a 50 ksi Maximum Yield Strength - Loads Shown in Pounds per Linear Foot (plf)

Joist Designation	28K6	28K7	28K8	28K9	28K10	28K12	30K7	30K8	30K9	30K10	30K11	30K12
Depth (In.)	28	28	28	28	28	28	30	30	30	30	30	30
Approx. Wt. (lbs./ft.)	11.4	11.8	12.7	13.0	14.3	17.1	12.3	13.2	13.4	15.0	16.4	17.6
Span (ft.) ↓												
28	822 541	825 543	825 543	825 543	825 543	825 543						
29	766 486	825 522	825 522	825 522	825 522	825 522						
30	715 439	796 486	825 500	825 500	825 500	825 500	825 543	825 543	825 543	825 543	825 543	825 543
31	669 397	745 440	825 480	825 480	825 480	825 480	801 508	825 520	825 520	825 520	825 520	825 520
32	627 361	699 400	772 438	823 463	823 463	823 463	751 461	823 500	823 500	823 500	823 500	823 500
33	589 329	657 364	726 399	790 432	798 435	798 435	706 420	780 460	798 468	798 468	798 468	798 468
34	555 300	618 333	684 364	744 395	774 410	774 410	664 384	735 420	774 441	774 441	774 441	774 441
35	523 275	583 305	645 333	702 361	751 389	751 389	627 351	693 384	751 415	751 415	751 415	751 415
36	495 252	550 280	609 306	663 332	730 366	730 366	592 323	654 353	712 383	730 392	730 392	730 392
37	468 232	522 257	576 282	627 305	711 344	711 344	559 297	619 325	673 352	711 374	711 374	711 374
38	444 214	493 237	546 260	594 282	691 325	691 325	531 274	586 300	639 325	691 353	691 353	691 353
39	420 198	469 219	519 240	564 260	670 306	673 308	504 253	556 277	606 300	673 333	673 333	673 333
40	399 183	445 203	492 222	535 241	636 284	657 291	478 234	529 256	576 278	657 315	657 315	657 315
41	379 170	424 189	468 206	510 224	606 263	640 277	454 217	502 238	547 258	640 300	640 300	640 300
42	361 158	403 175	445 192	486 208	576 245	625 264	433 202	480 221	522 240	619 282	625 284	625 284
43	345 147	385 163	426 179	463 194	550 228	610 252	414 188	457 206	498 223	591 263	610 270	610 270
44	330 137	367 152	406 167	442 181	525 212	597 240	394 176	436 192	475 208	564 245	597 258	597 258
45	315 128	351 142	388 156	423 169	501 198	583 229	376 164	417 179	454 195	538 229	583 246	583 246
46	301 120	336 133	372 146	405 158	480 186	570 219	361 153	399 168	435 182	516 214	570 236	570 236
47	288 112	321 125	355 136	387 148	459 174	558 210	345 144	382 157	415 171	493 201	558 226	558 226
48	276 105	309 117	340 128	370 139	441 163	547 201	331 135	366 148	399 160	472 188	543 215	547 216
49	265 99	295 110	327 120	355 130	423 153	535 193	318 127	351 139	382 150	454 177	520 202	535 207
50	255 93	283 103	313 113	342 123	405 144	525 185	304 119	337 130	367 141	436 166	499 190	525 199
51	244 88	273 97	301 106	328 115	390 136	507 175	292 112	324 123	352 133	418 157	480 179	514 192
52	235 83	262 92	289 100	315 109	375 128	487 165	282 106	312 116	339 126	402 148	462 169	504 184
53	226 78	252 87	279 95	304 103	360 121	469 156	271 100	300 109	327 119	387 140	444 159	495 177
54	217 74	243 82	268 89	292 97	348 114	451 147	261 94	288 103	313 112	373 132	427 150	486 170
55	210 70	234 77	259 85	282 92	334 108	435 139	252 89	277 98	303 106	360 125	412 142	468 161
56	202 66	226 73	249 80	271 87	322 102	420 132	243 84	268 92	292 100	346 118	397 135	451 153
57							234 80	259 88	282 95	334 112	384 128	435 145
58							226 76	250 83	271 90	322 106	370 121	420 137
59							219 72	241 79	262 86	312 101	358 115	406 130
60							211 69	234 75	253 81	301 96	346 109	393 124

STANDARD LRFD LOAD TABLE
LONGSPAN STEEL JOISTS, LH-SERIES

Based on a 50 ksi Maximum Yield Strength
Adopted by the Steel Joist Institute May 1, 2000
Revised to November 10, 2003 - Effective March 01, 2005

The black figures in the following table give the TOTAL safe factored uniformly distributed load-carrying capacities, in pounds per linear foot, of **LRFD LH-Series** Steel Joists. The weight of factored DEAD loads, including the joists, must in all cases be deducted to determine the factored LIVE load-carrying capacities of the joists. The approximate DEAD load of the joists may be determined from the weights per linear foot shown in the tables.

The **RED** figures in this load table are the unfactored, nominal 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 **RED** figures by 1.5. In no case shall the TOTAL load capacity of the joists be exceeded.

This load table applies to joists with either parallel chords or standard pitched top chords. When top chords are pitched, the carrying capacities are determined by the nominal depth of the joists at the center of the span. Standard top chord pitch is 1/8 inch per foot. If pitch exceeds this standard, the load table does not apply. Sloped parallel-chord joists shall use span as defined by the length along the slope.

Where the joist span is in the **RED SHADED** area of the load table, the row of bridging nearest the midspan shall be diagonal bridging with bolted connections at chords and intersection. Hoisting cables shall not be released until this row of bolted diagonal bridging is completely installed.

Where the joist span is in the **BLUE SHADED** area of the load table, all rows of bridging shall be diagonal bridging with bolted connections at chords and intersection. Hoisting cables shall not be released until the two rows of bridging nearest the third points are completely installed.

The approximate moment of inertia of the joist, in inches^4 is; $I_j = 26.767(W_{LL})(L^3)(10^{-6})$, where W_{LL}= **RED** figure in the Load Table, and L = (clear span + 0.67) in feet.

When holes are required in top or bottom chords, the carrying capacities must be reduced in proportion to the reduction of chord areas.

The top chords are considered as being stayed laterally by floor slab or roof deck.

The approximate joist weights per linear foot shown in these tables do not include accessories.

LRFD

STANDARD LOAD TABLE FOR LONGSPAN STEEL JOISTS, LH-SERIES
Based on a 50 ksi Maximum Yield Strength - Loads Shown in Pounds per Linear 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	12000	702	663	627	586	550	517	486	459	433	409	388	367				
				313	284	259	234	212	193	175	160	147	135	124	114				
18LH03	11	18	13300	781	739	700	657	613	573	538	505	475	448	424	400				
				348	317	289	262	236	213	194	177	161	148	136	124				
18LH04	12	18	15500	906	856	802	750	703	660	619	582	547	516	487	462				
				403	367	329	296	266	242	219	200	182	167	153	141				
18LH05	15	18	17500	1026	972	921	871	814	762	714	672	631	595	562	532				
				454	414	378	345	311	282	256	233	212	195	179	164				
18LH06	15	18	20700	1213	1123	1044	972	907	849	796	748	705	664	627	594				
				526	469	419	377	340	307	280	254	232	212	195	180				
18LH07	17	18	21500	1260	1213	1170	1089	1017	952	892	838	789	744	703	666				
				553	513	476	428	386	349	317	288	264	241	222	204				
18LH08	19	18	22400	1314	1264	1218	1176	1137	1075	1020	961	906	856	810	768				
				577	534	496	462	427	387	351	320	292	267	246	226				
18LH09	21	18	24000	1404	1351	1302	1257	1215	1174	1138	1069	1006	949	897	849				
				616	571	527	491	458	418	380	346	316	289	266	245				
			22-24	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
20LH02	10	20	11300	663	655	646	615	582	547	516	487	460	436	412	393	373	355	337	322
				306	303	298	274	250	228	208	190	174	160	147	136	126	117	108	101
20LH03	11	20	12000	703	694	687	678	651	621	592	558	528	499	474	448	424	403	382	364
				337	333	317	302	280	258	238	218	200	184	169	156	143	133	123	114
20LH04	12	20	14700	861	849	837	792	744	700	660	624	589	558	529	502	477	454	433	412
				428	406	386	352	320	291	265	243	223	205	189	174	161	149	139	129
20LH05	14	20	15800	924	913	903	892	856	816	769	726	687	651	616	585	556	529	504	481
				459	437	416	395	366	337	308	281	258	238	219	202	187	173	161	150
20LH06	15	20	21100	1233	1186	1144	1084	1018	952	894	840	790	745	703	666	631	598	568	541
				606	561	521	477	427	386	351	320	292	267	246	226	209	192	178	165
20LH07	17	20	22500	1317	1267	1221	1179	1140	1066	1000	940	885	834	789	745	706	670	637	606
				647	599	556	518	484	438	398	362	331	303	278	256	236	218	202	187
20LH08	19	20	23200	1362	1309	1263	1219	1177	1140	1083	1030	981	931	882	837	795	754	718	685
				669	619	575	536	500	468	428	395	365	336	309	285	262	242	225	209
20LH09	21	20	25400	1485	1429	1377	1329	1284	1242	1203	1167	1132	1068	1009	954	904	858	816	775
				729	675	626	581	542	507	475	437	399	366	336	309	285	264	244	227
20LH10	23	20	27400	1602	1542	1486	1434	1386	1341	1297	1258	1221	1186	1122	1060	1005	954	906	862
				786	724	673	626	585	545	510	479	448	411	377	346	320	296	274	254

LRFD

STANDARD LOAD TABLE FOR LONGSPAN STEEL JOISTS, LH-SERIES
Based on a 50 ksi Maximum Yield Strength - Loads Shown in Pounds per Linear Foot (plf)

Joist Designation	Approx. Wt in Lbs. Per Linear Ft. (Joists only)	Depth in inches	SAFELOAD* in Lbs. Between		CLEAR SPAN IN FEET															
			28-32		**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**
24LH03	11	24	17250		513	508	504	484	460	439	418	400	382	366	351	336	322	310	298	286
					235	226	218	204	188	175	162	152	141	132	124	116	109	102	96	90
24LH04	12	24	21150		628	597	568	540	514	490	468	447	427	409	393	376	361	346	333	321
					288	265	246	227	210	195	182	169	158	148	138	130	122	114	107	101
24LH05	13	24	22650		673	669	660	628	598	570	544	520	496	475	456	436	420	403	387	372
					308	297	285	264	244	226	210	196	182	171	160	150	141	132	124	117
24LH06	16	24	30450		906	868	832	795	756	720	685	655	625	598	571	546	522	501	480	460
					411	382	356	331	306	284	263	245	228	211	197	184	172	161	152	142
24LH07	17	24	33450		997	957	919	882	847	811	774	736	702	669	639	610	583	559	535	514
					452	421	393	367	343	320	297	276	257	239	223	208	195	182	171	161
24LH08	18	24	35700		1060	1015	973	933	895	858	817	780	745	712	682	652	625	600	576	553
					480	447	416	388	362	338	314	292	272	254	238	222	208	196	184	173
24LH09	21	24	42000		1248	1212	1177	1146	1096	1044	994	948	903	861	822	786	751	720	690	661
					562	530	501	460	424	393	363	337	313	292	272	254	238	223	209	196
24LH10	23	24	44400		1323	1284	1248	1213	1182	1152	1105	1053	1002	955	912	873	834	799	766	735
					596	559	528	500	474	439	406	378	351	326	304	285	266	249	234	220
24LH11	25	24	46800		1390	1350	1312	1276	1243	1210	1180	1152	1101	1051	1006	963	924	885	850	816
					624	588	555	525	498	472	449	418	388	361	337	315	294	276	259	243
			33-40		**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**
28LH05	13	28	21000		505	484	465	445	429	412	397	382	367	355	342	330	319	309	298	289
					219	205	192	180	169	159	150	142	133	126	119	113	107	102	97	92
28LH06	16	28	27900		672	643	618	592	568	546	525	505	486	469	451	436	421	406	393	379
					289	270	253	238	223	209	197	186	175	166	156	148	140	133	126	120
28LH07	17	28	31500		757	726	696	667	640	615	591	568	547	528	508	490	474	457	442	427
					326	305	285	267	251	236	222	209	197	186	176	166	158	150	142	135
28LH08	18	28	33750		810	775	744	712	684	657	630	604	580	556	535	516	496	478	462	445
					348	325	305	285	268	252	236	222	209	196	185	175	165	156	148	140
28LH09	21	28	41550		1000	958	918	879	844	810	778	748	721	694	669	645	622	601	580	561
					428	400	375	351	329	309	291	274	258	243	228	216	204	193	183	173
28LH10	23	28	45450		1093	1056	1018	976	937	900	864	831	799	769	742	715	690	666	643	622
					466	439	414	388	364	342	322	303	285	269	255	241	228	215	204	193
28LH11	25	28	48750		1170	1143	1104	1066	1023	982	943	907	873	841	810	781	753	727	702	679
					498	475	448	423	397	373	351	331	312	294	278	263	249	236	223	212
28LH12	27	28	53550		1285	1255	1227	1200	1173	1149	1105	1063	1023	984	948	913	880	849	819	790
					545	520	496	476	454	435	408	383	361	340	321	303	285	270	256	243
28LH13	30	28	55800		1342	1311	1281	1252	1224	1198	1173	1149	1126	1083	1041	1002	964	930	897	865
					569	543	518	495	472	452	433	415	396	373	352	332	314	297	281	266
			38-46	**47-48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**
32LH06	14	32	25050	25050	507	489	472	456	441	426	412	399	385	373	363	351	340	330	321	312
					211	199	189	179	169	161	153	145	138	131	125	119	114	108	104	99
32LH07	16	32	28200	28200	568	549	529	511	493	477	462	447	432	418	406	393	381	370	360	349
					235	223	211	200	189	179	170	162	154	146	140	133	127	121	116	111
32LH08	17	32	30600	30600	616	595	574	553	535	517	499	483	468	453	439	426	412	400	388	378
					255	242	229	216	205	194	184	175	167	159	151	144	137	131	125	120
32LH09	21	32	38400	38400	774	747	720	694	670	648	627	606	586	568	550	534	517	502	487	472
					319	302	285	270	256	243	230	219	208	198	189	180	172	164	157	149
32LH10	21	32	42450	42450	856	825	796	768	742	717	693	667	645	624	603	583	564	546	529	513
					352	332	315	297	282	267	254	240	228	217	206	196	186	178	169	162
32LH11	24	32	46500	46500	937	903	870	840	811	783	757	732	709	687	664	643	624	604	585	567
					385	363	343	325	308	292	277	263	251	239	227	216	206	196	187	179
32LH12	27	32	54600	54600	1101	1068	1032	996	961	928	897	867	838	811	786	762	738	715	694	673
					450	428	406	384	364	345	327	311	295	281	267	255	243	232	221	211
32LH13	30	32	60900	60900	1225	1201	1177	1156	1113	1072	1035	999	964	931	900	871	843	816	790	766
					500	480	461	444	420	397	376	354	336	319	304	288	275	262	249	238
32LH14	33	32	62700	62700	1264	1239	1215	1192	1170	1149	1107	1069	1032	997	964	933	903	874	846	820
					515	495	476	458	440	417	395	374	355	337	321	304	290	276	264	251
32LH15	35	32	64800	64800	1305	1279	1255	1231	1207	1186	1164	1144	1125	1087	1051	1017	984	952	924	895
					532	511	492	473	454	438	422	407	393	374	355	338	322	306	292	279
			42-46	**47-56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**
36LH07	16	36	25200	25200	438	424	411	399	387	376	366	355	345	336	327	318	310	301	294	286
					177	168	160	153	146	140	134	128	122	117	112	107	103	99	95	91
36LH08	18	36	27750	27750	481	466	453	439	426	414	402	390	379	369	358	349	340	331	322	313
					194	185	176	168	160	153	146	140	134	128	123	118	113	109	104	100
36LH09	21	36	35550	35550	616	597	579	561	544	528	513	499	484	471	459	445	433	423	412	400
					247	235	224	214	204	195	186	179	171	163	157	150	144	138	133	127
36LH10	21	36	39150	39150	681	660	639	619	601	583	567	550	535	520	507	492	480	466	454	442
					273	260	248	236	225	215	206	197	188	180	173	165	159	152	146	140
36LH11	23	36	42750	42750	742	720	697	676	657	637	618	601	583	567	552	537	522	508	495	483
					297	283	269	257	246	234	224	214	205	196	188	180	173	166	159	153
36LH12	25	36	51150	51150	889	862	835	810	784	762	739	717	696	675	655	636	618	600	583	567
					354	338	322	307	292	279	267	255	243	232	222	213	204	195	187	179
36LH13	30	36	60150	60150	1045	1012	981	951	922	894	868	843	819	796	774	753	732	712	694	676
					415	395	376	359	342	327	312	298	285	273	262	251	240	231	222	213
36LH14	36	36	66300	66300	1152	1132	1093	1059	1024	991	961	931	903	876	850	826	802	780	757	738
					456	434	412	392	373	356	339	323	309	295	283	270	259	247	237	228
36LH15	36	36	69900	69900	1213	1192	1171	1153	1116	1081	1047	1015	984	955	927	900	874	850	826	804
					480	464	448	434	413	394	375	358	342	327	312	299	286	274	263	252

LRFD

STANDARD LOAD TABLE FOR LONGSPAN STEEL JOISTS, LH-SERIES
Based on a 50 ksi Maximum Yield Strength - Loads Shown in Pounds per Linear Foot (plf)

Joist Designation	Approx. Wt in Lbs. Per Linear Ft. (Joists Only)	Depth in inches	SAFELOAD* in Lbs. Between		CLEAR SPAN IN FEET															
			47-59	**60-64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**
40LH08	16	40	24900	24900	381	370	361	351	342	333	325	316	309	301	294	288	280	274	267	261
					150	144	138	132	127	122	117	112	108	104	100	97	93	90	86	83
40LH09	21	40	32700	32700	498	484	472	459	447	436	424	414	403	394	384	375	366	358	349	342
					196	188	180	173	166	160	153	147	141	136	131	126	122	118	113	109
40LH10	21	40	36000	36000	550	535	520	507	493	481	469	457	445	435	424	414	403	393	382	373
					216	207	198	190	183	176	169	162	156	150	144	139	134	129	124	119
40LH11	22	40	39300	39300	598	582	567	552	537	523	510	498	484	472	462	450	439	429	418	409
					234	224	215	207	198	190	183	176	169	163	157	151	145	140	135	130
40LH12	25	40	47850	47850	729	708	688	670	652	636	619	603	588	573	559	546	532	519	507	495
					285	273	261	251	241	231	222	213	205	197	189	182	176	169	163	157
40LH13	30	40	56400	56400	859	835	813	792	771	750	730	712	694	676	660	643	628	613	598	585
					334	320	307	295	283	271	260	250	241	231	223	214	207	199	192	185
40LH14	35	40	64500	64500	984	957	930	904	880	856	834	813	792	772	753	735	717	699	682	666
					383	367	351	336	323	309	297	285	273	263	252	243	233	225	216	209
40LH15	36	40	72150	72150	1101	1068	1036	1006	978	949	924	898	874	850	828	807	786	766	747	729
					427	408	390	373	357	342	328	315	302	290	279	268	258	248	239	230
40LH16	42	40	79500	79500	1212	1194	1176	1158	1141	1126	1095	1065	1036	1009	982	957	933	909	886	864
					469	455	441	428	416	404	387	371	356	342	329	316	304	292	282	271
			52-59	**60-72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**
44LH09	19	44	30000	30000	408	397	388	379	370	363	354	346	339	331	324	316	310	303	297	291
					158	152	146	141	136	131	127	122	118	114	110	106	103	99	96	93
44LH10	21	44	33150	33150	450	439	429	418	408	399	390	381	373	364	357	349	342	334	327	321
					174	168	162	155	150	144	139	134	130	125	121	117	113	110	106	103
44LH11	22	44	35850	35850	487	475	465	453	442	433	423	414	403	396	387	378	370	363	354	348
					188	181	175	168	162	157	151	146	140	136	131	127	123	119	115	111
44LH12	25	44	44400	44400	603	589	574	561	547	534	520	508	496	484	472	462	450	439	430	420
					232	224	215	207	200	192	185	179	172	166	160	155	149	144	139	134
44LH13	30	44	52650	52650	715	699	681	666	649	634	619	606	592	579	565	553	541	529	519	507
					275	265	254	246	236	228	220	212	205	198	191	185	179	173	167	161
44LH14	31	44	60600	60600	823	801	780	759	739	721	703	685	669	654	637	622	609	594	580	568
					315	302	291	279	268	259	249	240	231	223	215	207	200	193	187	181
44LH15	36	44	70500	70500	958	934	912	889	868	847	826	805	786	768	750	732	714	699	682	667
					366	352	339	326	314	303	292	281	271	261	252	243	234	227	219	211
44LH16	42	44	81300	81300	1105	1078	1051	1026	1002	978	955	933	912	891	870	852	832	814	796	780
					421	405	390	375	362	348	336	324	313	302	291	282	272	263	255	246
44LH17	47	44	87300	87300	1185	1170	1153	1138	1125	1098	1072	1048	1024	1000	978	957	936	915	895	876
					450	438	426	415	405	390	376	363	351	338	327	316	305	295	285	276
			56-59	**60-80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**	**91**	**92**	**93**	**94**	**95**	**96**
48LH10	21	48	30000	30000	369	361	354	346	339	331	325	318	312	306	300	294	288	282	277	271
					141	136	132	127	123	119	116	112	108	105	102	99	96	93	90	87
48LH11	22	48	32550	32550	399	390	382	373	366	358	351	343	337	330	324	318	312	306	300	294
					152	147	142	137	133	129	125	120	117	113	110	106	103	100	97	94
48LH12	25	48	41100	41100	504	493	483	472	462	451	442	433	424	415	408	399	391	384	376	369
					191	185	179	173	167	161	156	151	147	142	138	133	129	126	122	118
48LH13	29	48	49200	49200	603	589	576	564	552	540	529	517	507	498	487	477	468	459	450	441
					228	221	213	206	199	193	187	180	175	170	164	159	154	150	145	141
48LH14	32	48	58050	58050	712	696	681	666	651	637	624	610	598	585	574	562	550	540	529	519
					269	260	251	243	234	227	220	212	206	199	193	187	181	176	171	165
48LH15	36	48	66750	66750	817	799	781	765	748	732	717	702	687	672	658	645	633	619	607	595
					308	298	287	278	269	260	252	244	236	228	221	214	208	201	195	189
48LH16	42	48	76950	76950	943	922	901	882	864	844	826	810	792	777	760	745	730	715	702	688
					355	343	331	320	310	299	289	280	271	263	255	247	239	232	225	218
48LH17	47	48	86400	86400	1059	1035	1012	990	969	948	928	909	889	871	853	837	820	804	787	772
					397	383	371	358	346	335	324	314	304	294	285	276	268	260	252	245

* The safe factored uniform load for the clear spans shown in the Safe Load Column is equal to (Safe Load) / (Clear span + 0.67). (The added 0.67 feet (8 inches) is required to obtain the proper length on which the Load Tables were developed).

In no case shall the safe factored uniform load, for clear spans less than the minimum clear span shown in the Safe Load Column, exceed the uniform load calculated for the minimum clear span listed in the Safe Load Column.

To solve for *live* loads for clear spans shown in the Safe Load Column (or lesser clear spans), multiply the live load of the shortest clear span shown in the Load Table by the (the shortest clear span shown in the Load Table + 0.67 feet)^2 and divide by (the actual clear span + 0.67 feet)^2. The live load shall *not* exceed the safe uniform load.

STANDARD LRFD LOAD TABLE
DEEP LONGSPAN STEEL JOISTS, DLH-SERIES

Based on a 50 ksi Maximum Yield Strength
Adopted by the Steel Joist Institute May 1, 2000
Revised to November 10, 2003 - Effective March 01, 2005

The black figures in the following table give the TOTAL safe factored uniformly distributed load-carrying capacities, in pounds per linear foot, of an **LRFD DLH-Series** Steel Joists. The weight of factored DEAD loads, including the joists, must in all cases be deducted to determine the factored LIVE load-carrying capacities of the joists. The approximate DEAD load of the joists may be determined from the weights per linear foot shown in the tables. All loads shown are for roof construction only.

The **RED** figures in this load table are the unfactored, nominal 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 **RED** figures by 1.5. In no case shall the TOTAL load capacity of the joists be exceeded.

This load table applies to joists with either parallel chords or standard pitched top chords. When top chords are pitched, the carrying capacities are determined by the nominal depth of the joists at the center of the span. Standard top chord pitch is 1/8 inch per foot. If pitch exceeds this standard, the load table does not apply. Sloped parallel-chord joists shall use span as defined by the length along the slope.

All rows of bridging shall be diagonal bridging with bolted connections at the chords and intersections.

Where the joist span is in the **BLUE SHADED** area of the load table hoisting cables shall not be released until the two rows of bridging nearest the third points are completely installed.

Where the joist span is in the **GRAY SHADED** area of the load table hoisting cables shall not be released until all rows of bridging are completely installed.

The approximate moment of inertia of the joist, in inches^4 is; $I_j = 26.767(W_{LL})(L^3)(10^{-6})$, where W_{LL}= **RED** figure in the Load Table, and L = (clear span + 0.67) in feet.

When holes are required in top or bottom chords, the carrying capacities must be reduced in proportion to the reduction of chord areas.

The top chords are considered as being stayed laterally by floor slab or roof deck.

The approximate joist weights per linear foot shown in these tables do not include accessories.

LRFD

STANDARD LOAD TABLE FOR DEEP LONGSPAN STEEL JOISTS, DLH-SERIES
Based on a 50 ksi Maximum Yield Strength - Loads Shown in Pounds per Linear Foot (plf)

Joist Designation	Approx. Wt in Lbs. Per Linear Ft (Joists only)	Depth in inches	SAFELOAD* in Lbs. Between	CLEAR SPAN IN LINEAR FEET															
			61-88	**89**	**90**	**91**	**92**	**93**	**94**	**95**	**96**	**97**	**98**	**99**	**100**	**101**	**102**	**103**	**104**
52DLH10	25	52	40050	447 171	436 165	427 159	418 154	409 150	400 145	391 140	384 136	376 132	369 128	361 124	354 120	346 116	340 114	334 110	327 107
52DLH11	26	52	43950	490 187	480 181	469 174	459 169	448 164	439 158	430 153	421 149	412 144	405 140	396 135	388 132	381 128	373 124	366 120	360 117
52DLH12	29	52	49050	547 204	535 197	523 191	513 185	501 179	490 173	480 168	471 163	460 158	451 153	442 149	433 144	426 140	417 135	409 132	402 128
52DLH13	34	52	59550	664 247	649 239	636 231	621 224	609 216	595 209	583 203	571 197	559 191	549 185	537 180	526 174	516 170	507 164	496 159	487 155
52DLH14	39	52	68100	760 276	745 266	729 258	714 249	699 242	685 234	670 227	657 220	645 213	631 207	619 201	607 194	595 189	585 184	573 178	562 173
52DLH15	42	52	76500	853 311	835 301	817 291	799 282	783 272	766 264	750 256	735 247	720 240	705 233	691 226	676 219	664 213	651 207	639 201	627 195
52DLH16	45	52	82500	921 346	901 335	882 324	862 314	844 304	826 294	810 285	792 276	777 267	760 260	745 252	730 245	717 237	702 230	688 224	676 217
52DLH17	52	52	94950	1059 395	1036 381	1014 369	991 357	970 346	951 335	930 324	912 315	892 304	874 296	858 286	840 279	823 270	808 263	792 255	777 247
			66-96	**97**	**98**	**99**	**100**	**101**	**102**	**103**	**104**	**105**	**106**	**107**	**108**	**109**	**110**	**111**	**112**
56DLH11	26	56	42150	432 169	424 163	415 158	408 153	400 149	393 145	385 140	379 136	372 133	366 129	358 125	352 122	346 118	340 115	334 113	328 110
56DLH12	30	56	48450	496 184	486 178	477 173	468 168	459 163	450 158	442 153	433 150	426 145	417 141	409 137	402 133	394 130	388 126	381 123	373 119
56DLH13	34	56	58650	601 223	591 216	579 209	568 204	558 197	547 191	537 186	526 181	516 175	507 171	496 166	487 161	478 157	471 152	462 149	454 145
56DLH14	39	56	66300	679 249	666 242	652 234	640 228	628 221	616 214	604 209	594 202	582 196	571 190	562 186	552 181	541 175	532 171	523 167	514 162
56DLH15	42	56	75750	777 281	762 272	747 264	732 256	717 248	703 242	690 234	676 228	664 221	651 215	639 209	628 204	616 198	604 192	594 188	583 182
56DLH16	46	56	81750	838 313	822 304	805 294	789 285	774 277	759 269	744 262	730 254	717 247	703 240	690 233	678 227	666 221	654 214	642 209	630 204
56DLH17	51	56	94200	964 356	945 345	927 335	907 325	891 316	873 306	856 298	840 289	823 281	808 273	793 266	780 258	765 251	751 245	738 238	724 231

LRFD

STANDARD LOAD TABLE LONGSPAN STEEL JOISTS, LRFD DLH-SERIES
Based on a 50 ksi Maximum Yield Strength - Loads Shown in Pounds per Linear Foot (plf)

Joist Designation	Approx. Wt in Lbs. Per Linear Ft (Joists only)	Depth in inches	SAFE LOAD* in Lbs. Between		CLEAR SPAN IN LINEAR FEET															
			70-99	**100-104**	**105**	**106**	**107**	**108**	**109**	**110**	**111**	**112**	**113**	**114**	**115**	**116**	**117**	**118**	**119**	**120**
60DLH12	29	60	46650	46650	442	433	426	418	411	405	397	391	384	378	372	366	360	354	348	342
					168	163	158	154	150	146	142	138	134	131	128	124	121	118	115	113
60DLH13	35	60	56700	56700	537	526	517	508	499	490	483	474	466	459	451	444	436	429	423	415
					203	197	191	187	181	176	171	167	163	158	154	151	147	143	139	135
60DLH14	40	60	63000	63000	597	586	574	564	555	544	534	525	516	507	498	490	481	474	465	457
					216	210	205	199	193	189	183	178	173	170	165	161	156	152	149	145
60DLH15	43	60	73950	73950	700	687	675	663	651	640	628	618	607	597	588	577	568	559	550	541
					255	248	242	235	228	223	216	210	205	200	194	190	185	180	175	171
60DLH16	46	60	81300	81300	769	756	741	727	714	702	690	676	666	654	642	631	621	610	600	589
					285	277	269	262	255	247	241	235	228	223	217	211	206	201	196	190
60DLH17	52	60	93450	93450	885	868	853	837	822	807	793	778	765	751	739	726	714	702	690	679
					324	315	306	298	290	283	275	267	261	254	247	241	235	228	223	217
60DLH18	59	60	107850	107850	1021	1002	984	966	948	931	915	898	883	867	852	838	823	810	796	783
					366	357	346	337	327	319	310	303	294	286	279	272	266	259	252	246
			75-99	**100-112**	**113**	**114**	**115**	**116**	**117**	**118**	**119**	**120**	**121**	**122**	**123**	**124**	**125**	**126**	**127**	**128**
64DLH12	31	64	45000	45000	396	388	382	376	370	364	358	352	346	342	336	331	327	321	316	312
					153	150	146	142	138	135	132	129	125	122	119	116	114	111	109	106
64DLH13	34	64	54600	54600	481	472	465	457	450	442	436	429	421	415	409	403	396	390	385	379
					186	181	176	171	168	163	159	155	152	148	144	141	137	134	131	128
64DLH14	40	64	62550	62550	550	540	531	523	514	505	498	489	481	474	466	459	451	444	438	430
					199	193	189	184	179	174	171	166	162	158	154	151	147	143	140	136
64DLH15	43	64	71700	71700	631	621	610	600	591	580	571	562	553	544	537	528	520	511	504	496
					234	228	223	217	211	206	201	196	191	187	182	177	173	170	165	161
64DLH16	46	64	80700	80700	711	699	687	675	664	652	642	631	621	610	601	591	582	573	564	555
					262	254	248	242	235	229	224	218	213	208	203	198	193	189	184	180
64DLH17	52	64	93000	93000	819	804	790	777	763	751	738	726	714	702	691	681	669	658	648	639
					298	290	283	275	268	262	255	248	243	237	231	226	220	215	210	205
64DLH18	59	64	107400	107400	945	928	912	897	880	867	852	838	823	810	798	784	772	760	748	736
					337	328	320	311	304	296	288	282	274	267	261	255	249	243	237	232
			80-99	**100-120**	**121**	**122**	**123**	**124**	**125**	**126**	**127**	**128**	**129**	**130**	**131**	**132**	**133**	**134**	**135**	**136**
68DLH13	37	68	52500	52500	432	426	418	412	406	400	394	388	382	378	372	366	361	355	351	346
					171	168	164	159	155	152	149	145	142	138	135	133	130	127	124	121
68DLH14	40	68	60450	60450	498	490	483	475	468	462	454	448	441	435	429	421	415	409	403	399
					184	179	175	171	167	163	159	155	152	148	145	141	138	135	133	130
68DLH15	44	68	67800	67800	558	547	540	531	522	514	505	498	490	483	475	468	462	454	448	441
					206	201	196	191	187	182	178	174	170	166	162	158	155	152	148	145
68DLH16	49	68	80400	80400	661	649	640	630	619	610	600	591	582	573	564	556	547	540	531	523
					242	236	230	225	219	214	209	204	199	195	190	186	182	178	174	171
68DLH17	55	68	90600	90600	745	733	721	711	700	690	679	669	658	649	640	630	621	612	604	595
					275	268	262	256	249	244	238	232	228	222	217	212	208	203	198	194
68DLH18	61	68	104850	104850	862	849	835	823	810	798	786	774	762	751	739	729	718	708	697	688
					311	304	297	289	283	276	269	263	257	251	246	240	234	230	225	219
68DLH19	67	68	120750	120750	993	976	961	946	931	916	901	888	874	861	847	835	822	810	798	787
					353	344	336	328	320	313	305	298	291	285	278	272	266	260	254	248
			84-99	**100-128**	**129**	**130**	**131**	**132**	**133**	**134**	**135**	**136**	**137**	**138**	**139**	**140**	**141**	**142**	**143**	**144**
72DLH14	41	72	58800	58800	454	447	441	435	427	421	415	411	405	399	393	388	382	378	372	367
					171	167	163	159	155	152	149	146	143	139	136	133	131	128	125	123
72DLH15	44	72	67350	67350	520	513	504	496	489	483	475	468	462	454	448	442	436	429	423	418
					191	187	183	178	174	171	167	163	160	156	152	150	147	143	140	137
72DLH16	50	72	77850	77850	601	592	585	576	567	559	552	544	537	529	522	514	507	501	493	487
					225	219	214	209	205	200	196	191	188	183	179	175	171	169	165	161
72DLH17	56	72	87600	87600	676	667	657	648	639	630	621	612	603	595	586	579	571	564	556	549
					256	250	245	239	233	228	224	218	213	209	205	200	196	191	188	184
72DLH18	59	72	102600	102600	792	780	768	757	745	735	724	718	705	694	685	675	666	657	648	639
					289	283	276	270	265	258	252	247	242	236	231	227	222	217	212	209
72DLH19	70	72	120300	120300	928	913	900	886	873	859	847	835	823	811	799	789	777	766	756	745
					328	321	313	306	300	293	286	280	274	268	263	257	251	247	241	236

* The safe factored uniform load for the clear spans shown in the Safe Load Column is equal to (Safe Load) / (Clear span + 0.67). (The added 0.67 feet (8 inches) is required to obtain the proper length on which the Load Tables were developed).

In no case shall the safe factored uniform load, for clear spans less than the minimum clear span shown in the Safe Load Column, exceed the uniform load calculated for the minimum clear span listed in the Safe Load Column.

To solve for *live* loads for clear spans shown in the Safe Load Column (or lesser clear spans), multiply the live load of the shortest clear span shown in the Load Table by (the shortest clear span shown in the Load Table + 0.67 feet)^2 and divide by (the actual clear span + 0.67 feet)^2. The live load shall *not* exceed the safe uniform load.

DESIGN GUIDE LRFD WEIGHT TABLE
FOR JOIST GIRDERS

Based on a 50 ksi Maximum Yield Strength

GIRDER SPAN (ft.)	JOIST SPACES (ft.)	GIRDER DEPTH (in.)	JOIST GIRDER WEIGHT – POUNDS PER LINEAR FOOT FACTORED LOAD ON EACH PANEL POINT – KIPS																	
			6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0
20	2N@ 10.00	20	16	19	19	19	19	20	24	24	25	30	37	41	46	50	56	62	70	75
		24	16	19	19	19	19	20	21	21	25	28	32	36	41	42	49	52	53	66
		28	16	19	19	19	19	20	20	21	23	26	28	32	39	40	42	46	48	49
	3N@ 6.67	20	15	15	19	19	20	23	24	27	31	36	44	48	54	74	75	81	84	89
		24	15	16	16	16	19	20	23	26	27	33	36	45	47	53	56	68	79	82
		28	15	16	16	16	17	20	24	24	26	31	36	44	46	49	53	57	68	80
	4N@ 5.00	20	15	15	19	21	25	29	33	38	41	50	57	65	71	88	97	100	107	120
		24	15	16	17	20	23	26	29	32	35	44	50	55	62	71	85	90	100	102
		28	16	16	17	19	22	25	28	30	34	39	49	50	59	63	72	86	91	91
	5N@ 4.00	20	15	17	21	26	31	36	39	48	51	62	71	82	99	99	109	120	141	142
		24	16	16	20	23	26	30	35	39	43	53	60	68	80	91	101	103	110	120
		28	16	16	18	22	27	28	33	37	39	48	55	64	68	77	93	95	107	111
	6N@ 3.33	20	16	19	25	29	36	41	50	57	58	72	82	99	107	118	138	141		
		24	16	18	22	28	31	37	43	46	53	61	70	85	102	102	111	123	144	147
		28	17	18	22	26	30	33	40	42	47	58	68	76	83	96	109	112	119	130
	8N@ 2.50	20	19	25	32	41	51	58	65	72	82	99	118	139	142					
		24	17	22	29	36	42	50	54	61	69	86	103	107	128	149	153			
		28	18	22	29	34	40	47	54	61	67	76	88	107	112	124	135	155	166	
22	2N@ 11.00	20	21	21	21	22	22	23	24	24	25	34	39	43	49	55	62	69	76	78
		24	18	21	21	22	22	22	23	24	24	30	33	41	41	45	51	55	61	73
		28	18	21	21	21	22	22	22	23	24	37	30	33	41	42	46	48	51	58
	3N@ 7.33	20	15	18	18	19	22	24	26	29	33	42	45	53	68	70	76	84	88	94
		24	15	15	19	19	20	23	24	26	30	35	40	45	48	55	61	74	81	84
		28	15	16	16	16	19	20	23	24	27	32	36	45	47	52	54	59	74	82
	4N@ 5.50	20	15	16	19	23	26	30	36	39	44	55	62	71	82	95	96	106	119	134
		24	15	15	17	20	25	27	29	34	38	48	52	58	71	79	89	98	101	107
		28	16	16	16	19	22	25	28	32	35	40	49	54	60	72	79	87	90	97
	5N@ 4.40	20	15	17	24	27	34	38	42	49	55	65	75	96	98	111	126	137		
		24	16	16	20	24	28	33	38	40	48	56	62	73	85	100	101	110	116	133
		28	16	16	18	22	26	30	32	38	41	51	57	65	73	86	92	102	105	111
	6N@ 3.67	20	16	21	27	33	39	49	56	57	65	79	97	106	118	137				
		24	16	19	23	28	32	39	45	51	58	66	82	98	101	109	120	142	144	
		28	16	18	22	26	30	34	39	44	50	61	70	76	89	102	104	113	127	148
	8N@ 2.75	20	19	27	36	43	56	64	71	80	96	106	135	138						
		24	18	24	31	38	46	53	60	68	75	101	105	125	145	149				
		28	18	22	28	34	40	47	54	62	69	79	87	106	118	131	152	164		
25	3N@ 8.33	20	18	18	19	22	26	27	30	37	41	49	59	66	70	76	86	89	97	102
		24	15	18	19	20	22	25	26	28	32	39	43	51	59	67	71	81	84	89
		28	15	15	19	19	20	23	24	27	29	34	39	45	47	55	59	67	81	82
		32	15	16	16	16	20	21	23	24	27	32	36	44	46	52	54	58	74	81
		36	16	16	16	17	17	20	24	24	26	32	36	40	45	48	53	54	68	79
	4N@ 6.25	20	15	18	20	25	29	35	39	42	49	55	70	78	93	99	109	119	134	135
		24	15	16	19	21	26	29	33	37	40	50	57	64	72	88	97	100	106	120
		28	15	15	17	20	24	25	29	34	37	43	51	58	66	72	89	90	101	102
		32	16	16	17	19	21	25	28	32	35	40	49	54	60	69	79	86	91	96
		36	16	16	17	19	21	26	26	29	34	38	49	50	56	63	73	85	88	92
	5N@ 5.00	20	15	18	25	31	38	43	51	55	58	73	93	100	109	125	134			
		24	15	17	23	26	32	36	42	47	53	61	75	81	98	102	112	129	140	
		28	16	16	20	24	28	31	37	41	47	56	62	72	79	93	101	106	117	125
		32	16	16	19	23	26	30	33	38	41	51	57	65	73	83	93	102	105	111
		36	16	17	18	22	26	28	31	36	39	48	54	64	69	75	88	96	101	108
	6N@ 4.17	20	16	24	29	38	45	55	58	69	78	94	104	116	134					
		24	16	20	25	31	37	44	50	56	64	75	97	99	107	118	138			
		28	16	18	23	28	32	38	44	51	55	67	73	87	101	104	120	134	143	145
		32	16	18	22	26	30	34	39	44	50	61	69	77	89	102	105	113	127	148
		36	16	18	24	25	30	36	39	43	49	58	67	74	84	98	108	116	117	129
	8N@ 3.12	20	21	29	39	48	58	70	78	94	99	115	134							
		24	19	26	33	41	50	57	65	75	81	99	118	138						
		28	18	23	30	38	44	53	60	67	75	86	103	116	127	147				
		32	18	24	28	34	39	47	54	65	71	78	87	105	117	129	152	154		
		36	18	22	29	34	40	46	52	61	63	76	87	101	114	121	136	148	166	167
	10N@ 2.50	20	26	38	49	63	78	94	100	115	134									
		24	23	33	42	54	65	75	89	99	104	130								
		28	21	30	38	48	56	64	74	84	101	109	134	147						
		32	21	28	36	43	52	62	69	76	87	107	118	130	153					
		36	22	28	37	44	52	64	71	77	85	100	116	130	151	157				

LRFD

GIRDER SPAN (ft.)	JOIST SPACES (ft.)	GIRDER DEPTH (in.)	JOIST GIRDER WEIGHT – POUNDS PER LINEAR FOOT FACTORED LOAD ON EACH PANEL POINT – KIPS																	
			6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0
28	3N@ 9.33	24	18	18	19	22	24	27	29	36	39	43	53	62	70	71	78	85	89	98
		28	18	18	19	20	22	25	26	28	31	39	43	46	55	61	66	76	83	86
		32	15	18	19	19	21	23	24	27	28	34	39	45	48	53	58	66	80	81
	4N@ 7.00	24	15	16	20	24	27	32	38	40	48	55	62	71	82	95	104	106	120	135
		28	15	15	18	21	25	28	32	36	39	49	56	64	71	79	96	97	106	107
		32	15	15	17	20	23	25	29	33	37	43	50	58	62	70	85	90	99	102
	5N@ 5.60	24	15	18	24	29	34	39	46	52	58	66	78	96	102	111	126	136		
		28	15	17	21	26	30	35	39	46	50	61	68	77	90	99	107	114	130	142
		32	16	17	20	24	27	32	37	41	44	56	62	70	80	93	102	107	112	119
	6N@ 4.67	24	16	21	28	35	41	49	55	63	70	79	96	106	134	137				
		28	15	20	24	30	36	42	50	54	58	71	82	99	107	118	138	142		
		32	16	19	23	28	32	37	43	49	53	64	74	84	101	102	111	123	144	146
	7N@ 4.00	24	18	24	32	41	49	56	64	74	79	96	110	135						
		28	17	22	27	35	43	51	57	62	69	82	99	108	129	140				
		32	16	21	27	31	38	44	52	55	63	74	85	102	108	123	143	146		
	8N@ 3.50	24	20	28	37	48	55	64	74	79	95	105	134							
		28	18	25	32	39	50	58	65	72	81	99	108	129	141					
		32	17	24	29	38	43	53	60	64	70	86	103	113	127	147	149			
	10N@ 2.80	24	24	36	46	57	70	79	96	102	117	137								
		28	23	30	41	50	60	69	82	99	100	120	141							
		32	21	30	38	46	55	66	71	80	93	109	126	147						
30	3N@ 10.00	24	18	18	21	24	27	31	35	38	40	48	58	66	71	80	92	98	117	119
		28	18	18	19	22	25	27	30	35	37	42	49	56	63	70	79	82	93	99
		32	18	18	19	20	22	26	28	31	32	39	46	51	57	64	71	73	83	84
		36	16	19	19	19	21	23	26	28	31	35	39	46	52	57	64	65	73	75
	4N@ 7.50	24	16	18	23	29	33	37	42	49	53	64	76	85	101	104	126	127	149	150
		28	15	16	21	25	30	33	37	42	45	53	61	73	81	86	103	104	126	128
		32	15	16	18	22	26	30	34	37	43	51	55	62	70	77	87	103	105	116
		36	16	16	17	22	24	27	31	34	36	46	52	59	64	74	78	88	91	105
	5N@ 6.00	24	15	19	25	30	37	43	51	55	58	73	86	96	109	125	134			
		28	15	17	23	27	32	37	44	47	53	61	75	88	97	102	112	128	138	
		32	16	17	21	24	29	35	39	43	48	56	63	77	90	100	101	107	117	133
		36	16	17	20	24	27	31	36	40	43	51	60	70	80	86	94	103	110	118
	6N@ 5.00	24	16	24	29	37	45	52	58	66	73	94	104	116	134					
		28	16	20	27	32	38	44	50	57	65	75	97	99	107	137	140			
		32	16	19	24	29	34	40	45	51	58	65	82	98	100	109	121	142	144	
		36	16	18	23	26	31	37	41	46	52	61	70	84	101	102	111	123	126	148
	8N@ 3.75	24	21	32	40	51	63	73	83	99	111	124	146							
		28	20	30	37	44	53	61	73	80	86	114	126	149						
		32	18	26	34	42	49	55	63	71	79	104	117	130	154	161				
		36	17	23	32	39	46	54	61	69	76	89	108	121	134	154	169			
	10N@ 3.00	24	25	38	51	66	78	99	111	123	134									
		28	24	36	47	57	69	80	94	113	116	138								
		32	22	31	39	52	58	74	82	95	105	129	142							
		36	22	30	39	48	54	68	79	84	91	119	132	151						
32	3N@ 10.67	24	18	19	21	26	27	34	38	40	42	54	61	70	75	84	88	102	102	113
		28	16	17	18	24	26	28	31	34	37	43	55	60	69	70	76	85	89	93
		32	17	17	18	21	25	26	28	32	34	39	44	54	61	62	67	77	80	86
		36	15	17	19	20	23	25	26	28	30	38	40	45	51	53	58	67	81	77
	4N@ 8.00	24	18	19	23	26	32	37	40	47	55	61	72	86	94	103	114	133	134	
		28	15	18	20	24	28	32	37	40	45	55	62	70	78	94	96	105	121	135
		32	15	15	20	22	25	29	32	36	39	49	56	64	71	83	82	97	102	107
		36	15	16	17	21	24	26	30	34	36	43	50	58	65	70	85	90	99	102
	5N@ 6.40	24	15	20	27	33	39	44	51	57	65	77	93	100	123	133				
		28	15	18	24	28	34	39	46	52	58	66	74	96	101	110	126	137		
		32	15	17	22	26	32	35	41	46	53	61	68	77	90	99	105	114	130	142
		36	16	17	21	24	27	33	37	42	47	56	62	70	79	93	102	106	117	120
	6N@ 5.33	24	17	24	31	39	47	55	61	69	76	94	103	133	134					
		28	16	21	27	35	40	48	55	60	67	79	96	105	117	137				
		32	16	20	25	30	36	42	50	54	58	71	82	99	103	118	139	142		
		36	16	19	24	28	34	38	44	49	55	66	73	84	101	102	111	123	144	146
	8N@ 4.00	24	22	32	40	54	61	72	86	93	103	133								
		28	19	27	35	45	55	63	70	80	95	105	134	137						
		32	18	25	32	39	50	58	65	71	81	99	109	120	141					
		36	18	24	31	38	43	53	59	67	71	86	103	113	127	147				

LRFD

GIRDER SPAN (ft.)	JOIST SPACES (ft.)	GIRDER DEPTH (in.)	JOIST GIRDER WEIGHT – POUNDS PER LINEAR FOOT FACTORED LOAD ON EACH PANEL POINT – KIPS																	
			6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0
35	4N@ 8.75	28	16	19	23	27	31	36	41	46	52	60	74	79	94	100	111	117	137	138
		32	15	18	21	24	28	33	37	39	45	53	60	73	80	92	100	106	112	127
		36	15	16	20	23	27	30	33	37	41	561	55	62	74	83	94	97	107	113
		40	15	16	17	21	26	27	30	37	38	46	52	61	64	75	90	95	96	108
	5N@ 7.00	28	15	20	26	32	37	43	52	57	59	73	86	100	109	126	136			
		32	15	18	24	29	34	37	45	50	53	66	75	88	100	102	112	128	138	
		36	16	17	23	27	29	35	40	46	48	62	68	77	90	100	104	115	131	133
		40	16	17	22	25	27	33	37	43	47	56	63	70	80	95	102	107	115	125
	6N@ 5.83	28	17	24	30	37	44	52	58	65	73	93	103	115	134					
		32	16	21	27	33	38	46	53	57	65	79	96	100	117	139	140			
		36	16	20	25	31	36	41	48	54	58	70	81	99	102	113	121	142	144	
		40	16	20	24	28	34	38	44	49	55	64	77	84	101	104	115	123	145	146
	7N@ 5.00	28	19	27	34	43	52	59	66	74	86	101	115	135						
		32	17	24	30	39	47	53	61	67	75	97	103	118	137					
		36	17	23	28	35	42	48	55	62	69	82	99	105	120	141	144			
		40	17	22	27	32	39	44	50	55	63	73	86	102	107	118	133	147		
	8N@ 4.38	28	21	30	39	48	59	69	78	94	98	115	136							
		32	20	27	36	42	53	61	69	79	88	101	118	138						
		36	19	26	32	39	48	55	62	71	77	99	109	121	141					
		40	18	24	30	37	44	54	60	65	73	86	102	113	127	147	149			
38	4N@ 9.50	32	16	19	21	26	31	34	39	43	48	58	67	74	87	100	101	111	127	138
		36	15	17	21	24	28	33	35	39	44	53	60	74	75	93	97	106	112	123
		40	15	16	20	23	27	30	34	37	41	51	55	62	74	83	94	98	107	109
		44	16	16	20	22	26	28	30	35	38	46	52	58	65	75	90	95	95	108
	5N@ 7.60	32	15	20	25	31	36	42	46	52	59	70	86	96	101	111	126	137		
		36	16	20	24	28	33	38	45	47	53	64	74	89	98	103	112	129	138	
		40	16	20	23	26	31	35	40	46	48	59	70	78	91	101	105	113	117	134
		44	17	20	22	25	30	33	39	41	48	56	63	75	80	93	102	107	111	118
	6N@ 6.33	32	17	24	30	35	41	49	55	62	70	86	98	105	125	136				
		36	16	21	27	33	39	47	50	57	61	75	89	100	107	118	141	142		
		40	16	21	25	31	36	40	48	55	59	71	82	99	102	109	121	143	142	
		44	17	20	24	29	33	38	44	49	55	64	77	84	102	104	115	123	145	147
	8N@ 4.75	32	20	29	38	47	56	64	74	86	95	105	135							
		36	19	28	35	42	50	57	65	76	81	101	113	138	140					
		40	19	26	32	40	48	55	62	67	78	100	103	121	142	144				
		44	20	24	30	39	47	51	57	64	71	86	102	113	127	147	149			
40	4N@ 10.00	32	17	20	23	29	37	40	47	50	56	64	73	86	103	114	126	128	149	151
		36	17	19	22	29	31	37	40	44	51	57	65	74	87	103	104	125	127	128
		40	17	18	22	25	29	33	37	40	47	52	62	73	77	87	96	104	117	127
		44	16	17	20	24	29	31	36	38	41	49	59	66	74	78	84	96	106	106
		48	17	17	20	24	25	30	32	37	39	48	53	59	67	78	78	85	99	106
	5N@ 8.00	32	15	21	26	32	38	43	52	55	62	73	86	101	109	124	134			
		36	16	20	24	30	34	39	45	53	55	66	74	88	102	102	112	128	138	
		40	16	20	24	27	32	37	41	46	51	62	68	77	90	100	105	115	130	142
		44	17	20	23	29	32	37	41	49	50	58	70	82	84	99	116	118	130	141
		48	17	20	23	26	31	34	40	41	50	57	68	75	85	95	100	119	120	132
	6N@ 6.67	32	16	24	30	38	44	52	58	65	72	93	100	115	133					
		36	17	22	27	34	39	47	53	60	67	79	97	102	117	137	141			
		40	16	21	26	30	36	43	48	54	62	71	82	99	103	114	130	142		
		44	17	21	24	28	36	40	47	51	55	66	78	91	102	107	116	134	142	146
		48	17	21	24	31	36	42	46	53	57	69	79	86	100	109	132	133	135	164
	7N@ 5.71	32	18	26	33	43	52	58	66	74	86	101	115	135						
		36	17	24	31	39	47	53	61	67	75	97	103	117	136					
		40	17	24	29	35	43	49	55	62	69	82	99	105	119	140				
		44	20	22	28	33	39	48	55	59	64	78	92	102	111	122	143			
		48	20	23	28	36	41	48	54	61	66	80	86	108	122	134	136	164	167	
	8N@ 5.00	32	21	29	38	48	58	67	78	94	96	115	135							
		36	19	27	36	46	53	60	68	80	88	102	118	137						
		40	19	25	34	39	49	58	65	72	82	99	109	120	141					
		44	21	27	33	39	47	56	63	70	75	93	103	120	136	147				
		48	20	25	32	42	47	55	62	69	80	90	104	122	136	155	170			
	10N@ 4.00	32	29	39	51	64	79	92	112	123	125	149								
		36	25	36	47	60	69	81	94	103	125	150								
		40	24	36	45	56	66	75	82	96	115	129	152							
		44	23	32	41	51	60	71	82	84	99	119	143	161						
		48	23	32	41	52	58	68	76	85	94	121	134	152						

LRFD

GIRDER SPAN (ft.)	JOIST SPACES (ft.)	GIRDER DEPTH (in.)	JOIST GIRDER WEIGHT – POUNDS PER LINEAR FOOT FACTORED LOAD ON EACH PANEL POINT – KIPS																	
			6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0
42	4N@ 10.50	32	16	21	25	29	34	38	43	49	53	67	74	86	99	101	112	125	134	138
		36	16	19	22	26	32	35	39	44	47	58	67	73	87	95	101	112	118	129
		40	16	19	21	24	28	34	36	41	45	53	61	73	76	93	97	97	113	122
		44	16	19	20	23	27	31	34	38	42	51	55	62	74	84	94	97	108	109
		48	16	19	21	24	26	29	32	36	39	47	54	62	65	75	90	95	97	108
	5N@ 8.40	32	16	22	28	35	41	45	52	57	66	74	88	100	110	125				
		36	15	21	25	31	36	42	46	52	59	70	85	96	102	111	126	137		
		40	16	21	24	28	33	39	44	51	54	64	74	89	98	103	113	129	130	
		44	16	20	24	27	31	37	40	46	52	59	69	78	91	101	105	113	126	134
		48	17	20	23	27	30	35	39	42	48	57	63	75	81	95	102	107	115	118
	6N@ 7.00	32	18	25	32	39	45	55	61	69	77	93	103	124	135					
		36	17	23	30	35	41	49	56	60	67	79	96	105	117	137				
		40	17	21	26	33	39	46	54	57	61	75	89	100	108	119	141	142		
		44	16	21	24	31	35	41	48	54	59	71	81	100	102	109	121	143	142	
		48	20	20	25	29	33	39	44	49	56	64	77	85	102	104	115	124	145	147
	7N@ 6.00	32	20	28	36	45	52	65	72	85	93	102	125							
		36	19	26	34	40	49	56	67	74	79	98	110	127	138					
		40	18	24	31	38	46	54	61	68	75	90	101	113	129	142				
		44	20	23	29	35	41	49	55	63	70	78	100	106	116	132	145			
		48	18	23	28	34	39	44	50	56	64	73	92	102	108	118	136	149		
	8N@ 5.25	32	22	32	40	51	62	72	78	94	100	124	135							
		36	20	27	38	46	56	64	74	79	96	105	126	138						
		40	20	26	35	42	51	57	65	76	81	101	113	138	141					
		44	20	25	32	39	49	55	63	70	78	99	107	121	142	147				
		48	21	26	32	41	48	56	63	67	74	93	103	112	128	148				
	10N@ 4.20	32	27	38	52	62	77	94	101	114	134									
		36	25	36	46	60	70	86	97	102	112	140								
		40	24	34	45	54	64	75	89	99	104	129								
		44	23	31	41	52	61	70	79	91	100	114	143							
		48	23	30	39	49	56	66	72	80	93	107	125	146						
45	4N@ 11.25	36	18	21	25	28	33	38	42	46	52	62	72	79	95	100	112	117	128	138
		40	19	21	22	27	31	35	39	44	47	55	64	75	87	95	101	112	113	128
		44	19	21	22	24	29	33	37	39	45	53	61	74	76	89	95	102	108	114
		48	18	21	22	24	28	31	34	38	40	51	55	63	75	83	94	95	107	109
		52	18	22	23	24	27	29	33	37	39	47	52	60	66	76	91	95	96	109
	5N@ 9.00	36	16	22	27	33	38	44	52	55	63	74	86	101	109	125	136			
		40	16	21	25	30	36	42	45	53	56	68	75	88	102	111	122	128		
		44	16	21	24	29	34	38	44	46	54	65	74	85	90	103	110	123	130	142
		48	20	21	24	27	32	36	41	45	52	59	67	75	91	95	106	112	118	134
		52	20	21	24	27	30	35	39	42	48	57	64	75	81	94	98	107	117	119
	6N@ 7.50	36	19	24	31	38	45	52	58	66	74	93	100	115	134					
		40	19	23	28	34	40	47	53	60	67	79	97	103	117	137	140			
		44	19	21	27	32	38	46	50	54	62	76	90	100	107	118	139	142		
		48	20	21	26	30	36	42	48	55	59	69	78	92	102	110	122	143	143	
		52	20	21	25	29	34	39	44	50	56	64	77	85	102	102	116	124	136	148
	7N@ 6.43	36	20	27	35	44	52	58	66	74	86	101	115	135						
		40	20	26	33	40	47	54	61	67	75	97	105	127	138					
		44	20	24	30	39	46	54	61	62	69	90	100	113	129	143				
		48	20	23	29	36	41	49	55	63	70	79	92	107	117	133	145			
		52	18	23	28	34	39	45	50	56	65	73	93	102	109	118	136	149		
	8N@ 5.62	36	21	30	38	48	58	67	78	94	98	114	135							
		40	20	28	36	46	53	61	68	80	89	105	118	137						
		44	20	27	34	41	51	58	66	73	81	99	109	130	141					
		48	21	26	32	39	47	55	63	68	74	92	104	116	142	146				
		52	22	28	33	42	48	54	59	67	71	94	102	112	127	148				
	9N@ 5.00	36	24	34	45	55	66	74	88	98	104	135								
		40	22	31	39	49	61	69	80	89	100	113	138							
		44	23	31	39	48	58	66	76	89	99	108	132							
		48	23	29	37	47	55	63	70	79	91	106	117	133						
		52	23	28	36	46	55	60	70	73	84	102	112	135	148					
	10N@ 4.50	36	26	38	49	60	73	86	98	105	116	137								
		40	25	35	47	60	66	76	90	102	112	140								
		44	24	33	46	54	64	72	89	99	104	130	142							
		48	24	31	40	49	62	71	78	91	100	114	134							
		52	23	31	39	50	56	67	72	80	93	107	123	147						

LRFD

GIRDER SPAN (ft.)	JOIST SPACES (ft.)	GIRDER DEPTH (in.)	JOIST GIRDER WEIGHT – POUNDS PER LINEAR FOOT FACTORED LOAD ON EACH PANEL POINT – KIPS																	
			6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0
48	5N@ 9.60	36	19	26	31	37	45	52	59	66	71	87	111	113	135	136				
		40	19	23	29	35	41	46	52	59	68	77	92	112	114	136	138			
		44	19	22	27	32	37	44	48	54	61	69	80	93	113	116	126	139	150	
		48	19	21	25	30	36	40	48	48	55	69	78	90	96	115	116	128	140	142
		52	20	21	25	29	33	39	42	50	54	62	71	82	92	99	117	118	130	141
		56	20	21	24	29	33	38	40	46	50	59	71	79	85	100	100	119	120	133
	6N@ 8.00	36	20	28	35	42	51	62	70	78	83	100	122	134	147					
		40	19	25	33	39	47	56	64	71	79	93	112	124	137	148				
		44	19	24	31	36	45	50	57	65	73	81	102	115	127	138	151			
		48	19	23	30	35	40	48	52	59	67	78	95	105	116	129	141	160		
		52	20	23	27	32	38	46	51	59	60	75	83	97	107	130	131	144	162	
		56	20	22	27	31	37	42	48	54	61	69	80	91	107	120	132	134	153	165
	8N@ 6.00	36	30	36	45	56	64	78	91	100	122	134								
		40	28	33	42	51	59	70	80	92	101	124	148							
		44	27	32	39	49	55	65	74	82	95	114	127	150						
		48	26	30	37	47	53	60	68	76	84	105	129	131	154					
		52	26	30	36	44	51	59	65	71	80	99	119	132	146	164				
		56	25	28	36	43	49	57	63	69	78	90	109	123	136	155				
	9N@ 5.33	36	35	44	55	70	79	91	99	121	122	146								
		40	34	42	52	63	74	88	93	101	113	136								
		44	33	39	50	59	69	83	91	94	103	126	150							
		48	33	37	46	56	66	76	85	94	97	118	130							
		52	31	36	46	54	63	72	80	95	101	108	132	152						
		56	31	35	44	53	62	69	80	89	98	103	123	137	165					
	12N@ 4.00	36	35	52	71	84	100	123	135	148										
		40	34	48	65	76	93	113	125	137	149									
		44	31	44	57	73	82	102	115	126	139									
		48	30	41	53	67	76	88	104	117	130	153								
		52	30	39	52	61	76	84	97	107	131	144								
		56	27	38	49	61	70	81	91	108	122	135	165							
50	5N@ 10.00	40	18	23	30	38	44	47	56	60	68	79	93	113	124	136	138			
		44	17	22	29	34	40	46	51	56	61	76	89	94	113	126	137	139		
		48	19	22	28	31	38	42	48	55	61	69	78	94	96	115	127	139	141	
		52	20	22	25	31	35	40	45	49	55	62	74	82	96	116	117	129	141	142
		56	20	22	25	30	32	40	43	50	51	63	71	83	92	99	117	119	131	142
		60	20	20	24	30	33	36	42	46	51	58	65	76	86	96	101	120	121	133
	6N@ 8.33	40	20	28	34	42	48	56	64	71	80	100	112	124	147					
		44	19	24	31	38	47	50	57	65	73	85	102	124	127	149				
		48	19	23	30	37	40	49	57	65	67	82	95	115	127	129	151			
		52	20	23	30	36	40	46	52	59	67	75	84	105	117	129	131	153	162	
		56	20	23	26	33	39	42	51	54	60	72	84	98	107	120	132	144	163	164
		60	21	23	27	33	38	43	49	53	61	70	80	87	102	110	123	134	154	165
	8N@ 6.25	40	22	31	39	51	59	67	78	86	96	110	135							
		44	21	29	37	47	53	61	70	80	96	103	118	139						
		48	21	27	35	42	51	58	69	76	81	99	114	130	142					
		52	21	25	33	40	49	55	63	70	78	99	107	121	141					
		56	24	29	36	42	47	56	64	68	78	94	108	118	137	148				
		60	24	27	35	40	47	55	61	69	74	83	103	110	123	139	149			
	9N@ 5.56	40	24	34	44	55	66	74	86	96	104	134								
		44	23	32	40	53	61	69	80	88	98	113	138							
		48	24	32	42	52	58	69	77	90	99	111	133							
		52	24	31	40	47	58	66	74	79	92	106	126	143						
		56	24	30	38	46	55	60	68	77	89	102	116	135						
		60	24	32	38	49	53	61	70	75	83	97	111	125	141					
	10N@ 5.00	40	26	38	49	60	74	87	96	104	116	136								
		44	25	36	47	60	68	84	96	102	112	140								
		48	24	34	46	54	65	76	89	99	103	130								
		52	24	34	45	52	62	70	79	91	100	114	134							
		56	23	32	41	48	60	70	76	87	93	107	134	146						
		60	24	31	40	49	57	66	73	81	94	109	119	138						
	12N@ 4.17	40	34	49	65	80	100	112	125	147										
		44	31	44	57	73	86	102	126	127	149									
		48	30	41	58	67	82	96	115	127	130	154								
		52	30	39	53	68	76	84	105	118	130	154								
		56	27	40	52	61	70	85	99	108	122	135	164							
		60	27	39	49	61	70	82	88	104	112	135	166							

LRFD

GIRDER SPAN (ft.)	JOIST SPACES (ft.)	GIRDER DEPTH (in.)	JOIST GIRDER WEIGHT – POUNDS PER LINEAR FOOT FACTORED LOAD ON EACH PANEL POINT – KIPS																	
			6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
55	5N@ 11.00	44	21	21	24	25	29	32	35	38	41	43	47	53	59	63	71	82	83	86
		48	21	21	23	24	28	30	32	35	38	41	43	49	56	60	64	71	73	83
		52	20	22	23	25	27	29	32	33	36	39	42	44	52	57	65	66	74	74
		56	20	21	24	24	26	28	31	33	36	37	39	44	51	53	58	66	66	74
		60	23	24	24	24	27	27	31	33	35	38	38	45	47	52	60	61	67	68
		66	24	24	24	25	26	28	28	33	34	37	37	42	47	48	55	56	62	69
	6N@ 9.17	44	19	22	26	29	33	36	38	43	45	51	52	59	66	75	86	86	98	101
		48	20	22	24	28	31	33	36	40	44	46	50	56	64	68	75	87	89	98
		52	20	22	24	26	29	33	35	37	41	59	59	66	74	86	93	99	109	110
		56	18	21	24	25	28	31	35	36	39	42	47	52	55	63	70	71	78	91
		60	20	21	24	25	29	30	33	35	38	39	43	48	55	60	64	71	75	80
		66	19	20	22	24	28	30	31	33	36	39	40	47	50	56	62	65	73	73
	7N@ 7.86	44	21	24	28	33	36	39	44	50	53	59	59	70	75	87	97	102	111	120
		48	21	24	27	31	34	38	43	45	51	54	56	65	72	76	89	98	103	110
		52	21	23	26	29	33	36	39	44	46	52	55	62	69	74	86	91	100	105
		56	20	22	25	28	31	35	38	40	46	48	53	55	64	70	79	87	92	101
		60	21	22	24	27	30	33	36	39	41	47	49	56	64	68	72	81	93	94
		66	22	22	24	26	30	32	36	37	40	43	48	52	58	65	70	74	83	84
	9N@ 6.11	44	24	29	34	39	46	52	55	60	67	74	74	87	98	105	116	135	137	
		48	24	28	32	38	40	47	53	57	61	68	69	81	97	103	107	118	129	139
		52	25	30	33	39	43	47	52	57	65	65	73	77	90	104	105	114	125	133
		56	24	29	32	38	43	46	51	53	59	66	67	75	87	92	105	107	117	128
		60	24	27	32	36	40	45	47	52	56	60	67	71	80	93	95	108	109	118
		66	24	27	31	35	39	42	46	49	54	58	61	71	78	83	91	97	111	113
	11N@ 5.00	44	30	36	43	49	55	63	67	74	87	88	97	106	126	137				
		48	28	33	39	45	54	61	65	69	76	87	89	103	112	128	139			
		52	27	34	37	44	52	55	62	66	73	77	88	99	105	115	131	142		
		56	27	33	39	42	48	54	60	64	68	77	80	93	102	107	118	134	146	
		60	26	31	37	40	47	49	58	64	67	72	77	82	95	108	110	121	137	148
		66	26	31	36	39	45	50	54	60	65	68	74	82	97	98	113	117	126	141
60	5N@ 12.00	48	21	23	27	29	33	35	39	43	44	49	51	57	63	69	76	87	89	94
		52	21	22	27	28	31	33	36	40	44	45	47	52	60	65	69	77	85	90
		56	22	23	24	28	30	31	34	36	41	44	45	52	59	63	69	74	78	87
		60	22	23	24	28	29	32	34	35	40	42	45	49	53	60	66	70	75	80
		66	24	24	24	26	30	30	33	35	36	38	42	47	51	56	61	67	72	73
		72	25	25	25	25	27	30	31	35	36	37	39	45	48	56	56	63	69	70
	6N@ 10.00	48	20	24	29	32	36	38	41	47	49	56	60	67	72	80	93	93	112	113
		52	20	23	28	30	33	37	39	46	48	50	57	62	69	78	80	94	94	113
		56	19	24	25	30	33	38	39	42	48	49	51	58	66	69	79	83	95	96
		60	19	23	24	29	32	34	39	40	43	49	50	57	63	70	75	83	83	96
		66	19	23	24	27	32	32	34	40	42	44	50	52	61	65	69	77	84	85
		72	22	22	24	27	28	33	34	36	41	43	44	52	54	63	68	71	75	87
	8N@ 7.50	48	24	29	34	39	43	49	56	57	64	72	72	80	93	112	123	125	136	148
		52	23	29	31	37	40	48	50	57	58	66	72	81	94	103	114	125	127	139
		56	23	26	31	36	38	44	49	51	58	60	66	75	83	96	104	116	127	129
		60	23	26	32	33	39	42	47	50	53	59	61	69	77	85	98	106	118	129
		66	28	30	33	34	41	43	46	48	53	57	62	70	78	82	90	100	108	120
		72	29	30	31	34	36	41	46	47	52	58	59	66	73	80	90	92	104	110
	10N@ 6.00	48	26	32	37	44	49	55	60	67	74	79	87	97	105	118	137	138		
		52	28	34	38	44	50	56	64	65	71	75	88	97	103	113	130	138		
		56	27	33	37	43	46	51	58	66	65	72	76	90	104	105	123	131	143	
		60	25	31	37	39	45	51	57	60	66	70	73	86	93	104	111	126	134	
		66	27	32	37	42	49	51	56	62	65	72	74	85	95	102	120	122	134	145
		72	26	32	33	38	42	47	50	55	59	66	69	74	83	96	98	111	111	121
	12N@ 5.00	48	33	39	46	53	59	68	75	86	87	97	102	111	135					
		52	31	37	45	51	57	65	69	76	88	89	98	104	118	139				
		56	29	36	41	48	55	62	66	72	77	89	91	104	113	129	140			
		60	30	35	39	47	54	56	64	73	74	79	91	102	106	116	133	145		
		66	32	35	41	48	53	61	62	70	77	80	87	100	110	122	134	147	164	
		72	29	33	38	42	50	52	60	61	69	72	77	86	100	110	114	127	142	151
	15N@ 4.00	48	40	49	64	72	80	93	102	113	124	126	136							
		52	39	48	57	66	74	81	94	103	114	126	127	150						
		56	38	46	53	67	71	80	83	96	104	116	127	140	153					
		60	38	42	51	60	68	76	83	89	98	106	118	132	144					
		66	35	41	49	55	62	70	81	87	87	103	110	123	136	153	167			
		72	35	44	46	55	64	66	77	85	90	93	106	125	139	142	160	171		

LRFD

GIRDER SPAN (ft.)	JOIST SPACES (ft.)	GIRDER DEPTH (in.)	JOIST GIRDER WEIGHT – POUNDS PER LINEAR FOOT FACTORED LOAD ON EACH PANEL POINT – KIPS																		
			6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
65	6N@ 10.83	52	22	28	30	33	39	41	45	49	54	58	61	69	78	83	95	97	115	116
		56	21	25	29	33	35	40	42	48	49	55	58	63	70	80	84	97	97	117
		60	23	24	29	32	34	39	41	44	50	50	56	64	71	76	82	92	98	99
		66	22	24	26	31	33	35	40	42	45	51	51	58	65	73	78	83	87	100
		72	24	25	27	31	32	35	37	42	43	47	49	54	60	68	76	80	87	89
	8N@ 8.12	52	25	31	38	40	44	51	58	62	66	74	74	83	97	115	127	129	141	153
		56	24	30	34	39	43	50	52	59	63	68	74	83	97	105	118	129	131	143
		60	23	28	33	39	41	47	51	53	60	68	69	77	85	99	108	119	130	133
		66	24	28	33	35	42	44	49	52	56	63	63	75	80	89	101	110	122	124
		72	38	39	39	39	42	45	47	52	56	58	65	73	78	89	92	104	113	125
	9N@ 7.22	52	30	32	38	44	49	58	62	67	74	79	83	97	116	128	129	142	153	
		56	26	32	39	42	48	53	59	68	68	76	81	98	106	118	130	142	144	155
		60	25	32	38	40	47	51	58	60	69	70	78	86	100	109	120	132	145	146
		66	28	32	37	41	44	50	53	60	64	71	72	81	89	103	112	124	136	138
		72	29	30	35	38	44	46	52	57	62	66	71	79	91	91	108	115	127	140
	10N@ 6.50	52	31	36	41	49	58	62	67	75	82	89	97	116	128	131	154	155		
		56	31	36	40	46	52	60	68	69	77	85	91	107	119	132	144			
		60	29	34	40	44	51	57	61	70	74	78	87	100	109	122	134	146		
		66	27	34	39	43	50	54	60	65	72	74	82	90	103	113	125	138	140	163
		72	27	33	37	44	47	52	56	62	67	75	76	87	93	110	127	129	141	143
	11N@ 5.91	52	33	39	45	52	59	67	75	83	89	98	106	118	131	153				
		56	32	39	44	51	60	64	69	77	85	91	99	119	132	144	156			
		60	33	38	44	49	55	63	70	74	79	86	92	109	122	134	147			
		66	30	37	42	46	54	57	64	72	73	81	90	104	113	125	139	147	164	
		72	30	36	41	47	51	57	62	67	77	77	88	93	110	118	131	144	156	173
	13N@ 5.00	52	37	45	55	64	72	79	89	98	106	117	130	142						
		56	37	43	53	61	69	77	86	91	99	108	120	133	146					
		60	35	41	50	58	64	71	77	85	93	100	108	131	134	158				
		66	34	41	49	53	62	70	75	80	87	93	102	122	134	137	161			
		72	34	41	46	53	58	64	72	78	85	90	90	113	127	138	141	170		
70	7N@ 10.00	56	24	25	30	35	39	43	46	51	56	57	64	71	83	88	102	102	110	121
		60	23	26	30	33	37	43	44	50	52	57	61	66	73	85	90	102	105	111
		66	24	27	30	32	35	39	44	46	51	53	58	67	73	75	87	93	104	106
		72	24	25	29	32	34	38	42	46	47	53	54	60	69	76	78	89	94	102
		78	25	26	28	31	34	37	40	43	47	49	50	58	63	71	78	83	90	96
		84	24	27	29	31	35	37	39	42	44	49	51	57	65	69	72	80	85	94
	9N@ 7.78	56	26	31	37	40	45	53	56	61	67	72	75	88	102	110	122	128		
		60	25	30	35	39	45	47	54	61	65	70	73	89	99	105	114	129	131	
		66	31	34	38	43	48	51	56	63	67	70	74	86	92	106	112	122	127	
		72	32	33	37	43	45	51	56	58	64	67	69	77	89	100	108	114	124	131
		78	32	34	36	39	45	48	53	59	60	66	66	76	87	93	102	110	116	118
		84	33	34	35	38	45	47	50	55	59	63	67	72	81	94	95	103	113	118
	10N@ 7.00	56	27	34	38	45	53	57	60	68	75	80	88	100	106	118	137			
		60	30	36	41	48	55	60	65	69	71	84	88	102	109	122	130			
		66	29	35	42	44	51	55	62	66	70	73	85	91	105	109	123	132		
		72	30	34	38	43	47	52	59	63	66	69	78	88	94	106	112	127	133	
		78	30	33	37	40	46	51	55	61	65	71	71	79	94	96	108	115	130	137
		84	31	33	36	40	47	49	55	57	63	70	72	80	92	98	109	112	121	133
	11N@ 6.36	56	32	41	45	51	60	64	71	83	87	89	102	108	127	138				
		60	30	39	44	50	57	65	66	73	85	89	90	104	114	129				
		66	31	38	43	46	53	59	67	67	76	86	88	105	106	117	132			
		72	32	37	42	48	55	57	62	70	70	78	82	94	108	109	119	136	148	
		78	29	35	40	47	50	55	61	65	73	72	80	92	98	110	118	124	140	141
		84	30	36	39	45	49	52	59	66	68	73	78	84	97	102	116	124	129	144
	12N@ 5.83	56	34	41	50	56	63	68	76	87	88	102	103	113	129					
		60	33	39	46	55	58	65	74	76	89	90	103	112	128	139				
		66	32	37	45	48	55	63	67	76	78	90	92	105	115	130	143			
		72	32	37	42	48	55	61	65	69	77	80	89	102	107	119	135	148		
		78	30	36	42	48	51	56	64	70	72	80	84	97	106	113	123	141	151	
		84	30	36	40	45	51	53	61	68	73	77	83	89	102	115	118	128	144	151
	14N@ 5.00	56	36	44	53	63	71	75	87	96	102	111	120	137						
		60	37	43	54	61	69	75	88	89	99	103	112	128						
		66	35	42	48	55	64	70	77	90	92	102	106	115	132					
		72	34	40	49	55	61	69	73	81	91	95	103	110	120	138				
		78	33	39	44	52	58	67	72	76	84	92	97	111	120	138	141			
		84	33	40	44	51	58	62	69	78	79	86	97	106	116	127	143	155		

LRFD

GIRDER SPAN (ft.)	JOIST SPACES (ft.)	GIRDER DEPTH (in.)	JOIST GIRDER WEIGHT – POUNDS PER LINEAR FOOT FACTORED LOAD ON EACH PANEL POINT – KIPS																	
			6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
75	8N@ 9.38	56	29	33	40	43	49	55	61	65	73	79	82	95	115	116	128	140	152	
		60	26	32	38	42	48	51	58	63	70	75	80	92	97	116	118	130	142	153
		66	27	32	35	41	44	51	53	60	64	69	72	82	98	99	118	120	132	144
		72	26	32	34	41	43	46	52	58	61	66	71	79	87	100	101	121	122	134
		78	27	29	34	37	43	45	54	54	61	64	69	77	81	89	103	105	123	125
	10N@ 7.50	60	32	39	42	50	59	67	69	76	83	89	98	117	129	131	154			
		66	32	37	42	49	55	62	69	70	78	86	87	100	119	132	134			
		72	30	36	42	45	54	57	63	72	73	81	86	101	111	123	136	138		
		78	31	35	39	46	48	56	63	66	74	75	82	91	105	114	127	139	152	
		84	31	36	39	45	49	55	59	65	69	77	78	94	95	110	128	131	143	156
	12N@ 6.25	60	38	43	51	59	68	76	84	90	98	106	118	131	144					
		66	35	42	50	55	62	70	79	87	90	100	110	122	135	148				
		72	36	41	46	54	63	65	73	81	90	91	104	124	126	141	154			
		78	35	42	47	54	61	68	76	78	86	90	98	105	126	139	152	163		
		84	34	39	46	52	56	64	70	78	79	90	92	106	126	139	141	164	171	
	14N@ 5.36	66	41	48	56	63	72	80	89	102	111	122	125	137						
		72	41	46	52	61	70	75	84	95	101	110	121	134	148					
		78	37	44	53	61	68	76	80	89	98	103	107	125	139	151				
		84	38	44	52	57	64	71	79	86	92	100	108	127	130	153	171			
		90	37	42	50	58	66	73	77	87	94	94	110	119	142	144	173	176		
	15N@ 5.00	66	41	52	60	69	77	85	98	106	118	120	132	146						
		72	42	52	59	67	74	84	87	99	110	121	123	146	160					
		78	41	47	54	65	73	77	88	91	104	112	124	139	152	169				
		84	39	46	55	63	67	76	86	92	93	109	116	131	143	171	174			
		90	38	46	52	60	69	74	81	90	95	103	118	133	145	146	177			
80	8N@ 10.00	60	28	31	37	42	45	51	56	63	64	72	75	88	97	103	112	127	137	
		66	30	31	35	38	45	47	52	57	62	65	70	77	90	103	105	113	129	131
		72	29	32	33	38	41	46	48	53	59	63	68	76	87	92	106	108	116	126
		78	30	31	33	37	41	42	47	53	56	60	64	73	81	88	94	109	111	118
		84	30	32	35	37	39	43	48	52	56	59	63	71	79	83	96	98	112	114
		90	53	54	56	56	57	57	58	60	63	67	70	79	79	90	95	103	105	118
	10N@ 8.00	60	31	35	41	47	53	60	68	75	76	88	97	103	112	129	139			
		66	31	35	39	46	52	55	62	70	75	78	90	100	107	115	132	142		
		72	33	37	43	50	55	62	63	70	74	83	87	97	106	120	127			
		78	32	36	42	46	51	56	63	68	71	76	86	90	100	112	122	130		
		84	33	37	42	45	51	57	61	65	70	77	78	91	100	109	115	125	131	
		90	34	36	40	44	49	53	60	65	68	72	77	87	92	102	111	118	132	136
	12N@ 6.67	66	36	44	50	57	65	70	73	86	90	103	103	115	130					
		72	34	42	47	54	59	67	72	77	86	92	101	107	125	133				
		78	33	39	46	53	60	65	69	79	80	88	94	108	114	129	136			
		84	34	38	47	49	56	63	70	72	79	83	92	99	111	121	138	140		
		90	36	39	44	50	56	59	66	72	74	82	86	101	113	116	125	143	149	
		96	34	37	43	50	54	60	68	71	75	79	85	98	104	117	120	130	147	156
	14N@ 5.71	66	39	47	57	64	73	77	89	98	103	109	113	129						
		72	38	46	54	59	67	76	79	91	101	106	106	125	143					
		78	36	43	50	58	66	70	78	90	95	96	109	118	136	149				
		84	36	42	50	56	64	71	74	80	92	98	99	112	124	143				
		90	36	41	48	53	61	68	74	82	86	95	100	115	121	136	146			
		96	37	40	47	53	61	67	74	79	84	88	100	108	118	127	145	152		
	16N@ 5.00	66	42	53	62	70	78	90	101	105	113	129	130							
		72	41	50	57	69	76	81	93	102	109	116	118	145						
		78	41	49	58	66	73	83	91	96	104	112	120	137	149					
		84	39	45	54	61	69	76	84	97	100	109	115	126	143					
		90	39	46	54	62	70	74	80	86	101	102	114	119	144	155				
		96	40	46	55	58	68	73	81	88	94	106	110	121	133	155	164			

LRFD

GIRDER SPAN (ft.)	JOIST SPACES (ft.)	GIRDER DEPTH (in.)	JOIST GIRDER WEIGHT – POUNDS PER LINEAR FOOT FACTORED LOAD ON EACH PANEL POINT – KIPS																	
			6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
90	9N@ 10.00	72	40	42	46	49	55	60	64	72	81	82	92	98	117	119	141	143		
		84	41	44	48	48	50	54	60	67	75	76	84	88	102	121	124	135	148	149
		90	54	55	56	56	57	59	62	65	72	77	85	88	99	105	125	128	138	
		96	55	56	57	57	58	59	64	65	69	74	80	91	98	107	110	128	131	142
		102	55	57	57	58	59	60	62	65	69	74	75	87	95	105	112	130	133	134
	10N@ 9.00	72	42	46	48	52	61	64	72	78	85	93	99	118	130	142	155			
		84	42	45	49	51	58	62	69	73	81	94	97	115	117	137	148			
		90	42	46	50	51	56	60	66	71	79	81	89	100	107	126	129	141		
		96	43	46	48	53	56	59	66	70	74	82	87	95	108	113	129	133	153	
		102	43	45	48	53	57	60	65	69	76	77	84	97	105	115	124	131	137	155
	11N@ 8.18	72	43	47	51	59	65	73	78	86	99	100	119	120	143					
		84	43	49	50	55	62	67	74	78	87	91	100	113	126	138	150			
		90	45	48	51	53	59	66	72	77	85	90	93	107	128	129	142			
		96	47	48	53	56	60	63	71	75	81	87	95	105	113	132	134	148		
		102	48	49	57	58	61	64	70	73	82	86	94	101	116	124	138	150	163	
	12N@ 7.50	78	44	49	53	60	68	72	79	88	102	103	111	124	149					
		84	45	49	52	56	65	75	79	84	91	103	105	125	137	149				
		90	46	50	52	60	68	75	79	88	89	100	106	126	128	151	152			
		96	46	48	52	58	63	72	76	82	90	93	103	110	129	132	153	156		
		108	45	49	55	56	64	66	76	81	85	92	97	107	115	135	137	160	168	
	15N@ 6.00	78	47	54	66	75	82	94	99	120	121	133	145	148						
		84	49	54	62	68	76	86	97	103	122	124	125	149						
		90	50	52	60	69	78	82	90	99	106	125	127	140	153					
		96	48	53	58	66	72	80	93	95	108	112	129	131	154	173				
		108	51	57	59	64	72	78	87	99	101	109	115	136	139	168	172			
	18N@ 5.00	78	51	62	74	84	99	102	120	133	145	148	159							
		84	51	61	73	80	89	104	113	124	137	150	151							
		90	52	58	70	79	90	93	106	126	129	142	153	166						
		96	53	58	68	78	87	95	108	113	131	133	144	158						
		108	57	59	64	76	85	95	103	113	120	127	139	151	172					
100	10N@ 10.00	78	45	49	52	55	58	62	68	75	79	91	92	106	115	131	140			
		84	47	50	53	55	58	61	69	72	77	81	93	102	109	118	133	143		
		96	55	56	56	57	62	64	68	74	84	86	87	102	116	125	126			
		102	55	56	57	58	61	64	66	73	77	86	89	100	106	121	127	133		
		108	56	57	58	59	61	64	67	70	76	80	87	92	106	107	127	130		
	12N@ 8.33	78	48	53	56	62	70	74	86	92	97	105	112	124						
		84	48	52	55	63	68	72	84	88	98	99	107	126	133					
		96	47	51	55	58	66	67	75	81	91	93	102	111	116	131				
		102	48	52	55	58	62	69	73	79	90	94	95	113	118	133	141			
		108	48	51	55	59	62	70	72	76	85	92	97	106	117	123	139	149		
	15N@ 6.67	78	53	56	67	75	86	91	104	106	115	125	133							
		84	53	56	61	69	78	88	94	107	113	118	128							
		96	52	56	61	68	72	82	93	99	105	114	118	133						
		102	53	56	60	66	74	83	85	97	102	116	117	125	144					
		108	53	56	59	65	73	77	87	99	103	104	118	123	140	149				
	16N@ 6.25	84	53	58	69	72	80	92	106	107	117	127	133							
		96	53	57	63	71	75	85	98	100	115	115	124	140						
		102	53	57	62	66	74	84	97	102	111	117	118	136	154					
		108	54	58	62	67	76	82	87	100	104	117	118	129	148					
		120	56	61	64	70	76	83	86	93	104	109	116	128	140	161				
	17N@ 5.88	84	55	61	70	77	88	94	107	114	127	133	145							
		96	54	59	65	72	80	93	99	113	115	121	135	151						
		102	55	59	66	73	79	87	98	102	118	118	127	144						
		108	55	60	65	69	78	87	91	105	107	119	120	140	160					
		120	56	62	67	71	78	87	93	100	110	112	125	133	149	168				
	18N@ 5.56	84	55	61	70	81	94	102	109	118	134	144								
		96	55	60	65	72	84	97	100	114	120	124	140							
		102	56	61	66	73	84	89	102	112	118	125	137	154						
		108	57	60	68	73	82	91	104	106	119	121	130	148						
		120	59	64	69	75	84	88	98	108	113	122	129	142	163					
	20N@ 5.00	84	58	66	77	94	103	109	118	134	146									
		96	60	65	73	83	99	108	115	123	125	144	153							
		102	59	65	71	80	89	103	114	121	129	147	147							
		108	60	67	71	80	89	106	110	123	126	134	149	164						
		120	68	73	90	101	108	113	123	133	152	155	166	182	200					

LRFD

GIRDER SPAN (ft.)	JOIST SPACES (ft.)	GIRDER DEPTH (in.)	JOIST GIRDER WEIGHT – POUNDS PER LINEAR FOOT FACTORED LOAD ON EACH PANEL POINT – KIPS																	
			6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0
110	10N@ 11.00	84	54	58	61	65	69	73	82	83	94	99	100	120	143	144				
		96	62	62	63	65	69	72	81	82	91	97	98	107	125					
		108	63	63	64	67	69	72	75	82	86	91	95	105	113	131	133			
		114	63	64	67	68	72	73	76	79	86	88	96	108	115	133	136			
		120	64	64	66	69	72	74	76	81	83	88	90	100	111	128	137	140		
	12N@ 9.17	84	58	62	66	70	74	84	88	101	109	120	122	144						
		96	57	62	66	70	74	79	88	92	101	107	125	127	151					
		108	58	64	68	72	75	79	84	90	95	106	111	132	136	158				
		114	59	65	66	71	75	79	84	89	102	106	107	126	134	156	158			
		120	59	62	67	72	74	79	82	91	96	107	109	126	135	158	161			
	14N@ 7.86	84	60	66	71	76	84	97	102	122	123	134	147							
		96	60	65	69	74	83	95	100	105	124	125	136	150						
		108	60	64	69	72	78	87	99	103	108	120	128	142	155					
		114	61	65	69	74	79	84	93	103	105	111	124	133	157					
		120	60	66	69	74	80	82	90	96	106	109	126	135	158	160				
	16N@ 6.88	96	62	68	72	79	89	104	106	125	126	147	149							
		102	63	67	74	80	89	103	108	125	127	128	152	156						
		108	64	68	73	81	83	95	104	110	127	130	142	158						
		114	65	70	74	80	86	95	105	111	114	132	135	161	162					
		120	66	69	75	81	88	97	99	109	117	135	138	152	165					
	18N@ 6.11	96	64	71	77	87	99	106	125	127	148	151								
		102	66	70	80	89	101	109	127	128	139	152	153							
		108	66	71	77	83	94	106	111	129	131	144	157							
		114	67	73	79	85	97	107	113	132	134	137	159	163						
		120	68	74	79	88	91	101	110	118	136	139	152	166						
	20N@ 5.50	96	68	77	82	99	106	125	139	152	154									
		102	69	75	81	94	109	129	130	142	154	155								
		108	69	77	83	94	106	114	132	133	145	157	169							
		114	69	77	86	91	101	115	134	135	147	160	161							
		120	66	72	77	83	93	106	113	126	128	137	154	167						
120	10N@ 12.00	96	63	66	69	72	76	78	82	86	89	89	94	108	115	129				
		102	64	67	69	71	75	79	83	83	86	91	92	110	117	131	137			
		108	78	79	82	83	83	83	86	91	95	94	100	108	126					
		114	78	79	82	83	83	84	86	91	90	95	95	109	127	128				
		120	79	81	83	84	84	85	86	88	92	92	97	102	113	133				
	12N@ 10.00	96	68	69	71	77	82	86	90	99	100	113	125	130						
		102	68	69	72	78	80	85	88	96	101	102	116	130						
		108	69	70	72	75	81	86	90	91	99	103	105	128	134					
		114	70	70	71	75	82	86	87	92	95	100	130	121	135					
		120	70	71	72	76	80	84	88	92	93	102	107	123	133	138				
	15N@ 8.00	96	69	74	77	82	90	96	109	115	125	129	134							
		102	70	73	78	84	88	93	103	113	118	129	132							
		108	70	73	80	85	90	95	101	106	115	119	133							
		114	70	73	78	83	88	93	98	107	117	121	122	137						
		120	72	74	78	84	89	94	99	100	110	118	124	140						
	16N@ 7.50	96	70	76	80	85	90	100	109	114	128	134								
		102	70	74	78	86	92	97	110	112	120	131	137							
		108	70	74	80	85	90	95	100	114	120	124	133							
		114	70	73	81	86	91	96	101	107	117	122	135	145						
		120	70	75	79	85	90	94	99	103	118	119	126	147						
	18N@ 6.67	96	71	77	85	89	95	109	116	129	136									
		102	72	78	83	87	97	111	113	121	138	138								
		108	72	79	84	88	94	101	115	121	156	157								
		114	72	76	85	90	96	102	116	117	123	136	143							
		120	73	77	84	89	95	99	105	118	125	129	140							
	20N@ 6.00	96	76	82	89	94	110	116	130	136										
		102	75	83	87	92	105	114	123	140	150									
		108	75	81	88	94	101	115	121	135	142	152								
		114	77	82	87	93	103	113	119	128	138	146								
		120	77	84	90	96	102	107	121	124	133	148	150							
	24N@ 5.00	96	83	90	96	111	121	136												
		102	81	88	99	108	118	140	151											
		108	83	91	96	103	119	129	147	157										
		114	86	96	109	121	141	143	152	160										
		120	86	97	107	117	143	146	152	163	165									

STANDARD ASD LOAD TABLE

OPEN WEB STEEL JOISTS, K-SERIES

Based on a 50 ksi Maximum Yield Strength
Adopted by the Steel Joist Institute November 4, 1985
Revised to November 10, 2003 - Effective March 01, 2005

The black figures in the following table give the TOTAL safe uniformly distributed load-carrying capacities, in pounds per linear foot, of **ASD K-Series** Steel Joists. The weight of DEAD loads, including the joists, must be deducted to determine the LIVE load-carrying capacities of the joists. Sloped parallel-chord joists shall use span as defined by the length along the slope.

The figures shown in **RED** in this load table are the nominal 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 **RED** by 1.5. In no case shall the TOTAL load capacity of the joists be exceeded.

The approximate joist weights per linear foot shown in these tables do not include accessories.

The approximate moment of inertia of the joist, in inches^4 is;

$I_j = 26.767(W_{LL})(L^3)(10^{-6})$, where W_{LL}= **RED** figure in the Load Table and L = (Span - 0.33) in feet.

For the proper handling of concentrated and/or varying loads, see Section 6.1 in the Code of Standard Practice for Steel Joists and Joist Girders.

Where the joist span exceeds the unshaded area of the Load Table, the row of bridging nearest the mid span shall be diagonal bridging with bolted connections at the chords and intersections.

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STANDARD LOAD TABLE FOR OPEN WEB STEEL JOISTS, K-SERIES
Based on a 50 ksi Maximum Yield Strength - Loads Shown in Pounds per Linear Foot (plf)

Joist Designation	8K1	10K1	12K1	12K3	12K5	14K1	14K3	14K4	14K6	16K2	16K3	16K4	16K5	16K6	16K7	16K9
Depth (in.)	8	10	12	12	12	14	14	14	14	16	16	16	16	16	16	16
Approx. Wt (lbs./ft.)	5.1	5.0	5.0	5.7	7.1	5.2	6.0	6.7	7.7	5.5	6.3	7.0	7.5	8.1	8.6	10.0
Span (ft.) ↓																
8	550 550															
9	550 550															
10	550 480	550 550														
11	532 377	550 542														
12	444 288	550 455	550 550	550 550	550 550											
13	377 225	479 363	550 510	550 510	550 510											
14	324 179	412 289	500 425	550 463	550 463	550 550	550 550	550 550	550 550							
15	281 145	358 234	434 344	543 428	550 434	511 475	550 507	550 507	550 507							
16	246 119	313 192	380 282	476 351	550 396	448 390	550 467	550 467	550 467	550 550	550 550	550 550	550 550	550 550	550 550	550 550
17		277 159	336 234	420 291	550 366	395 324	495 404	550 443	550 443	512 488	550 526	550 526	550 526	550 526	550 526	550 526
18		246 134	299 197	374 245	507 317	352 272	441 339	530 397	550 408	456 409	508 456	550 490	550 490	550 490	550 490	550 490
19		221 113	268 167	335 207	454 269	315 230	395 287	475 336	550 383	408 347	455 386	547 452	550 455	550 455	550 455	550 455
20		199 97	241 142	302 177	409 230	284 197	356 246	428 287	525 347	368 297	410 330	493 386	550 426	550 426	550 426	550 426
21			218 123	273 153	370 198	257 170	322 212	388 248	475 299	333 255	371 285	447 333	503 373	548 405	550 406	550 406
22			199 106	249 132	337 172	234 147	293 184	353 215	432 259	303 222	337 247	406 289	458 323	498 351	550 385	550 385
23			181 93	227 116	308 150	214 128	268 160	322 188	395 226	277 194	308 216	371 252	418 282	455 307	507 339	550 363
24			166 81	208 101	282 132	196 113	245 141	295 165	362 199	254 170	283 189	340 221	384 248	418 269	465 298	550 346
25						180 100	226 124	272 145	334 175	234 150	260 167	313 195	353 219	384 238	428 263	514 311
26						166 88	209 110	251 129	308 156	216 133	240 148	289 173	326 194	355 211	395 233	474 276
27						154 79	193 98	233 115	285 139	200 119	223 132	268 155	302 173	329 188	366 208	439 246
28						143 70	180 88	216 103	265 124	186 106	207 118	249 138	281 155	306 168	340 186	408 220
29										173 95	193 106	232 124	261 139	285 151	317 167	380 198
30										161 86	180 96	216 112	244 126	266 137	296 151	355 178
31										151 78	168 87	203 101	228 114	249 124	277 137	332 161
32										142 71	158 79	190 92	214 103	233 112	259 124	311 147

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STANDARD LOAD TABLE FOR OPEN WEB STEEL JOISTS, K-SERIES
Based on a 50 ksi Maximum Yield Strength - Loads Shown in Pounds per Linear Foot (plf)

Joist Designation	18K3	18K4	18K5	18K6	18K7	18K9	18K10	20K3	20K4	20K5	20K6	20K7	20K9	20K10	22K4	22K5	22K6	22K7	22K9	22K10	22K11
Depth (In.)	18	18	18	18	18	18	18	20	20	20	20	20	20	20	22	22	22	22	22	22	22
Approx. Wt. (lbs./ft.)	6.6	7.2	7.7	8.5	9	10.2	11.7	6.7	7.6	8.2	8.9	9.3	10.8	12.2	8	8.8	9.2	9.7	11.3	12.6	13.8
Span (ft.) ↓																					
18	550 550	550 550	550 550	550 550	550 550	550 550	550 550														
19	514 494	550 523	550 523	550 523	550 523	550 523	550 523														
20	463 423	550 490	550 490	550 490	550 490	550 490	550 490	517 517	550 550	550 550	550 550	550 550	550 550	550 550							
21	420 364	506 426	550 460	550 460	550 460	550 460	550 460	468 453	550 520	550 520	550 520	550 520	550 520	550 520							
22	382 316	460 370	518 414	550 438	550 438	550 438	550 438	426 393	514 461	550 490	550 490	550 490	550 490	550 490	550 548	550 548	550 548	550 548	550 548	550 548	550 548
23	349 276	420 323	473 362	516 393	550 418	550 418	550 418	389 344	469 402	529 451	550 468	550 468	550 468	550 468	518 491	550 518	550 518	550 518	550 518	550 518	550 518
24	320 242	385 284	434 318	473 345	526 382	550 396	550 396	357 302	430 353	485 396	528 430	550 448	550 448	550 448	475 431	536 483	550 495	550 495	550 495	550 495	550 495
25	294 214	355 250	400 281	435 305	485 337	550 377	550 377	329 266	396 312	446 350	486 380	541 421	550 426	550 426	438 381	493 427	537 464	550 474	550 474	550 474	550 474
26	272 190	328 222	369 249	402 271	448 299	538 354	550 361	304 236	366 277	412 310	449 337	500 373	550 405	550 405	404 338	455 379	496 411	550 454	550 454	550 454	550 454
27	252 169	303 198	342 222	372 241	415 267	498 315	550 347	281 211	339 247	382 277	416 301	463 333	550 389	550 389	374 301	422 337	459 367	512 406	550 432	550 432	550 432
28	234 151	282 177	318 199	346 216	385 239	463 282	548 331	261 189	315 221	355 248	386 269	430 298	517 353	550 375	348 270	392 302	427 328	475 364	550 413	550 413	550 413
29	218 136	263 159	296 179	322 194	359 215	431 254	511 298	243 170	293 199	330 223	360 242	401 268	482 317	550 359	324 242	365 272	398 295	443 327	532 387	550 399	550 399
30	203 123	245 144	276 161	301 175	335 194	402 229	477 269	227 153	274 179	308 201	336 218	374 242	450 286	533 336	302 219	341 245	371 266	413 295	497 349	550 385	550 385
31	190 111	229 130	258 146	281 158	313 175	376 207	446 243	212 138	256 162	289 182	314 198	350 219	421 259	499 304	283 198	319 222	347 241	387 267	465 316	550 369	550 369
32	178 101	215 118	242 132	264 144	294 159	353 188	418 221	199 126	240 147	271 165	295 179	328 199	395 235	468 276	265 180	299 201	326 219	363 242	436 287	517 337	549 355
33	168 92	202 108	228 121	248 131	276 145	332 171	393 201	187 114	226 134	254 150	277 163	309 181	371 214	440 251	249 164	281 183	306 199	341 221	410 261	486 307	532 334
34	158 84	190 98	214 110	233 120	260 132	312 156	370 184	176 105	212 122	239 137	261 149	290 165	349 195	414 229	235 149	265 167	288 182	321 202	386 239	458 280	516 314
35	149 77	179 90	202 101	220 110	245 121	294 143	349 168	166 96	200 112	226 126	246 137	274 151	329 179	390 210	221 137	249 153	272 167	303 185	364 219	432 257	494 292
36	141 70	169 82	191 92	208 101	232 111	278 132	330 154	157 88	189 103	213 115	232 125	259 139	311 164	369 193	209 126	236 141	257 153	286 169	344 201	408 236	467 269
37								148 81	179 95	202 106	220 115	245 128	294 151	349 178	198 116	223 130	243 141	271 156	325 185	386 217	442 247
38								141 74	170 87	191 98	208 106	232 118	279 139	331 164	187 107	211 119	230 130	256 144	308 170	366 200	419 228
39								133 69	161 81	181 90	198 98	220 109	265 129	314 151	178 98	200 110	218 120	243 133	292 157	347 185	397 211
40								127 64	153 75	172 84	188 91	209 101	251 119	298 140	169 91	190 102	207 111	231 123	278 146	330 171	377 195
41															161 85	181 95	197 103	220 114	264 135	314 159	359 181
42															153 79	173 88	188 96	209 106	252 126	299 148	342 168
43															146 73	165 82	179 89	200 99	240 117	285 138	326 157
44															139 68	157 76	171 83	191 92	229 109	272 128	311 146

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STANDARD LOAD TABLE FOR OPEN WEB STEEL JOISTS, K-SERIES
Based on a 50 ksi Maximum Yield Strength - Loads Shown in Pounds per Linear Foot (plf)

Joist Designation	24K4	24K5	24K6	24K7	24K8	24K9	24K10	24K12	26K5	26K6	26K7	26K8	26K9	26K10	26K12
Depth (In.)	24	24	24	24	24	24	24	24	26	26	26	26	26	26	26
Approx. Wt. (lbs./ft.)	8.4	9.3	9.7	10.1	11.5	12.0	13.1	16.0	9.8	10.6	10.9	12.1	12.2	13.8	16.6
Span (ft.) ↓															
24	520 516	550 544	550 544	550 544	550 544	550 544	550 544	550 544							
25	479 456	540 511	550 520	550 520	550 520	550 520	550 520	550 520							
26	442 405	499 453	543 493	550 499	550 499	550 499	550 499	550 499	542 535	550 541	550 541	550 541	550 541	550 541	550 541
27	410 361	462 404	503 439	550 479	550 479	550 479	550 479	550 479	502 477	547 519	550 522	550 522	550 522	550 522	550 522
28	381 323	429 362	467 393	521 436	550 456	550 456	550 456	550 456	466 427	508 464	550 501	550 501	550 501	550 501	550 501
29	354 290	400 325	435 354	485 392	536 429	550 436	550 436	550 436	434 384	473 417	527 463	550 479	550 479	550 479	550 479
30	331 262	373 293	406 319	453 353	500 387	544 419	550 422	550 422	405 346	441 377	492 417	544 457	550 459	550 459	550 459
31	310 237	349 266	380 289	424 320	468 350	510 379	550 410	550 410	379 314	413 341	460 378	509 413	550 444	550 444	550 444
32	290 215	327 241	357 262	397 290	439 318	478 344	549 393	549 393	356 285	387 309	432 343	477 375	519 407	549 431	549 431
33	273 196	308 220	335 239	373 265	413 289	449 313	532 368	532 368	334 259	364 282	406 312	448 342	488 370	532 404	532 404
34	257 179	290 201	315 218	351 242	388 264	423 286	502 337	516 344	315 237	343 257	382 285	422 312	459 338	516 378	516 378
35	242 164	273 184	297 200	331 221	366 242	399 262	473 308	501 324	297 217	323 236	360 261	398 286	433 310	501 356	501 356
36	229 150	258 169	281 183	313 203	346 222	377 241	447 283	487 306	280 199	305 216	340 240	376 263	409 284	486 334	487 334
37	216 138	244 155	266 169	296 187	327 205	356 222	423 260	474 290	265 183	289 199	322 221	356 242	387 262	460 308	474 315
38	205 128	231 143	252 156	281 172	310 189	338 204	401 240	461 275	251 169	274 184	305 204	337 223	367 241	436 284	461 299
39	195 118	219 132	239 144	266 159	294 174	320 189	380 222	449 261	238 156	260 170	289 188	320 206	348 223	413 262	449 283
40	185 109	208 122	227 133	253 148	280 161	304 175	361 206	438 247	227 145	247 157	275 174	304 191	331 207	393 243	438 269
41	176 101	198 114	216 124	241 137	266 150	290 162	344 191	427 235	215 134	235 146	262 162	289 177	315 192	374 225	427 256
42	168 94	189 106	206 115	229 127	253 139	276 151	327 177	417 224	205 125	224 136	249 150	275 164	300 178	356 210	417 244
43	160 88	180 98	196 107	219 118	242 130	263 140	312 165	406 213	196 116	213 126	238 140	263 153	286 166	339 195	407 232
44	153 82	172 92	187 100	209 110	231 121	251 131	298 154	387 199	187 108	204 118	227 131	251 143	273 155	324 182	398 222
45	146 76	164 86	179 93	199 103	220 113	240 122	285 144	370 185	179 101	194 110	217 122	240 133	261 145	310 170	389 212
46	139 71	157 80	171 87	191 97	211 106	230 114	272 135	354 174	171 95	186 103	207 114	229 125	250 135	296 159	380 203
47	133 67	150 75	164 82	183 90	202 99	220 107	261 126	339 163	164 89	178 96	199 107	219 117	239 127	284 149	369 192
48	128 63	144 70	157 77	175 85	194 93	211 101	250 118	325 153	157 83	171 90	190 100	210 110	229 119	272 140	353 180
49									150 78	164 85	183 94	202 103	220 112	261 131	339 169
50									144 73	157 80	175 89	194 97	211 105	250 124	325 159
51									139 69	151 75	168 83	186 91	203 99	241 116	313 150
52									133 65	145 71	162 79	179 86	195 93	231 110	301 142

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STANDARD LOAD TABLE FOR OPEN WEB STEEL JOISTS, K-SERIES
Based on a 50 ksi Maximum Yield Strength - Loads Shown in Pounds per Linear Foot (plf)

Joist Designation	28K6	28K7	28K8	28K9	28K10	28K12	30K7	30K8	30K9	30K10	30K11	30K12
Depth (In.)	28	28	28	28	28	28	30	30	30	30	30	30
Approx. Wt. (lbs./ft.)	11.4	11.8	12.7	13.0	14.3	17.1	12.3	13.2	13.4	15.0	16.4	17.6
Span (ft.) ↓												
28	548 541	550 543	550 543	550 543	550 543	550 543						
29	511 486	550 522	550 522	550 522	550 522	550 522						
30	477 439	531 486	550 500	550 500	550 500	550 500	550 543	550 543	550 543	550 543	550 543	550 543
31	446 397	497 440	550 480	550 480	550 480	550 480	534 508	550 520	550 520	550 520	550 520	550 520
32	418 361	466 400	515 438	549 463	549 463	549 463	501 461	549 500	549 500	549 500	549 500	549 500
33	393 329	438 364	484 399	527 432	532 435	532 435	471 420	520 460	532 468	532 468	532 468	532 468
34	370 300	412 333	456 364	496 395	516 410	516 410	443 384	490 420	516 441	516 441	516 441	516 441
35	349 275	389 305	430 333	468 361	501 389	501 389	418 351	462 384	501 415	501 415	501 415	501 415
36	330 252	367 280	406 306	442 332	487 366	487 366	395 323	436 353	475 383	487 392	487 392	487 392
37	312 232	348 257	384 282	418 305	474 344	474 344	373 297	413 325	449 352	474 374	474 374	474 374
38	296 214	329 237	364 260	396 282	461 325	461 325	354 274	391 300	426 325	461 353	461 353	461 353
39	280 198	313 219	346 240	376 260	447 306	449 308	336 253	371 277	404 300	449 333	449 333	449 333
40	266 183	297 203	328 222	357 241	424 284	438 291	319 234	353 256	384 278	438 315	438 315	438 315
41	253 170	283 189	312 206	340 224	404 263	427 277	303 217	335 238	365 258	427 300	427 300	427 300
42	241 158	269 175	297 192	324 208	384 245	417 264	289 202	320 221	348 240	413 282	417 284	417 284
43	230 147	257 163	284 179	309 194	367 228	407 252	276 188	305 206	332 223	394 263	407 270	407 270
44	220 137	245 152	271 167	295 181	350 212	398 240	263 176	291 192	317 208	376 245	398 258	398 258
45	210 128	234 142	259 156	282 169	334 198	389 229	251 164	278 179	303 195	359 229	389 246	389 246
46	201 120	224 133	248 146	270 158	320 186	380 219	241 153	266 168	290 182	344 214	380 236	380 236
47	192 112	214 125	237 136	258 148	306 174	372 210	230 144	255 157	277 171	329 201	372 226	372 226
48	184 105	206 117	227 128	247 139	294 163	365 201	221 135	244 148	266 160	315 188	362 215	365 216
49	177 99	197 110	218 120	237 130	282 153	357 193	212 127	234 139	255 150	303 177	347 202	357 207
50	170 93	189 103	209 113	228 123	270 144	350 185	203 119	225 130	245 141	291 166	333 190	350 199
51	163 88	182 97	201 106	219 115	260 136	338 175	195 112	216 123	235 133	279 157	320 179	343 192
52	157 83	175 92	193 100	210 109	250 128	325 165	188 106	208 116	226 126	268 148	308 169	336 184
53	151 78	168 87	186 95	203 103	240 121	313 156	181 100	200 109	218 119	258 140	296 159	330 177
54	145 74	162 82	179 89	195 97	232 114	301 147	174 94	192 103	209 112	249 132	285 150	324 170
55	140 70	156 77	173 85	188 92	223 108	290 139	168 89	185 98	202 106	240 125	275 142	312 161
56	135 66	151 73	166 80	181 87	215 102	280 132	162 84	179 92	195 100	231 118	265 135	301 153
57							156 80	173 88	188 95	223 112	256 128	290 145
58							151 76	167 83	181 90	215 106	247 121	280 137
59							146 72	161 79	175 86	208 101	239 115	271 130
60							141 69	156 75	169 81	201 96	231 109	262 124

STANDARD ASD LOAD TABLE
LONGSPAN STEEL JOISTS, LH-SERIES

Based on a 50 ksi Maximum Yield Strength
Adopted by the Steel Joist Institute May 25, 1983
Revised to November 10, 2003 - Effective March 01, 2005

The black figures in the following table give the TOTAL safe uniformly distributed load-carrying capacities, in pounds per linear foot, of **ASD LH-Series** Steel Joists. 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 approximate DEAD load of the joists may be determined from the weights per linear foot shown in the tables.

The **RED** figures in this load table are the nominal 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 **RED** figures by 1.5. In no case shall the TOTAL load capacity of the joists be exceeded.

This load table applies to joists with either parallel chords or standard pitched top chords. When top chords are pitched, the carrying capacities are determined by the nominal depth of the joists at the center of the span. Standard top chord pitch is 1/8 inch per foot. If pitch exceeds this standard, the load table does not apply. Sloped parallel-chord joists shall use span as defined by the length along the slope.

Where the joist span is in the **RED SHADED** area of the load table, the row of bridging nearest the midspan shall be diagonal bridging with bolted connections at chords and intersection. Hoisting cables shall not be released until this row of bolted diagonal bridging is completely installed.

Where the joist span is in the **BLUE SHADED** area of the load table, all rows of bridging shall be diagonal bridging with bolted connections at chords and intersection. Hoisting cables shall not be released until the two rows of bridging nearest the third points are completely installed.

The approximate moment of inertia of the joist, in inches^4 is; $I_j = 26.767(W_{LL})(L^3)(10^{-6})$, where W_{LL}= **RED** figure in the Load Table, and L = (clear span + 0.67) in feet.

When holes are required in top or bottom chords, the carrying capacities must be reduced in proportion to the reduction of chord areas.

The top chords are considered as being stayed laterally by floor slab or roof deck.

The approximate joist weights per linear foot shown in these tables do not include accessories.

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STANDARD LOAD TABLE FOR LONGSPAN STEEL JOISTS, LH-SERIES
Based on a 50 ksi Maximum Yield Strength - Loads Shown in Pounds per Linear 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	12000	468	442	418	391	367	345	324	306	289	273	259	245				
				313	284	259	234	212	193	175	160	147	135	124	114				
18LH03	11	18	13300	521	493	467	438	409	382	359	337	317	299	283	267				
				348	317	289	262	236	213	194	177	161	148	136	124				
18LH04	12	18	15500	604	571	535	500	469	440	413	388	365	344	325	308				
				403	367	329	296	266	242	219	200	182	167	153	141				
18LH05	15	18	17500	684	648	614	581	543	508	476	448	421	397	375	355				
				454	414	378	345	311	282	256	233	212	195	179	164				
18LH06	15	18	20700	809	749	696	648	605	566	531	499	470	443	418	396				
				526	469	419	377	340	307	280	254	232	212	195	180				
18LH07	17	18	21500	840	809	780	726	678	635	595	559	526	496	469	444				
				553	513	476	428	386	349	317	288	264	241	222	204				
18LH08	19	18	22400	876	843	812	784	758	717	680	641	604	571	540	512				
				577	534	496	462	427	387	351	320	292	267	246	226				
18LH09	21	18	24000	936	901	868	838	810	783	759	713	671	633	598	566				
				616	571	527	491	458	418	380	346	316	289	266	245				
			22-24	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
20LH02	10	20	11300	442	437	431	410	388	365	344	325	307	291	275	262	249	237	225	215
				306	303	298	274	250	228	208	190	174	160	147	136	126	117	108	101
20LH03	11	20	12000	469	463	458	452	434	414	395	372	352	333	316	299	283	269	255	243
				337	333	317	302	280	258	238	218	200	184	169	156	143	133	123	114
20LH04	12	20	14700	574	566	558	528	496	467	440	416	393	372	353	335	318	303	289	275
				428	406	386	352	320	291	265	243	223	205	189	174	161	149	139	129
20LH05	14	20	15800	616	609	602	595	571	544	513	484	458	434	411	390	371	353	336	321
				459	437	416	395	366	337	308	281	258	238	219	202	187	173	161	150
20LH06	15	20	21100	822	791	763	723	679	635	596	560	527	497	469	444	421	399	379	361
				606	561	521	477	427	386	351	320	292	267	246	226	209	192	178	165
20LH07	17	20	22500	878	845	814	786	760	711	667	627	590	556	526	497	471	447	425	404
				647	599	556	518	484	438	398	362	331	303	278	256	236	218	202	187
20LH08	19	20	23200	908	873	842	813	785	760	722	687	654	621	588	558	530	503	479	457
				669	619	575	536	500	468	428	395	365	336	309	285	262	242	225	209
20LH09	21	20	25400	990	953	918	886	856	828	802	778	755	712	673	636	603	572	544	517
				729	675	626	581	542	507	475	437	399	366	336	309	285	264	244	227
20LH10	23	20	27400	1068	1028	991	956	924	894	865	839	814	791	748	707	670	636	604	575
				786	724	673	626	585	545	510	479	448	411	377	346	320	296	274	254

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STANDARD LOAD TABLE FOR LONGSPAN STEEL JOISTS, LH-SERIES
Based on a 50 ksi Maximum Yield Strength - Loads Shown in Pounds per Linear Foot (plf)

Joist Designation	Approx. Wt in Lbs. Per Linear Ft. (Joists only)	Depth in inches	SAFELOAD* in Lbs. Between		CLEAR SPAN IN FEET															
			28-32		**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**
24LH03	11	24	11500		342	339	336	323	307	293	279	267	255	244	234	224	215	207	199	191
					235	226	218	204	188	175	162	152	141	132	124	116	109	102	96	90
24LH04	12	24	14100		419	398	379	360	343	327	312	298	285	273	262	251	241	231	222	214
					288	265	246	227	210	195	182	169	158	148	138	130	122	114	107	101
24LH05	13	24	15100		449	446	440	419	399	380	363	347	331	317	304	291	280	269	258	248
					308	297	285	264	244	226	210	196	182	171	160	150	141	132	124	117
24LH06	16	24	20300		604	579	555	530	504	480	457	437	417	399	381	364	348	334	320	307
					411	382	356	331	306	284	263	245	228	211	197	184	172	161	152	142
24LH07	17	24	22300		665	638	613	588	565	541	516	491	468	446	426	407	389	373	357	343
					452	421	393	367	343	320	297	276	257	239	223	208	195	182	171	161
24LH08	18	24	23800		707	677	649	622	597	572	545	520	497	475	455	435	417	400	384	369
					480	447	416	388	362	338	314	292	272	254	238	222	208	196	184	173
24LH09	21	24	28000		832	808	785	764	731	696	663	632	602	574	548	524	501	480	460	441
					562	530	501	460	424	393	363	337	313	292	272	254	238	223	209	196
24LH10	23	24	29600		882	856	832	809	788	768	737	702	668	637	608	582	556	533	511	490
					596	559	528	500	474	439	406	378	351	326	304	285	266	249	234	220
24LH11	25	24	31200		927	900	875	851	829	807	787	768	734	701	671	642	616	590	567	544
					624	588	555	525	498	472	449	418	388	361	337	315	294	276	259	243
			33-40		**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**
28LH05	13	28	14000		337	323	310	297	286	275	265	255	245	237	228	220	213	206	199	193
					219	205	192	180	169	159	150	142	133	126	119	113	107	102	97	92
28LH06	16	28	18600		448	429	412	395	379	364	350	337	324	313	301	291	281	271	262	253
					289	270	253	238	223	209	197	186	175	166	156	148	140	133	126	120
28LH07	17	28	21000		505	484	464	445	427	410	394	379	365	352	339	327	316	305	295	285
					326	305	285	267	251	236	222	209	197	186	176	166	158	150	142	135
28LH08	18	28	22500		540	517	496	475	456	438	420	403	387	371	357	344	331	319	308	297
					348	325	305	285	268	252	236	222	209	196	185	175	165	156	148	140
28LH09	21	28	27700		667	639	612	586	563	540	519	499	481	463	446	430	415	401	387	374
					428	400	375	351	329	309	291	274	258	243	228	216	204	193	183	173
28LH10	23	28	30300		729	704	679	651	625	600	576	554	533	513	495	477	460	444	429	415
					466	439	414	388	364	342	322	303	285	269	255	241	228	215	204	193
28LH11	25	28	32500		780	762	736	711	682	655	629	605	582	561	540	521	502	485	468	453
					498	475	448	423	397	373	351	331	312	294	278	263	249	236	223	212
28LH12	27	28	35700		857	837	818	800	782	766	737	709	682	656	632	609	587	566	546	527
					545	520	496	476	454	435	408	383	361	340	321	303	285	270	256	243
28LH13	30	28	37200		895	874	854	835	816	799	782	766	751	722	694	668	643	620	598	577
					569	543	518	495	472	452	433	415	396	373	352	332	314	297	281	266
			38-46	**47-48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**
32LH06	14	32	16700	16700	338	326	315	304	294	284	275	266	257	249	242	234	227	220	214	208
					211	199	189	179	169	161	153	145	138	131	125	119	114	108	104	99
32LH07	16	32	18800	18800	379	366	353	341	329	318	308	298	288	279	271	262	254	247	240	233
					235	223	211	200	189	179	170	162	154	146	140	133	127	121	116	111
32LH08	17	32	20400	20400	411	397	383	369	357	345	333	322	312	302	293	284	275	267	259	252
					255	242	229	216	205	194	184	175	167	159	151	144	137	131	125	120
32LH09	21	32	25600	25600	516	498	480	463	447	432	418	404	391	379	367	356	345	335	325	315
					319	302	285	270	256	243	230	219	208	198	189	180	172	164	157	149
32LH10	21	32	28300	28300	571	550	531	512	495	478	462	445	430	416	402	389	376	364	353	342
					352	332	315	297	282	267	254	240	228	217	206	196	186	178	169	162
32LH11	24	32	31000	31000	625	602	580	560	541	522	505	488	473	458	443	429	416	403	390	378
					385	363	343	325	308	292	277	263	251	239	227	216	206	196	187	179
32LH12	27	32	36400	36400	734	712	688	664	641	619	598	578	559	541	524	508	492	477	463	449
					450	428	406	384	364	345	327	311	295	281	267	255	243	232	221	211
32LH13	30	32	40600	40600	817	801	785	771	742	715	690	666	643	621	600	581	562	544	527	511
					500	480	461	444	420	397	376	354	336	319	304	288	275	262	249	238
32LH14	33	32	41800	41800	843	826	810	795	780	766	738	713	688	665	643	622	602	583	564	547
					515	495	476	458	440	417	395	374	355	337	321	304	290	276	264	251
32LH15	35	32	43200	43200	870	853	837	821	805	791	776	763	750	725	701	678	656	635	616	597
					532	511	492	473	454	438	422	407	393	374	355	338	322	306	292	279
			42-46	**47-56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**
36LH07	16	36	16800	16800	292	283	274	266	258	251	244	237	230	224	218	212	207	201	196	191
					177	168	160	153	146	140	134	128	122	117	112	107	103	99	95	91
36LH08	18	36	18500	18500	321	311	302	293	284	276	268	260	253	246	239	233	227	221	215	209
					194	185	176	168	160	153	146	140	134	128	123	118	113	109	104	100
36LH09	21	36	23700	23700	411	398	386	374	363	352	342	333	323	314	306	297	289	282	275	267
					247	235	224	214	204	195	186	179	171	163	157	150	144	138	133	127
36LH10	21	36	26100	26100	454	440	426	413	401	389	378	367	357	347	338	328	320	311	303	295
					273	260	248	236	225	215	206	197	188	180	173	165	159	152	146	140
36LH11	23	36	28500	28500	495	480	465	451	438	425	412	401	389	378	368	358	348	339	330	322
					297	283	269	257	246	234	224	214	205	196	188	180	173	166	159	153
36LH12	25	36	34100	34100	593	575	557	540	523	508	493	478	464	450	437	424	412	400	389	378
					354	338	322	307	292	279	267	255	243	232	222	213	204	195	187	179
36LH13	30	36	40100	40100	697	675	654	634	615	596	579	562	546	531	516	502	488	475	463	451
					415	395	376	359	342	327	312	298	285	273	262	251	240	231	222	213
36LH14	36	36	44200	44200	768	755	729	706	683	661	641	621	602	584	567	551	535	520	505	492
					456	434	412	392	373	356	339	323	309	295	283	270	259	247	237	228
36LH15	36	36	46600	46600	809	795	781	769	744	721	698	677	656	637	618	600	583	567	551	536
					480	464	448	434	413	394	375	358	342	327	312	299	286	274	263	252

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STANDARD LOAD TABLE FOR LONGSPAN STEEL JOISTS, LH-SERIES
Based on a 50 ksi Maximum Yield Strength - Loads Shown in Pounds per Linear Foot (plf)

Joist Designation	Approx. Wt in Lbs. Per Linear Ft. (Joists Only)	Depth in inches	SAFELOAD* in Lbs. Between		CLEAR SPAN IN FEET															
			47-59	60-64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
40LH08	16	40	16600	16600	254 150	247 144	241 138	234 132	228 127	222 122	217 117	211 112	206 108	201 104	196 100	192 97	187 93	183 90	178 86	174 83
40LH09	21	40	21800	21800	332 196	323 188	315 180	306 173	298 166	291 160	283 153	276 147	269 141	263 136	256 131	250 126	244 122	239 118	233 113	228 109
40LH10	21	40	24000	24000	367 216	357 207	347 198	338 190	329 183	321 176	313 169	305 162	297 156	290 150	283 144	276 139	269 134	262 129	255 124	249 119
40LH11	22	40	26200	26200	399 234	388 224	378 215	368 207	358 198	349 190	340 183	332 176	323 169	315 163	308 157	300 151	293 145	286 140	279 135	273 130
40LH12	25	40	31900	31900	486 285	472 273	459 261	447 251	435 241	424 231	413 222	402 213	392 205	382 197	373 189	364 182	355 176	346 169	338 163	330 157
40LH13	30	40	37600	37600	573 334	557 320	542 307	528 295	514 283	500 271	487 260	475 250	463 241	451 231	440 223	429 214	419 207	409 199	399 192	390 185
40LH14	35	40	43000	43000	656 383	638 367	620 351	603 336	587 323	571 309	556 297	542 285	528 273	515 263	502 252	490 243	478 233	466 225	455 216	444 209
40LH15	36	40	48100	48100	734 427	712 408	691 390	671 373	652 357	633 342	616 328	599 315	583 302	567 290	552 279	538 268	524 258	511 248	498 239	486 230
40LH16	42	40	53000	53000	808 469	796 455	784 441	772 428	761 416	751 404	730 387	710 371	691 356	673 342	655 329	638 316	622 304	606 292	591 282	576 271
			52-59	**60-72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**
44LH09	19	44	20000	20000	272 158	265 152	259 146	253 141	247 136	242 131	236 127	231 122	226 118	221 114	216 110	211 106	207 103	202 99	198 96	194 93
44LH10	21	44	22100	22100	300 174	293 168	286 162	279 155	272 150	266 144	260 139	254 134	249 130	243 125	238 121	233 117	228 113	223 110	218 106	214 103
44LH11	22	44	23900	23900	325 188	317 181	310 175	302 168	295 162	289 157	282 151	276 146	269 140	264 136	258 131	252 127	247 123	242 119	236 115	232 111
44LH12	25	44	29600	29600	402 232	393 224	383 215	374 207	365 200	356 192	347 185	339 179	331 172	323 166	315 160	308 155	300 149	293 144	287 139	280 134
44LH13	30	44	35100	35100	477 275	466 265	454 254	444 246	433 236	423 228	413 220	404 212	395 205	386 198	377 191	369 185	361 179	353 173	346 167	338 161
44LH14	31	44	40400	40400	549 315	534 302	520 291	506 279	493 268	481 259	469 249	457 240	446 231	436 223	425 215	415 207	406 200	396 193	387 187	379 181
44LH15	36	44	47000	47000	639 366	623 352	608 339	593 326	579 314	565 303	551 292	537 281	524 271	512 261	500 252	488 243	476 234	466 227	455 219	445 211
44LH16	42	44	54200	54200	737 421	719 405	701 390	684 375	668 362	652 348	637 336	622 324	608 313	594 302	580 291	568 282	555 272	543 263	531 255	520 246
44LH17	47	44	58200	58200	790 450	780 438	769 426	759 415	750 405	732 390	715 376	699 363	683 351	667 338	652 327	638 316	624 305	610 295	597 285	584 276
			56-59	**60-80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**	**91**	**92**	**93**	**94**	**95**	**96**
48LH10	21	48	20000	20000	246 141	241 136	236 132	231 127	226 123	221 119	217 116	212 112	208 108	204 105	200 102	196 99	192 96	188 93	185 90	181 87
48LH11	22	48	21700	21700	266 152	260 147	255 142	249 137	244 133	239 129	234 125	229 120	225 117	220 113	216 110	212 106	208 103	204 100	200 97	196 94
48LH12	25	48	27400	27400	336 191	329 185	322 179	315 173	308 167	301 161	295 156	289 151	283 147	277 142	272 138	266 133	261 129	256 126	251 122	246 118
48LH13	29	48	32800	32800	402 228	393 221	384 213	376 206	368 199	360 193	353 187	345 180	338 175	332 170	325 164	318 159	312 154	306 150	300 145	294 141
48LH14	32	48	38700	38700	475 269	464 260	454 251	444 243	434 234	425 227	416 220	407 212	399 206	390 199	383 193	375 187	367 181	360 176	353 171	346 165
48LH15	36	48	44500	44500	545 308	533 298	521 287	510 278	499 269	488 260	478 252	468 244	458 236	448 228	439 221	430 214	422 208	413 201	405 195	397 189
48LH16	42	48	51300	51300	629 355	615 343	601 331	588 320	576 310	563 299	551 289	540 280	528 271	518 263	507 255	497 247	487 239	477 232	468 225	459 218
48LH17	47	48	57600	57600	706 397	690 383	675 371	660 358	646 346	632 335	619 324	606 314	593 304	581 294	569 285	558 276	547 268	536 260	525 252	515 245

* The safe uniform load for the clear spans shown in the Safe Load Column is equal to (Safe Load) / (Clear span + 0.67). (The added 0.67 feet (8 inches) is required to obtain the proper length on which the Load Tables were developed).

In no case shall the safe uniform load, for clear spans less than the minimum clear span shown in the Safe Load Column, exceed the uniform load calculated for the minimum clear span listed in the Safe Load Column.

To solve for *live* loads for clear spans shown in the Safe Load Column (or lesser clear spans), multiply the live load of the shortest clear span shown in the Load Table by the (the shortest clear span shown in the Load Table + 0.67 feet)^2 and divide by (the actual clear span + 0.67 feet)^2. The live load shall *not* exceed the safe uniform load.

STANDARD ASD LOAD TABLE
DEEP LONGSPAN STEEL JOISTS, DLH-SERIES

Based on a 50 ksi Maximum Yield Strength
Adopted by the Steel Joist Institute May 25, 1983
Revised to November 10, 2003 - Effective March 01, 2005

The black figures in the following table give the TOTAL safe uniformly distributed load-carrying capacities, in pounds per linear foot, of an **ASD DLH-Series** Steel Joists. 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 approximate DEAD load of the joists may be determined from the weights per linear foot shown in the tables. All loads shown are for roof construction only.

The **RED** figures in this load table are the nominal 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 **RED** figures by 1.5. In no case shall the TOTAL load capacity of the joists be exceeded.

This load table applies to joists with either parallel chords or standard pitched top chords. When top chords are pitched, the carrying capacities are determined by the nominal depth of the joists at the center of the span. Standard top chord pitch is 1/8 inch per foot. If pitch exceeds this standard, the load table does not apply. Sloped parallel-chord joists shall use span as defined by the length along the slope.

All rows of bridging shall be diagonal bridging with bolted connections at the chords and intersections.

Where the joist span is in the **BLUE SHADED** area of the load table hoisting cables shall not be released until the two rows of bridging nearest the third points are completely installed.

Where the joist span is in the **GRAY SHADED** area of the load table hoisting cables shall not be released until all rows of bridging are completely installed.

The approximate moment of inertia of the joist, in inches^4 is; $I_j = 26.767(W_{LL})(L^3)(10^{-6})$, where W_{LL}= **RED** figure in the Load Table, and L = (clear span + 0.67) in feet.

When holes are required in top or bottom chords, the carrying capacities must be reduced in proportion to the reduction of chord areas.

The top chords are considered as being stayed laterally by floor slab or roof deck.

The approximate joist weights per linear foot shown in these tables do not include accessories.

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STANDARD LOAD TABLE LONGSPAN STEEL JOISTS, DLH-SERIES
Based on a 50 ksi Maximum Yield Strength - Loads Shown in Pounds per Linear Foot (plf)

Joist Designation	Approx. Wt in Lbs. Per Linear Ft (Joists only)	Depth in inches	SAFELOAD* in Lbs. Between	CLEAR SPAN IN FEET															
			61-88	**89**	**90**	**91**	**92**	**93**	**94**	**95**	**96**	**97**	**98**	**99**	**100**	**101**	**102**	**103**	**104**
52DLH10	25	52	26700	298 171	291 165	285 159	279 154	273 150	267 145	261 140	256 136	251 132	246 128	241 124	236 120	231 116	227 114	223 110	218 107
52DLH11	26	52	29300	327 187	320 181	313 174	306 169	299 164	293 158	287 153	281 149	275 144	270 140	264 135	259 132	254 128	249 124	244 120	240 117
52DLH12	29	52	32700	365 204	357 197	349 191	342 185	334 179	327 173	320 168	314 163	307 158	301 153	295 149	289 144	284 140	278 135	273 132	268 128
52DLH13	34	52	39700	443 247	433 239	424 231	414 224	406 216	397 209	389 203	381 197	373 191	366 185	358 180	351 174	344 170	338 164	331 159	325 155
52DLH14	39	52	45400	507 276	497 266	486 258	476 249	466 242	457 234	447 227	438 220	430 213	421 207	413 201	405 194	397 189	390 184	382 178	375 173
52DLH15	42	52	51000	569 311	557 301	545 291	533 282	522 272	511 264	500 256	490 247	480 240	470 233	461 226	451 219	443 213	434 207	426 201	418 195
52DLH16	45	52	55000	614 346	601 335	588 324	575 314	563 304	551 294	540 285	528 276	518 267	507 260	497 252	487 245	478 237	468 230	459 224	451 217
52DLH17	52	52	63300	706 395	691 381	676 369	661 357	647 346	634 335	620 324	608 315	595 304	583 296	572 286	560 279	549 270	539 263	528 255	518 247
			66-96	**97**	**98**	**99**	**100**	**101**	**102**	**103**	**104**	**105**	**106**	**107**	**108**	**109**	**110**	**111**	**112**
56DLH11	26	56	28100	288 169	283 163	277 158	272 153	267 149	262 145	257 140	253 136	248 133	244 129	239 125	235 122	231 118	227 115	223 113	219 110
56DLH12	30	56	32300	331 184	324 178	318 173	312 168	306 163	300 158	295 153	289 150	284 145	278 141	273 137	268 133	263 130	259 126	254 123	249 119
56DLH13	34	56	39100	401 223	394 216	386 209	379 204	372 197	365 191	358 186	351 181	344 175	338 171	331 166	325 161	319 157	314 152	308 149	303 145
56DLH14	39	56	44200	453 249	444 242	435 234	427 228	419 221	411 214	403 209	396 202	388 196	381 190	375 186	368 181	361 175	355 171	349 167	343 162
56DLH15	42	56	50500	518 281	508 272	498 264	488 256	478 248	469 242	460 234	451 228	443 221	434 215	426 209	419 204	411 198	403 192	396 188	389 182
56DLH16	46	56	54500	559 313	548 304	537 294	526 285	516 277	506 269	496 262	487 254	478 247	469 240	460 233	452 227	444 221	436 214	428 209	420 204
56DLH17	51	56	62800	643 356	630 345	618 335	605 325	594 316	582 306	571 298	560 289	549 281	539 273	529 266	520 258	510 251	501 245	492 238	483 231

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STANDARD LOAD TABLE LONGSPAN STEEL JOISTS, DLH-SERIES
Based on a 50 ksi Maximum Yield Strength - Loads Shown in Pounds per Linear 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															
			70-99	100-104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
60DLH12	29	60	31100	31100	295 168	289 163	284 158	279 154	274 150	270 146	265 142	261 138	256 134	252 131	248 128	244 124	240 121	236 118	232 115	228 113
60DLH13	35	60	37800	37800	358 203	351 197	345 191	339 187	333 181	327 176	322 171	316 167	311 163	306 158	301 154	296 151	291 147	286 143	282 139	277 135
60DLH14	40	60	42000	42000	398 216	391 210	383 205	376 199	370 193	363 189	356 183	350 178	344 173	338 170	332 165	327 161	321 156	316 152	310 149	305 145
60DLH15	43	60	49300	49300	467 255	458 248	450 242	442 235	434 228	427 223	419 216	412 210	405 205	398 200	392 194	385 190	379 185	373 180	367 175	361 171
60DLH16	46	60	54200	54200	513 285	504 277	494 269	485 262	476 255	468 247	460 241	451 235	444 228	436 223	428 217	421 211	414 206	407 201	400 196	393 190
60DLH17	52	60	62300	62300	590 324	579 315	569 306	558 298	548 290	538 283	529 275	519 267	510 261	501 254	493 247	484 241	476 235	468 228	460 223	453 217
60DLH18	59	60	71900	71900	681 366	668 357	656 346	644 337	632 327	621 319	610 310	599 303	589 294	578 286	568 279	559 272	549 266	540 259	531 252	522 246
			75-99	**100-112**	**113**	**114**	**115**	**116**	**117**	**118**	**119**	**120**	**121**	**122**	**123**	**124**	**125**	**126**	**127**	**128**
64DLH12	31	64	30000	30000	264 153	259 150	255 146	251 142	247 138	243 135	239 132	235 129	231 125	228 122	224 119	221 116	218 114	214 111	211 109	208 106
64DLH13	34	64	36400	36400	321 186	315 181	310 176	305 171	300 168	295 163	291 159	286 155	281 152	277 148	273 144	269 141	264 137	260 134	257 131	253 128
64DLH14	40	64	41700	41700	367 199	360 193	354 189	349 184	343 179	337 174	332 171	326 166	321 162	316 158	311 154	306 151	301 147	296 143	292 140	287 136
64DLH15	43	64	47800	47800	421 234	414 228	407 223	400 217	394 211	387 206	381 201	375 196	369 191	363 187	358 182	352 177	347 173	341 170	336 165	331 161
64DLH16	46	64	53800	53800	474 262	466 254	458 248	450 242	443 235	435 229	428 224	421 218	414 213	407 208	401 203	394 198	388 193	382 189	376 184	370 180
64DLH17	52	64	62000	62000	546 298	536 290	527 283	518 275	509 268	501 262	492 255	484 248	476 243	468 237	461 231	454 226	446 220	439 215	432 210	426 205
64DLH18	59	64	71600	71600	630 337	619 328	608 320	598 311	587 304	578 296	568 288	559 282	549 274	540 267	532 261	523 255	515 249	507 243	499 237	491 232
			80-99	**100-120**	**121**	**122**	**123**	**124**	**125**	**126**	**127**	**128**	**129**	**130**	**131**	**132**	**133**	**134**	**135**	**136**
68DLH13	37	68	35000	35000	288 171	284 168	279 164	275 159	271 155	267 152	263 149	259 145	255 142	252 138	248 135	244 133	241 130	237 127	234 124	231 121
68DLH14	40	68	40300	40300	332 184	327 179	322 175	317 171	312 167	308 163	303 159	299 155	294 152	290 148	286 145	281 141	277 138	273 135	269 133	266 130
68DLH15	44	68	45200	45200	372 206	365 201	360 196	354 191	348 187	343 182	337 178	332 174	327 170	322 166	317 162	312 158	308 155	303 152	299 148	294 145
68DLH16	49	68	53600	53600	441 242	433 236	427 230	420 225	413 219	407 214	400 209	394 204	388 199	382 195	376 190	371 186	365 182	360 178	354 174	349 171
68DLH17	55	68	60400	60400	497 275	489 268	481 262	474 256	467 249	460 244	453 238	446 232	439 228	433 222	427 217	420 212	414 208	408 203	403 198	397 194
68DLH18	61	68	69900	69900	575 311	566 304	557 297	549 289	540 283	532 276	524 269	516 263	508 257	501 251	493 246	486 240	479 234	472 230	465 225	459 219
68DLH19	67	68	80500	80500	662 353	651 344	641 336	631 328	621 320	611 313	601 305	592 298	583 291	574 285	565 278	557 272	548 266	540 260	532 254	525 248
			84-99	**100-128**	**129**	**130**	**131**	**132**	**133**	**134**	**135**	**136**	**137**	**138**	**139**	**140**	**141**	**142**	**143**	**144**
72DLH14	41	72	39200	39200	303 171	298 167	294 163	290 159	285 155	281 152	277 149	274 146	270 143	266 139	262 136	259 133	255 131	252 128	248 125	245 123
72DLH15	44	72	44900	44900	347 191	342 187	336 183	331 178	326 174	322 171	317 167	312 163	308 160	303 156	299 152	295 150	291 147	286 143	282 140	279 137
72DLH16	50	72	51900	51900	401 225	395 219	390 214	384 209	378 205	373 200	368 196	363 191	358 188	353 183	348 179	343 175	338 171	334 169	329 165	325 161
72DLH17	56	72	58400	58400	451 256	445 250	438 245	432 239	426 233	420 228	414 224	408 218	402 213	397 209	391 205	386 200	381 196	376 191	371 188	366 184
72DLH18	59	72	68400	68400	528 289	520 283	512 276	505 270	497 265	490 258	483 252	479 247	470 242	463 236	457 231	450 227	444 222	438 217	432 212	426 209
72DLH19	70	72	80200	80200	619 328	609 321	600 313	591 306	582 300	573 293	565 286	557 280	549 274	541 268	533 263	526 257	518 251	511 247	504 241	497 236

* The safe uniform load for the clear spans shown in the Safe Load Column is equal to (Safe Load) / (Clear Span + 0.67). (The added 0.67 feet (8 inches) is required to obtain the proper length on which the Load Tables were developed).

In no case shall the safe uniform load, for clear spans less than the minimum clear span shown in the Safe Load Column, exceed the uniform load calculated for the minimum clear span listed in the Safe Load Column.

To solve for *live* loads for clear spans shown in the Safe Load Column (or lesser clear spans), multiply the live load of the shortest clear span shown in the Load Table by (the shortest clear span shown in the Load Table + 0.67 feet)^2 and divide by (the actual clear span + 0.67 feet)^2. The live load shall *not* exceed the safe uniform load.

DESIGN GUIDE ASD WEIGHT TABLE
FOR JOIST GIRDERS

Based on a 50 ksi Maximum Yield Strength

GIRDER SPAN (ft.)	JOIST SPACES (ft.)	GIRDER DEPTH (in.)	JOIST GIRDER WEIGHT -- POUNDS PER LINEAR FOOT LOAD ON EACH PANEL POINT – KIPS																	
			4	6	8	10	12	14	16	18	20	24	28	32	36	40	44	48	52	56
20	2N@ 10.00	20	16	19	19	19	19	20	24	24	25	30	37	41	46	50	56	62	70	75
		24	16	19	19	19	19	20	21	21	25	28	32	36	41	42	49	52	53	66
		28	16	19	19	19	19	20	20	21	23	26	28	32	39	40	42	46	48	49
	3N@ 6.67	20	15	15	19	19	20	23	24	27	31	36	44	48	54	74	75	81	84	89
		24	15	16	16	16	19	20	23	26	27	33	36	45	47	53	56	68	79	82
		28	15	16	16	16	17	20	24	24	26	31	36	44	46	49	53	57	68	80
	4N@ 5.00	20	15	15	19	21	25	29	33	38	41	50	57	65	71	88	97	100	107	120
		24	15	16	17	20	23	26	29	32	35	44	50	55	62	71	85	90	100	102
		28	16	16	17	19	22	25	28	30	34	39	49	50	59	63	72	86	91	91
	5N@ 4.00	20	15	17	21	26	31	36	39	48	51	62	71	82	99	99	109	120	141	142
		24	16	16	20	23	26	30	35	39	43	53	60	68	80	91	101	103	110	120
		28	16	16	18	22	27	28	33	37	39	48	55	64	68	77	93	95	107	111
	6N@ 3.33	20	16	19	25	29	36	41	50	57	58	72	82	99	107	118	138	141		
		24	16	18	22	28	31	37	43	46	53	61	70	85	102	102	111	123	144	147
		28	17	18	22	26	30	33	40	42	47	58	68	76	83	96	109	112	119	130
	8N@ 2.50	20	19	25	32	41	51	58	65	72	82	99	118	139	142					
		24	17	22	29	36	42	50	54	61	69	86	103	107	128	149	153			
		28	18	22	29	34	40	47	54	61	67	76	88	107	112	124	135	155	166	
22	2N@ 11.00	20	21	21	21	22	22	23	24	24	25	34	39	43	49	55	62	69	76	78
		24	18	21	21	22	22	22	23	24	24	30	33	41	41	45	51	55	61	73
		28	18	21	21	21	22	22	22	23	24	37	30	33	41	42	46	48	51	58
	3N@ 7.33	20	15	18	18	19	22	24	26	29	33	42	45	53	68	70	76	84	88	94
		24	15	15	19	19	20	23	24	26	30	35	40	45	48	55	61	74	81	84
		28	15	16	16	16	19	20	23	24	27	32	36	45	47	52	54	59	74	82
	4N@ 5.50	20	15	16	19	23	26	30	36	39	44	55	62	71	82	95	96	106	119	134
		24	15	15	17	20	25	27	29	34	38	48	52	58	71	79	89	98	101	107
		28	16	16	16	19	22	25	28	32	35	40	49	54	60	72	79	87	90	97
	5N@ 4.40	20	15	17	24	27	34	38	42	49	55	65	75	96	98	111	126	137		
		24	16	16	20	24	28	33	38	40	48	56	62	73	85	100	101	110	116	133
		28	16	16	18	22	26	30	32	38	41	51	57	65	73	86	92	102	105	111
	6N@ 3.67	20	16	21	27	33	39	49	56	57	65	79	97	106	118	137				
		24	16	19	23	28	32	39	45	51	58	66	82	98	101	109	120	142	144	
		28	16	18	22	26	30	34	39	44	50	61	70	76	89	102	104	113	127	148
	8N@ 2.75	20	19	27	36	43	56	64	71	80	96	106	135	138						
		24	18	24	31	38	46	53	60	68	75	101	105	125	145	149				
		28	18	22	28	34	40	47	54	62	69	79	87	106	118	131	152	164		
25	3N@ 8.33	20	18	18	19	22	26	27	30	37	41	49	59	66	70	76	86	89	97	102
		24	15	18	19	20	22	25	26	28	32	39	43	51	59	67	71	81	84	89
		28	15	15	19	19	20	23	24	27	29	34	39	45	47	55	59	67	81	82
		32	15	16	16	16	20	21	23	24	27	32	36	44	46	52	54	58	74	81
		36	16	16	16	17	17	20	24	24	26	32	36	40	45	48	53	54	68	79
	4N@ 6.25	20	15	18	20	25	29	35	39	42	49	55	70	78	93	99	109	119	134	135
		24	15	16	19	21	26	29	33	37	40	50	57	64	72	88	97	100	106	120
		28	15	15	17	20	24	25	29	34	37	43	51	58	66	72	89	90	101	102
		32	16	16	17	19	21	25	28	32	35	40	49	54	60	69	79	86	91	96
		36	16	16	17	19	21	26	26	29	34	38	49	50	56	63	73	85	88	92
	5N@ 5.00	20	15	18	25	31	38	43	51	55	58	73	93	100	109	125	134			
		24	15	17	23	26	32	36	42	47	53	61	75	81	98	102	112	129	140	
		28	16	16	20	24	28	31	37	41	47	56	62	72	79	93	101	106	117	125
		32	16	16	19	23	26	30	33	38	41	51	57	65	73	83	93	102	105	111
		36	16	17	18	22	26	28	31	36	39	48	54	64	69	75	88	96	101	108
	6N@ 4.17	20	16	24	29	38	45	55	58	69	78	94	104	116	134					
		24	16	20	25	31	37	44	50	56	64	75	97	99	107	118	138			
		28	16	18	23	28	32	38	44	51	55	67	73	87	101	104	120	134	143	145
		32	16	18	22	26	30	34	39	44	50	61	69	77	89	102	105	113	127	148
		36	16	18	24	25	30	36	39	43	49	58	67	74	84	98	108	116	117	129
	8N@ 3.12	20	21	29	39	48	58	70	78	94	99	115	134							
		24	19	26	33	41	50	57	65	75	81	99	118	138						
		28	18	23	30	38	44	53	60	67	75	86	103	116	127	147				
		32	18	24	28	34	39	47	54	65	71	78	87	105	117	129	152	154		
		36	18	22	29	34	40	46	52	61	63	76	87	101	114	121	136	148	166	167
	10N@ 2.50	20	26	38	49	63	78	94	100	115	134									
		24	23	33	42	54	65	75	89	99	104	130								
		28	21	30	38	48	56	64	74	84	101	109	134	147						
		32	21	28	36	43	52	62	69	76	87	107	118	130	153					
		36	22	28	37	44	52	64	71	77	85	100	116	130	151	157				

ASD

GIRDER SPAN (ft.)	JOIST SPACES (ft.)	GIRDER DEPTH (in.)	JOIST GIRDER WEIGHT -- POUNDS PER LINEAR FOOT LOAD ON EACH PANEL POINT – KIPS																		
			4	6	8	10	12	14	16	18	20	24	28	32	36	40	44	48	52	56
28	3N@ 9.33	24	18	18	19	22	24	27	29	36	39	43	53	62	70	71	78	85	89	98
		28	18	18	19	20	22	25	26	28	31	39	43	46	55	61	66	76	83	86
		32	15	18	19	19	21	23	24	27	28	34	39	45	48	53	58	66	80	81
	4N@ 7.00	24	15	16	20	24	27	32	38	40	48	55	62	71	82	95	104	106	120	135
		28	15	15	18	21	25	28	32	36	39	49	56	64	71	79	96	97	106	107
		32	15	15	17	20	23	25	29	33	37	43	50	58	62	70	85	90	99	102
	5N@ 5.60	24	15	18	24	29	34	39	46	52	58	66	78	96	102	111	126	136		
		28	15	17	21	26	30	35	39	46	50	61	68	77	90	99	107	114	130	142
		32	16	17	20	24	27	32	37	41	44	56	62	70	80	93	102	107	112	119
	6N@ 4.67	24	16	21	28	35	41	49	55	63	70	79	96	106	134	137				
		28	15	20	24	30	36	42	50	54	58	71	82	99	107	118	138	142		
		32	16	19	23	28	32	37	43	49	53	64	74	84	101	102	111	123	144	146
	7N@ 4.00	24	18	24	32	41	49	56	64	74	79	96	110	135						
		28	17	22	27	35	43	51	57	62	69	82	99	108	129	140				
		32	16	21	27	31	38	44	52	55	63	74	85	102	108	123	143	146		
	8N@ 3.50	24	20	28	37	48	55	64	74	79	95	105	134							
		28	18	25	32	39	50	58	65	72	81	99	108	129	141					
		32	17	24	29	38	43	53	60	64	70	86	103	113	127	147	149			
	10N@ 2.80	24	24	36	46	57	70	79	96	102	117	137								
		28	23	30	41	50	60	69	82	99	100	120	141							
		32	21	30	38	46	55	66	71	80	93	109	126	147						
30	3N@ 10.00	24	18	18	21	24	27	31	35	38	40	48	58	66	71	80	92	98	117	119
		28	18	18	19	22	25	27	30	35	37	42	49	56	63	70	79	82	93	99
		32	18	18	19	20	22	26	28	31	32	39	46	51	57	64	71	73	83	84
		36	16	19	19	19	21	23	26	28	31	35	39	46	52	57	64	65	73	75
	4N@ 7.50	24	16	18	23	29	33	37	42	49	53	64	76	85	101	104	126	127	149	150
		28	15	16	21	25	30	33	37	42	45	53	61	73	81	86	103	104	126	128
		32	15	16	18	22	26	30	34	37	43	51	55	62	70	77	87	103	105	116
		36	16	16	17	22	24	27	31	34	36	46	52	59	64	74	78	88	91	105
	5N@ 6.00	24	15	19	25	30	37	43	51	55	58	73	86	96	109	125	134			
		28	15	17	23	27	32	37	44	47	53	61	75	88	97	102	112	128	138	
		32	16	17	21	24	29	35	39	43	48	56	63	77	90	100	101	107	117	133
		36	16	17	20	24	27	31	36	40	43	51	60	70	80	86	94	103	110	118
	6N@ 5.00	24	16	24	29	37	45	52	58	66	73	94	104	116	134					
		28	16	20	27	32	38	44	50	57	65	75	97	99	107	137	140			
		32	16	19	24	29	34	40	45	51	58	65	82	98	100	109	121	142	144	
		36	16	18	23	26	31	37	41	46	52	61	70	84	101	102	111	123	126	148
	8N@ 3.75	24	21	32	40	51	63	73	83	99	111	124	146							
		28	20	30	37	44	53	61	73	80	86	114	126	149						
		32	18	26	34	42	49	55	63	71	79	104	117	130	154	161				
		36	17	23	32	39	46	54	61	69	76	89	108	121	134	154	169			
	10N@ 3.00	24	25	38	51	66	78	99	111	123	134									
		28	24	36	47	57	69	80	94	113	116	138								
		32	22	31	39	52	58	74	82	95	105	129	142							
		36	22	30	39	48	54	68	79	84	91	119	132	151						
32	3N@ 10.67	24	18	19	21	26	27	34	38	40	42	54	61	70	75	84	88	102	102	113
		28	16	17	18	24	26	28	31	34	37	43	55	60	69	70	76	85	89	93
		32	17	17	18	21	25	26	28	32	34	39	44	54	61	62	67	77	80	86
		36	15	17	19	20	23	25	26	28	30	38	40	45	51	53	58	67	81	77
	4N@ 8.00	24	18	19	23	26	32	37	40	47	55	61	72	86	94	103	114	133	134	
		28	15	18	20	24	28	32	37	40	45	55	62	70	78	94	96	105	121	135
		32	15	15	20	22	25	29	32	36	39	49	56	64	71	83	82	97	102	107
		36	15	16	17	21	24	26	30	34	36	43	50	58	65	70	85	90	99	102
	5N@ 6.40	24	15	20	27	33	39	44	51	57	65	77	93	100	123	133				
		28	15	18	24	28	34	39	46	52	58	66	74	96	101	110	126	137		
		32	15	17	22	26	32	35	41	46	53	61	68	77	90	99	105	114	130	142
		36	16	17	21	24	27	33	37	42	47	56	62	70	79	93	102	106	117	120
	6N@ 5.33	24	17	24	31	39	47	55	61	69	76	94	103	133	134					
		28	16	21	27	35	40	48	55	60	67	79	96	105	117	137				
		32	16	20	25	30	36	42	50	54	58	71	82	99	103	118	139	142		
		36	16	19	24	28	34	38	44	49	55	66	73	84	101	102	111	123	144	146
	8N@ 4.00	24	22	32	40	54	61	72	86	93	103	133								
		28	19	27	35	45	55	63	70	80	95	105	134	137						
		32	18	25	32	39	50	58	65	71	81	99	109	120	141					
		36	18	24	31	38	43	53	59	67	71	86	103	113	127	147				

ASD

GIRDER SPAN (ft.)	JOIST SPACES (ft.)	GIRDER DEPTH (in.)	JOIST GIRDER WEIGHT – POUNDS PER LINEAR FOOT LOAD ON EACH PANEL POINT – KIPS																	
			4	6	8	10	12	14	16	18	20	24	28	32	36	40	44	48	52	56
35	4N@ 8.75	28	16	19	23	27	31	36	41	46	52	60	74	79	94	100	111	117	137	138
		32	15	18	21	24	28	33	37	39	45	53	60	73	80	92	100	106	112	127
		36	15	16	20	23	27	30	33	37	41	561	55	62	74	83	94	97	107	113
		40	15	16	17	21	26	27	30	37	38	46	52	61	64	75	90	95	96	108
	5N@ 7.00	28	15	20	26	32	37	43	52	57	59	73	86	100	109	126	136			
		32	15	18	24	29	34	37	45	50	53	66	75	88	100	102	112	128	138	
		36	16	17	23	27	29	35	40	46	48	62	68	77	90	100	104	115	131	133
		40	16	17	22	25	27	33	37	43	47	56	63	70	80	95	102	107	115	125
	6N@ 5.83	28	17	24	30	37	44	52	58	65	73	93	103	115	134					
		32	16	21	27	33	38	46	53	57	65	79	96	100	117	139	140			
		36	16	20	25	31	36	41	48	54	58	70	81	99	102	113	121	142	144	
		40	16	20	24	28	34	38	44	49	55	64	77	84	101	104	115	123	145	146
	7N@ 5.00	28	19	27	34	43	52	59	66	74	86	101	115	135						
		32	17	24	30	39	47	53	61	67	75	97	103	118	137					
		36	17	23	28	35	42	48	55	62	69	82	99	105	120	141	144			
		40	17	22	27	32	39	44	50	55	63	73	86	102	107	118	133	147		
	8N@ 4.38	28	21	30	39	48	59	69	78	94	98	115	136							
		32	20	27	36	42	53	61	69	79	88	101	118	138						
		36	19	26	32	39	48	55	62	71	77	99	109	121	141					
		40	18	24	30	37	44	54	60	65	73	86	102	113	127	147	149			
38	4N@ 9.50	32	16	19	21	26	31	34	39	43	48	58	67	74	87	100	101	111	127	138
		36	15	17	21	24	28	33	35	39	44	53	60	74	75	93	97	106	112	123
		40	15	16	20	23	27	30	34	37	41	51	55	62	74	83	94	98	107	109
		44	16	16	20	22	26	28	30	35	38	46	52	58	65	75	90	95	95	108
	5N@ 7.60	32	15	20	25	31	36	42	46	52	59	70	86	96	101	111	126	137		
		36	16	20	24	28	33	38	45	47	53	64	74	89	98	103	112	129	138	
		40	16	20	23	26	31	35	40	46	48	59	70	78	91	101	105	113	117	134
		44	17	20	22	25	30	33	39	41	48	56	63	75	80	93	102	107	111	118
	6N@ 6.33	32	17	24	30	35	41	49	55	62	70	86	98	105	125	136				
		36	16	21	27	33	39	47	50	57	61	75	89	100	107	118	141	142		
		40	16	21	25	31	36	40	48	55	59	71	82	99	102	109	121	143	142	
		44	17	20	24	29	33	38	44	49	55	64	77	84	102	104	115	123	145	147
	8N@ 4.75	32	20	29	38	47	56	64	74	86	95	105	135							
		36	19	28	35	42	50	57	65	76	81	101	113	138	140					
		40	19	26	32	40	48	55	62	67	78	100	103	121	142	144				
		44	20	24	30	39	47	51	57	64	71	86	102	113	127	147	149			
40	4N@ 10.00	32	17	20	23	29	37	40	47	50	56	64	73	86	103	114	126	128	149	151
		36	17	19	22	29	31	37	40	44	51	57	65	74	87	103	104	125	127	128
		40	17	18	22	25	29	33	37	40	47	52	62	73	77	87	96	104	117	127
		44	16	17	20	24	29	31	36	38	41	49	59	66	74	78	84	96	106	106
		48	17	17	20	24	25	30	32	37	39	48	53	59	67	78	78	85	99	106
	5N@ 8.00	32	15	21	26	32	38	43	52	55	62	73	86	101	109	124	134			
		36	16	20	24	30	34	39	45	53	55	66	74	88	102	102	112	128	138	
		40	16	20	24	27	32	37	41	46	51	62	68	77	90	100	105	115	130	142
		44	17	20	23	29	32	37	41	49	50	58	70	82	84	99	116	118	130	141
		48	17	20	23	26	31	34	40	41	50	57	68	75	85	95	100	119	120	132
	6N@ 6.67	32	16	24	30	38	44	52	58	65	72	93	100	115	133					
		36	17	22	27	34	39	47	53	60	67	79	97	102	117	137	141			
		40	16	21	26	30	36	43	48	54	62	71	82	99	103	114	130	142		
		44	17	21	24	28	36	40	47	51	55	66	78	91	102	107	116	134	142	146
		48	17	21	24	31	36	42	46	53	57	69	79	86	100	109	132	133	135	164
	7N@ 5.71	32	18	26	33	43	52	58	66	74	86	101	115	135						
		36	17	24	31	39	47	53	61	67	75	97	103	117	136					
		40	17	24	29	35	43	49	55	62	69	82	99	105	119	140				
		44	20	22	28	33	39	48	55	59	64	78	92	102	111	122	143			
		48	20	23	28	36	41	48	54	61	66	80	86	108	122	134	136	164	167	
	8N@ 5.00	32	21	29	38	48	58	67	78	94	96	115	135							
		36	19	27	36	46	53	60	68	80	88	102	118	137						
		40	19	25	34	39	49	58	65	72	82	99	109	120	141					
		44	21	27	33	39	47	56	63	70	75	93	103	120	136	147				
		48	20	25	32	42	47	55	62	69	80	90	104	122	136	155	170			
	10N@ 4.00	32	29	39	51	64	79	92	112	123	125	149								
		36	25	36	47	60	69	81	94	103	125	150								
		40	24	36	45	56	66	75	82	96	115	129	152							
		44	23	32	41	51	60	71	82	84	99	119	143	161						
		48	23	32	41	52	58	68	76	85	94	121	134	152						

ASD

GIRDER SPAN (ft.)	JOIST SPACES (ft.)	GIRDER DEPTH (in.)	JOIST GIRDER WEIGHT – POUNDS PER LINEAR FOOT LOAD ON EACH PANEL POINT – KIPS																	
			4	6	8	10	12	14	16	18	20	24	28	32	36	40	44	48	52	56
42	4N@ 10.50	32	16	21	25	29	34	38	43	49	53	67	74	86	99	101	112	125	134	138
		36	16	19	22	26	32	35	39	44	47	58	67	73	87	95	101	112	118	129
		40	16	19	21	24	28	34	36	41	45	53	61	73	76	93	97	97	113	122
		44	16	19	20	23	27	31	34	38	42	51	55	62	74	84	94	97	108	109
		48	16	19	21	24	26	29	32	36	39	47	54	62	65	75	90	95	97	108
	5N@ 8.40	32	16	22	28	35	41	45	52	57	66	74	88	100	110	125				
		36	15	21	25	31	36	42	46	52	59	70	85	96	102	111	126	137		
		40	16	21	24	28	33	39	44	51	54	64	74	89	98	103	113	129	130	
		44	16	20	24	27	31	37	40	46	52	59	69	78	91	101	105	113	126	134
		48	17	20	23	27	30	35	39	42	48	57	63	75	81	95	102	107	115	118
	6N@ 7.00	32	18	25	32	39	45	55	61	69	77	93	103	124	135					
		36	17	23	30	35	41	49	56	60	67	79	96	105	117	137				
		40	17	21	26	33	39	46	54	57	61	75	89	100	108	119	141	142		
		44	16	21	24	31	35	41	48	54	59	71	81	100	102	109	121	143	142	
		48	20	20	25	29	33	39	44	49	56	64	77	85	102	104	115	124	145	147
	7N@ 6.00	32	20	28	36	45	52	65	72	85	93	102	125							
		36	19	26	34	40	49	56	67	74	79	98	110	127	138					
		40	18	24	31	38	46	54	61	68	75	90	101	113	129	142				
		44	20	23	29	35	41	49	55	63	70	78	100	106	116	132	145			
		48	18	23	28	34	39	44	50	56	64	73	92	102	108	118	136	149		
	8N@ 5.25	32	22	32	40	51	62	72	78	94	100	124	135							
		36	20	27	38	46	56	64	74	79	96	105	126	138						
		40	20	26	35	42	51	57	65	76	81	101	113	138	141					
		44	20	25	32	39	49	55	63	70	78	99	107	121	142	147				
		48	21	26	32	41	48	56	63	67	74	93	103	112	128	148				
	10N@ 4.20	32	27	38	52	62	77	94	101	114	134									
		36	25	36	46	60	70	86	97	102	112	140								
		40	24	34	45	54	64	75	89	99	104	129								
		44	23	31	41	52	61	70	79	91	100	114	143							
		48	23	30	39	49	56	66	72	80	93	107	125	146						
45	4N@ 11.25	36	18	21	25	28	33	38	42	46	52	62	72	79	95	100	112	117	128	138
		40	19	21	22	27	31	35	39	44	47	55	64	75	87	95	101	112	113	128
		44	19	21	22	24	29	33	37	39	45	53	61	74	76	89	95	102	108	114
		48	18	21	22	24	28	31	34	38	40	51	55	63	75	83	94	95	107	109
		52	18	22	23	24	27	29	33	37	39	47	52	60	66	76	91	95	96	109
	5N@ 9.00	36	16	22	27	33	38	44	52	55	63	74	86	101	109	125	136			
		40	16	21	25	30	36	42	45	53	56	68	75	88	102	111	122	128		
		44	16	21	24	29	34	38	44	46	54	65	74	85	90	103	110	123	130	142
		48	20	21	24	27	32	36	41	45	52	59	67	75	91	95	106	112	118	134
		52	20	21	24	27	30	35	39	42	48	57	64	75	81	94	98	107	117	119
	6N@ 7.50	36	19	24	31	38	45	52	58	66	74	93	100	115	134					
		40	19	23	28	34	40	47	53	60	67	79	97	103	117	137	140			
		44	19	21	27	32	38	46	50	54	62	76	90	100	107	118	139	142		
		48	20	21	26	30	36	42	48	55	59	69	78	92	102	110	122	143	143	
		52	20	21	25	29	34	39	44	50	56	64	77	85	102	102	116	124	136	148
	7N@ 6.43	36	20	27	35	44	52	58	66	74	86	101	115	135						
		40	20	26	33	40	47	54	61	67	75	97	105	127	138					
		44	20	24	30	39	46	54	61	62	69	90	100	113	129	143				
		48	20	23	29	36	41	49	55	63	70	79	92	107	117	133	145			
		52	18	23	28	34	39	45	50	56	65	73	93	102	109	118	136	149		
	8N@ 5.62	36	21	30	38	48	58	67	78	94	98	114	135							
		40	20	28	36	46	53	61	68	80	89	105	118	137						
		44	20	27	34	41	51	58	66	73	81	99	109	130	141					
		48	21	26	32	39	47	55	63	68	74	92	104	116	142	146				
		52	22	28	33	42	48	54	59	67	71	94	102	112	127	148				
	9N@ 5.00	36	24	34	45	55	66	74	88	98	104	135								
		40	22	31	39	49	61	69	80	89	100	113	138							
		44	23	31	39	48	58	66	76	89	99	108	132							
		48	23	29	37	47	55	63	70	79	91	106	117	133						
		52	23	28	36	46	55	60	70	73	84	102	112	135	148					
	10N@ 4.50	36	26	38	49	60	73	86	98	105	116	137								
		40	25	35	47	60	66	76	90	102	112	140								
		44	24	33	46	54	64	72	89	99	104	130	142							
		48	24	31	40	49	62	71	78	91	100	114	134							
		52	23	31	39	50	56	67	72	80	93	107	123	147						

ASD

GIRDER SPAN (ft.)	JOIST SPACES (ft.)	GIRDER DEPTH (in.)	JOIST GIRDER WEIGHT – POUNDS PER LINEAR FOOT LOAD ON EACH PANEL POINT – KIPS																	
			4	6	8	10	12	14	16	18	20	24	28	32	36	40	44	48	52	56
48	5N@ 9.60	36	19	26	31	37	45	52	59	66	71	87	111	113	135	136				
		40	19	23	29	35	41	46	52	59	68	77	92	112	114	136	138			
		44	19	22	27	32	37	44	48	54	61	69	80	93	113	116	126	139	150	
		48	19	21	25	30	36	40	48	48	55	69	78	90	96	115	116	128	140	142
		52	20	21	25	29	33	39	42	50	54	62	71	82	92	99	117	118	130	141
		56	20	21	24	29	33	38	40	46	50	59	71	79	85	100	100	119	120	133
	6N@ 8.00	36	20	28	35	42	51	62	70	78	83	100	122	134	147					
		40	19	25	33	39	47	56	64	71	79	93	112	124	137	148				
		44	19	24	31	36	45	50	57	65	73	81	102	115	127	138	151			
		48	19	23	30	35	40	48	52	59	67	78	95	105	116	129	141	160		
		52	20	23	27	32	38	46	51	59	60	75	83	97	107	130	131	144	162	
		56	20	22	27	31	37	42	48	54	61	69	80	91	107	120	132	134	153	165
	8N@ 6.00	36	30	36	45	56	64	78	91	100	122	134								
		40	28	33	42	51	59	70	80	92	101	124	148							
		44	27	32	39	49	55	65	74	82	95	114	127	150						
		48	26	30	37	47	53	60	68	76	84	105	129	131	154					
		52	26	30	36	44	51	59	65	71	80	99	119	132	146	164				
		56	25	28	36	43	49	57	63	69	78	90	109	123	136	155				
	9N@ 5.33	36	35	44	55	70	79	91	99	121	122	146								
		40	34	42	52	63	74	88	93	101	113	136								
		44	33	39	50	59	69	83	91	94	103	126	150							
		48	33	37	46	56	66	76	85	94	97	118	130							
		52	31	36	46	54	63	72	80	95	101	108	132	152						
		56	31	35	44	53	62	69	80	89	98	103	123	137	165					
	12N@ 4.00	36	35	52	71	84	100	123	135	148										
		40	34	48	65	76	93	113	125	137	149									
		44	31	44	57	73	82	102	115	126	139									
		48	30	41	53	67	76	88	104	117	130	153								
		52	30	39	52	61	76	84	97	107	131	144								
		56	27	38	49	61	70	81	91	108	122	135	165							
50	5N@ 10.00	40	18	23	30	38	44	47	56	60	68	79	93	113	124	136	138			
		44	17	22	29	34	40	46	51	56	61	76	89	94	113	126	137	139		
		48	19	22	28	31	38	42	48	55	61	69	78	94	96	115	127	139	141	
		52	20	22	25	31	35	40	45	49	55	62	74	82	96	116	117	129	141	142
		56	20	22	25	30	32	40	43	50	51	63	71	83	92	99	117	119	131	142
		60	20	20	24	30	33	36	42	46	51	58	65	76	86	96	101	120	121	133
	6N@ 8.33	40	20	28	34	42	48	56	64	71	80	100	112	124	147					
		44	19	24	31	38	47	50	57	65	73	85	102	124	127	149				
		48	19	23	30	37	40	49	57	65	67	82	95	115	127	129	151			
		52	20	23	30	36	40	46	52	59	67	75	84	105	117	129	131	153	162	
		56	20	23	26	33	39	42	51	54	60	72	84	98	107	120	132	144	163	164
		60	21	23	27	33	38	43	49	53	61	70	80	87	102	110	123	134	154	165
	8N@ 6.25	40	22	31	39	51	59	67	78	86	96	110	135							
		44	21	29	37	47	53	61	70	80	96	103	118	139						
		48	21	27	35	42	51	58	69	76	81	99	114	130	142					
		52	21	25	33	40	49	55	63	70	78	99	107	121	141					
		56	24	29	36	42	47	56	64	68	78	94	108	118	137	148				
		60	24	27	35	40	47	55	61	69	74	83	103	110	123	139	149			
	9N@ 5.56	40	24	34	44	55	66	74	86	96	104	134								
		44	23	32	40	53	61	69	80	88	98	113	138							
		48	24	32	42	52	58	69	77	90	99	111	133							
		52	24	31	40	47	58	66	74	79	92	106	126	143						
		56	24	30	38	46	55	60	68	77	89	102	116	135						
		60	24	32	38	49	53	61	70	75	83	97	111	125	141					
	10N@ 5.00	40	26	38	49	60	74	87	96	104	116	136								
		44	25	36	47	60	68	84	96	102	112	140								
		48	24	34	46	54	65	76	89	99	103	130								
		52	24	34	45	52	62	70	79	91	100	114	134							
		56	23	32	41	48	60	70	76	87	93	107	134	146						
		60	24	31	40	49	57	66	73	81	94	109	119	138						
	12N@ 4.17	40	34	49	65	80	100	112	125	147										
		44	31	44	57	73	86	102	126	127	149									
		48	30	41	58	67	82	96	115	127	130	154								
		52	30	39	53	68	76	84	105	118	130	154								
		56	27	40	52	61	70	85	99	108	122	135	164							
		60	27	39	49	61	70	82	88	104	112	135	166							

ASD

GIRDER SPAN (ft.)	JOIST SPACES (ft.)	GIRDER DEPTH (in.)	JOIST GIRDER WEIGHT – POUNDS PER LINEAR FOOT LOAD ON EACH PANEL POINT – KIPS																	
			4	5	6	7	8	9	10	11	12	13	14	16	18	20	22	24	26	28
55	5N@ 11.00	44	21	21	24	25	29	32	35	38	41	43	47	53	59	63	71	82	83	86
		48	21	21	23	24	28	30	32	35	38	41	43	49	56	60	64	71	73	83
		52	20	22	23	25	27	29	32	33	36	39	42	44	52	57	65	66	74	74
		56	20	21	24	24	26	28	31	33	36	37	39	44	51	53	58	66	66	74
		60	23	24	24	24	27	27	31	33	35	38	38	45	47	52	60	61	67	68
		66	24	24	24	25	26	28	28	33	34	37	37	42	47	48	55	56	62	69
	6N@ 9.17	44	19	22	26	29	33	36	38	43	45	51	52	59	66	75	86	86	98	101
		48	20	22	24	28	31	33	36	40	44	46	50	56	64	68	75	87	89	98
		52	20	22	24	26	29	33	35	37	41	59	59	66	74	86	93	99	109	110
		56	18	21	24	25	28	31	35	36	39	42	47	52	55	63	70	71	78	91
		60	20	21	24	25	29	30	33	35	38	39	43	48	55	60	64	71	75	80
		66	19	20	22	24	28	30	31	33	36	39	40	47	50	56	62	65	73	73
	7N@ 7.86	44	21	24	28	33	36	39	44	50	53	59	59	70	75	87	97	102	111	120
		48	21	24	27	31	34	38	43	45	51	54	56	65	72	76	89	98	103	110
		52	21	23	26	29	33	36	39	44	46	52	55	62	69	74	86	91	100	105
		56	20	22	25	28	31	35	38	40	46	48	53	55	64	70	79	87	92	101
		60	21	22	24	27	30	33	36	39	41	47	49	56	64	68	72	81	93	94
		66	22	22	24	26	30	32	36	37	40	43	48	52	58	65	70	74	83	84
	9N@ 6.11	44	24	29	34	39	46	52	55	60	67	74	74	87	98	105	116	135	137	
		48	24	28	32	38	40	47	53	57	61	68	69	81	97	103	107	118	129	139
		52	25	30	33	39	43	47	52	57	65	65	73	77	90	104	105	114	125	133
		56	24	29	32	38	43	46	51	53	59	66	67	75	87	92	105	107	117	128
		60	24	27	32	36	40	45	47	52	56	60	67	71	80	93	95	108	109	118
		66	24	27	31	35	39	42	46	49	54	58	61	71	78	83	91	97	111	113
	11N@ 5.00	44	30	36	43	49	55	63	67	74	87	88	97	106	126	137				
		48	28	33	39	45	54	61	65	69	76	87	89	103	112	128	139			
		52	27	34	37	44	52	55	62	66	73	77	88	99	105	115	131	142		
		56	27	33	39	42	48	54	60	64	68	77	80	93	102	107	118	134	146	
		60	26	31	37	40	47	49	58	64	67	72	77	82	95	108	110	121	137	148
		66	26	31	36	39	45	50	54	60	65	68	74	82	97	98	113	117	126	141
60	5N@ 12.00	48	21	23	27	29	33	35	39	43	44	49	51	57	63	69	76	87	89	94
		52	21	22	27	28	31	33	36	40	44	45	47	52	60	65	69	77	85	90
		56	22	23	24	28	30	31	34	36	41	44	45	52	59	63	69	74	78	87
		60	22	23	24	28	29	32	34	35	40	42	45	49	53	60	66	70	75	80
		66	24	24	24	26	30	30	33	35	36	38	42	47	51	56	61	67	72	73
		72	25	25	25	25	27	30	31	35	36	37	39	45	48	56	56	63	69	70
	6N@ 10.00	48	20	24	29	32	36	38	41	47	49	56	60	67	72	80	93	93	112	113
		52	20	23	28	30	33	37	39	46	48	50	57	62	69	78	80	94	94	113
		56	19	24	25	30	33	38	39	42	48	49	51	58	66	69	79	83	95	96
		60	19	23	24	29	32	34	39	40	43	49	50	57	63	70	75	83	83	96
		66	19	23	24	27	32	32	34	40	42	44	50	52	61	65	69	77	84	85
		72	22	22	24	27	28	33	34	36	41	43	44	52	54	63	68	71	75	87
	8N@ 7.50	48	24	29	34	39	43	49	56	57	64	72	72	80	93	112	123	125	136	148
		52	23	29	31	37	40	48	50	57	58	66	72	81	94	103	114	125	127	139
		56	23	26	31	36	38	44	49	51	58	60	66	75	83	96	104	116	127	129
		60	23	26	32	33	39	42	47	50	53	59	61	69	77	85	98	106	118	129
		66	28	30	33	34	41	43	46	48	53	57	62	70	78	82	90	100	108	120
		72	29	30	31	34	36	41	46	47	52	58	59	66	73	80	90	92	104	110
	10N@ 6.00	48	26	32	37	44	49	55	60	67	74	79	87	97	105	118	137	138		
		52	28	34	38	44	50	56	64	65	71	75	88	97	103	113	130	138		
		56	27	33	37	43	46	51	58	66	65	72	76	90	104	105	123	131	143	
		60	25	31	37	39	45	51	57	60	66	70	73	86	93	104	111	126	134	
		66	27	32	37	42	49	51	56	62	65	72	74	85	95	102	120	122	134	145
		72	26	32	33	38	42	47	50	55	59	66	69	74	83	96	98	111	111	121
	12N@ 5.00	48	33	39	46	53	59	68	75	86	87	97	102	111	135					
		52	31	37	45	51	57	65	69	76	88	89	98	104	118	139				
		56	29	36	41	48	55	62	66	72	77	89	91	104	113	129	140			
		60	30	35	39	47	54	56	64	73	74	79	91	102	106	116	133	145		
		66	32	35	41	48	53	61	62	70	77	80	87	100	110	122	134	147	164	
		72	29	33	38	42	50	52	60	61	69	72	77	86	100	110	114	127	142	151
	15N@ 4.00	48	40	49	64	72	80	93	102	113	124	126	136							
		52	39	48	57	66	74	81	94	103	114	126	127	150						
		56	38	46	53	67	71	80	83	96	104	116	127	140	153					
		60	38	42	51	60	68	76	83	89	98	106	118	132	144					
		66	35	41	49	55	62	70	81	87	87	103	110	123	136	153	167			
		72	35	44	46	55	64	66	77	85	90	93	106	125	139	142	160	171		

ASD

GIRDER SPAN (ft.)	JOIST SPACES (ft.)	GIRDER DEPTH (in.)	JOIST GIRDER WEIGHT – POUNDS PER LINEAR FOOT LOAD ON EACH PANEL POINT – KIPS																	
			4	5	6	7	8	9	10	11	12	13	14	16	18	20	22	24	26	28
65	6N@ 10.83	52	22	28	30	33	39	41	45	49	54	58	61	69	78	83	95	97	115	116
		56	21	25	29	33	35	40	42	48	49	55	58	63	70	80	84	97	97	117
		60	23	24	29	32	34	39	41	44	50	50	56	64	71	76	82	92	98	99
		66	22	24	26	31	33	35	40	42	45	51	51	58	65	73	78	83	87	100
		72	24	25	27	31	32	35	37	42	43	47	49	54	60	68	76	80	87	89
	8N@ 8.12	52	25	31	38	40	44	51	58	62	66	74	74	83	97	115	127	129	141	153
		56	24	30	34	39	43	50	52	59	63	68	74	83	97	105	118	129	131	143
		60	23	28	33	39	41	47	51	53	60	68	69	77	85	99	108	119	130	133
		66	24	28	33	35	42	44	49	52	56	63	63	75	80	89	101	110	122	124
		72	38	39	39	39	42	45	47	52	56	58	65	73	78	89	92	104	113	125
	9N@ 7.22	52	30	32	38	44	49	58	62	67	74	79	83	97	116	128	129	142	153	
		56	26	32	39	42	48	53	59	68	68	76	81	98	106	118	130	142	144	155
		60	25	32	38	40	47	51	58	60	69	70	78	86	100	109	120	132	145	146
		66	28	32	37	41	44	50	53	60	64	71	72	81	89	103	112	124	136	138
		72	29	30	35	38	44	46	52	57	62	66	71	79	91	91	108	115	127	140
	10N@ 6.50	52	31	36	41	49	58	62	67	75	82	89	97	116	128	131	154	155		
		56	31	36	40	46	52	60	68	69	77	85	91	107	119	132	144			
		60	29	34	40	44	51	57	61	70	74	78	87	100	109	122	134	146		
		66	27	34	39	43	50	54	60	65	72	74	82	90	103	113	125	138	140	163
		72	27	33	37	44	47	52	56	62	67	75	76	87	93	110	127	129	141	143
	11N@ 5.91	52	33	39	45	52	59	67	75	83	89	98	106	118	131	153				
		56	32	39	44	51	60	64	69	77	85	91	99	119	132	144	156			
		60	33	38	44	49	55	63	70	74	79	86	92	109	122	134	147			
		66	30	37	42	46	54	57	64	72	73	81	90	104	113	125	139	147	164	
		72	30	36	41	47	51	57	62	67	77	77	88	93	110	118	131	144	156	173
	13N@ 5.00	52	37	45	55	64	72	79	89	98	106	117	130	142						
		56	37	43	53	61	69	77	86	91	99	108	120	133	146					
		60	35	41	50	58	64	71	77	85	93	100	108	131	134	158				
		66	34	41	49	53	62	70	75	80	87	93	102	122	134	137	161			
		72	34	41	46	53	58	64	72	78	85	90	90	113	127	138	141	170		
70	7N@ 10.00	56	24	25	30	35	39	43	46	51	56	57	64	71	83	88	102	102	110	121
		60	23	26	30	33	37	43	44	50	52	57	61	66	73	85	90	102	105	111
		66	24	27	30	32	35	39	44	46	51	53	58	67	73	75	87	93	104	106
		72	24	25	29	32	34	38	42	46	47	53	54	60	69	76	78	89	94	102
		78	25	26	28	31	34	37	40	43	47	49	50	58	63	71	78	83	90	96
		84	24	27	29	31	35	37	39	42	44	49	51	57	65	69	72	80	85	94
	9N@ 7.78	56	26	31	37	40	45	53	56	61	67	72	75	88	102	110	122	128		
		60	25	30	35	39	45	47	54	61	65	70	73	89	99	105	114	129	131	
		66	31	34	38	43	48	51	56	63	67	70	74	86	92	106	112	122	127	
		72	32	33	37	43	45	51	56	58	64	67	69	77	89	100	108	114	124	131
		78	32	34	36	39	45	48	53	59	60	66	66	76	87	93	102	110	116	118
		84	33	34	35	38	45	47	50	55	59	63	67	72	81	94	95	103	113	118
	10N@ 7.00	56	27	34	38	45	53	57	60	68	75	80	88	100	106	118	137			
		60	30	36	41	48	55	60	65	69	71	84	88	102	109	122	130			
		66	29	35	42	44	51	55	62	66	70	73	85	91	105	109	123	132		
		72	30	34	38	43	47	52	59	63	66	69	78	88	94	106	112	127	133	
		78	30	33	37	40	46	51	55	61	65	71	71	79	94	96	108	115	130	137
		84	31	33	36	40	47	49	55	57	63	70	72	80	92	98	109	112	121	133
	11N@ 6.36	56	32	41	45	51	60	64	71	83	87	89	102	108	127	138				
		60	30	39	44	50	57	65	66	73	85	89	90	104	114	129				
		66	31	38	43	46	53	59	67	67	76	86	88	105	106	117	132			
		72	32	37	42	48	55	57	62	70	70	78	82	94	108	109	119	136	148	
		78	29	35	40	47	50	55	61	65	73	72	80	92	98	110	118	124	140	141
		84	30	36	39	45	49	52	59	66	68	73	78	84	97	102	116	124	129	144
	12N@ 5.83	56	34	41	50	56	63	68	76	87	88	102	103	113	129					
		60	33	39	46	55	58	65	74	76	89	90	103	112	128	139				
		66	32	37	45	48	55	63	67	76	78	90	92	105	115	130	143			
		72	32	37	42	48	55	61	65	69	77	80	89	102	107	119	135	148		
		78	30	36	42	48	51	56	64	70	72	80	84	97	106	113	123	141	151	
		84	30	36	40	45	51	53	61	68	73	77	83	89	102	115	118	128	144	151
	14N@ 5.00	56	36	44	53	63	71	75	87	96	102	111	120	137						
		60	37	43	54	61	69	75	88	89	99	103	112	128						
		66	35	42	48	55	64	70	77	90	92	102	106	115	132					
		72	34	40	49	55	61	69	73	81	91	95	103	110	120	138				
		78	33	39	44	52	58	67	72	76	84	92	97	111	120	138	141			
		84	33	40	44	51	58	62	69	78	79	86	97	106	116	127	143	155		

ASD

GIRDER SPAN (ft.)	JOIST SPACES (ft.)	GIRDER DEPTH (in.)	JOIST GIRDER WEIGHT – POUNDS PER LINEAR FOOT LOAD ON EACH PANEL POINT – KIPS																	
			4	5	6	7	8	9	10	11	12	13	14	16	18	20	22	24	26	28
75	8N@ 9.38	56	29	33	40	43	49	55	61	65	73	79	82	95	115	116	128	140	152	
		60	26	32	38	42	48	51	58	63	70	75	80	92	97	116	118	130	142	153
		66	27	32	35	41	44	51	53	60	64	69	72	82	98	99	118	120	132	144
		72	26	32	34	41	43	46	52	58	61	66	71	79	87	100	101	121	122	134
		78	27	29	34	37	43	45	54	54	61	64	69	77	81	89	103	105	123	125
	10N@ 7.50	60	32	39	42	50	59	67	69	76	83	89	98	117	129	131	154			
		66	32	37	42	49	55	62	69	70	78	86	87	100	119	132	134			
		72	30	36	42	45	54	57	63	72	73	81	86	101	111	123	136	138		
		78	31	35	39	46	48	56	63	66	74	75	82	91	105	114	127	139	152	
		84	31	36	39	45	49	55	59	65	69	77	78	94	95	110	128	131	143	156
	12N@ 6.25	60	38	43	51	59	68	76	84	90	98	106	118	131	144					
		66	35	42	50	55	62	70	79	87	90	100	110	122	135	148				
		72	36	41	46	54	63	65	73	81	90	91	104	124	126	141	154			
		78	35	42	47	54	61	68	76	78	86	90	98	105	126	139	152	163		
		84	34	39	46	52	56	64	70	78	79	90	92	106	126	139	141	164	171	
	14N@ 5.36	66	41	48	56	63	72	80	89	102	111	122	125	137						
		72	41	46	52	61	70	75	84	95	101	110	121	134	148					
		78	37	44	53	61	68	76	80	89	98	103	107	125	139	151				
		84	38	44	52	57	64	71	79	86	92	100	108	127	130	153	171			
		90	37	42	50	58	66	73	77	87	94	94	110	119	142	144	173	176		
	15N@ 5.00	66	41	52	60	69	77	85	98	106	118	120	132	146						
		72	42	52	59	67	74	84	87	99	110	121	123	146	160					
		78	41	47	54	65	73	77	88	91	104	112	124	139	152	169				
		84	39	46	55	63	67	76	86	92	93	109	116	131	143	171	174			
		90	38	46	52	60	69	74	81	90	95	103	118	133	145	146	177			
80	8N@ 10.00	60	28	31	37	42	45	51	56	63	64	72	75	88	97	103	112	127	137	
		66	30	31	35	38	45	47	52	57	62	65	70	77	90	103	105	113	129	131
		72	29	32	33	38	41	46	48	53	59	63	68	76	87	92	106	108	116	126
		78	30	31	33	37	41	42	47	53	56	60	64	73	81	88	94	109	111	118
		84	30	32	35	37	39	43	48	52	56	59	63	71	79	83	96	98	112	114
		90	53	54	56	56	57	57	58	60	63	67	70	79	79	90	95	103	105	118
	10N@ 8.00	60	31	35	41	47	53	60	68	75	76	88	97	103	112	129	139			
		66	31	35	39	46	52	55	62	70	75	78	90	100	107	115	132	142		
		72	33	37	43	50	55	62	63	70	74	83	87	97	106	120	127			
		78	32	36	42	46	51	56	63	68	71	76	86	90	100	112	122	130		
		84	33	37	42	45	51	57	61	65	70	77	78	91	100	109	115	125	131	
		90	34	36	40	44	49	53	60	65	68	72	77	87	92	102	111	118	132	136
	12N@ 6.67	66	36	44	50	57	65	70	73	86	90	103	103	115	130					
		72	34	42	47	54	59	67	72	77	86	92	101	107	125	133				
		78	33	39	46	53	60	65	69	79	80	88	94	108	114	129	136			
		84	34	38	47	49	56	63	70	72	79	83	92	99	111	121	138	140		
		90	36	39	44	50	56	59	66	72	74	82	86	101	113	116	125	143	149	
		96	34	37	43	50	54	60	68	71	75	79	85	98	104	117	120	130	147	156
	14N@ 5.71	66	39	47	57	64	73	77	89	98	103	109	113	129						
		72	38	46	54	59	67	76	79	91	101	106	106	125	143					
		78	36	43	50	58	66	70	78	90	95	96	109	118	136	149				
		84	36	42	50	56	64	71	74	80	92	98	99	112	124	143				
		90	36	41	48	53	61	68	74	82	86	95	100	115	121	136	146			
		96	37	40	47	53	61	67	74	79	84	88	100	108	118	127	145	152		
	16N@ 5.00	66	42	53	62	70	78	90	101	105	113	129	130							
		72	41	50	57	69	76	81	93	102	109	116	118	145						
		78	41	49	58	66	73	83	91	96	104	112	120	137	149					
		84	39	45	54	61	69	76	84	97	100	109	115	126	143					
		90	39	46	54	62	70	74	80	86	101	102	114	119	144	155				
		96	40	46	55	58	68	73	81	88	94	106	110	121	133	155	164			

ASD

GIRDER SPAN (ft.)	JOIST SPACES (ft.)	GIRDER DEPTH (in.)	JOIST GIRDER WEIGHT – POUNDS PER LINEAR FOOT LOAD ON EACH PANEL POINT – KIPS																
			4	5	6	7	8	9	10	11	12	13	14	16	18	20	22	24	26	28
90	9N@ 10.00	72	40	42	46	49	55	60	64	72	81	82	92	98	117	119	141	143		
		84	41	44	48	48	50	54	60	67	75	76	84	88	102	121	124	135	148	149
		90	54	55	56	56	57	59	62	65	72	77	85	88	99	105	125	128	138	
		96	55	56	57	57	58	59	64	65	69	74	80	91	98	107	110	128	131	142
		102	55	57	57	58	59	60	62	65	69	74	75	87	95	105	112	130	133	134
	10N@ 9.00	72	42	46	48	52	61	64	72	78	85	93	99	118	130	142	155			
		84	42	45	49	51	58	62	69	73	81	94	97	115	117	137	148			
		90	42	46	50	51	56	60	66	71	79	81	89	100	107	126	129	141		
		96	43	46	48	53	56	59	66	70	74	82	87	95	108	113	129	133	153	
		102	43	45	48	53	57	60	65	69	76	77	84	97	105	115	124	131	137	155
	11N@ 8.18	72	43	47	51	59	65	73	78	86	99	100	119	120	143					
		84	43	49	50	55	62	67	74	78	87	91	100	113	126	138	150			
		90	45	48	51	53	59	66	72	77	85	90	93	107	128	129	142			
		96	47	48	53	56	60	63	71	75	81	87	95	105	113	132	134	148		
		102	48	49	57	58	61	64	70	73	82	86	94	101	116	124	138	150	163	
	12N@ 7.50	78	44	49	53	60	68	72	79	88	102	103	111	124	149					
		84	45	49	52	56	65	75	79	84	91	103	105	125	137	149				
		90	46	50	52	60	68	75	79	88	89	100	106	126	128	151	152			
		96	46	48	52	58	63	72	76	82	90	93	103	110	129	132	153	156		
		108	45	49	55	56	64	66	76	81	85	92	97	107	115	135	137	160	168	
	15N@ 6.00	78	47	54	66	75	82	94	99	120	121	133	145	148						
		84	49	54	62	68	76	86	97	103	122	124	125	149						
		90	50	52	60	69	78	82	90	99	106	125	127	140	153					
		96	48	53	58	66	72	80	93	95	108	112	129	131	154	173				
		108	51	57	59	64	72	78	87	99	101	109	115	136	139	168	172			
	18N@ 5.00	78	51	62	74	84	99	102	120	133	145	148	159							
		84	51	61	73	80	89	104	113	124	137	150	151							
		90	52	58	70	79	90	93	106	126	129	142	153	166						
		96	53	58	68	78	87	95	108	113	131	133	144	158						
		108	57	59	64	76	85	95	103	113	120	127	139	151	172					
100	10N@ 10.00	78	45	49	52	55	58	62	68	75	79	91	92	106	115	131	140			
		84	47	50	53	55	58	61	69	72	77	81	93	102	109	118	133	143		
		96	55	56	56	57	62	64	68	74	84	86	87	102	116	125	126			
		102	55	56	57	58	61	64	66	73	77	86	89	100	106	121	127	133		
		108	56	57	58	59	61	64	67	70	76	80	87	92	106	107	127	130		
	12N@ 8.33	78	48	53	56	62	70	74	86	92	97	105	112	124						
		84	48	52	55	63	68	72	84	88	98	99	107	126	133					
		96	47	51	55	58	66	67	75	81	91	93	102	111	116	131				
		102	48	52	55	58	62	69	73	79	90	94	95	113	118	133	141			
		108	48	51	55	59	62	70	72	76	85	92	97	106	117	123	139	149		
	15N@ 6.67	78	53	56	67	75	86	91	104	106	115	125	133							
		84	53	56	61	69	78	88	94	107	113	118	128							
		96	52	56	61	68	72	82	93	99	105	114	118	133						
		102	53	56	60	66	74	83	85	97	102	116	117	125	144					
		108	53	56	59	65	73	77	87	99	103	104	118	123	140	149				
	16N@ 6.25	84	53	58	69	72	80	92	106	107	117	127	133							
		96	53	57	63	71	75	85	98	100	115	115	124	140						
		102	53	57	62	66	74	84	97	102	111	117	118	136	154					
		108	54	58	62	67	76	82	87	100	104	117	118	129	148					
		120	56	61	64	70	76	83	86	93	104	109	116	128	140	161				
	17N@ 5.88	84	55	61	70	77	88	94	107	114	127	133	145							
		96	54	59	65	72	80	93	99	113	115	121	135	151						
		102	55	59	66	73	79	87	98	102	118	118	127	144						
		108	55	60	65	69	78	87	91	105	107	119	120	140	160					
		120	56	62	67	71	78	87	93	100	110	112	125	133	149	168				
	18N@ 5.56	84	55	61	70	81	94	102	109	118	134	144								
		96	55	60	65	72	84	97	100	114	120	124	140							
		102	56	61	66	73	84	89	102	112	118	125	137	154						
		108	57	60	68	73	82	91	104	106	119	121	130	148						
		120	59	64	69	75	84	88	98	108	113	122	129	142	163					
	20N@ 5.00	84	58	66	77	94	103	109	118	134	146									
		96	60	65	73	83	99	108	115	123	125	144	153							
		102	59	65	71	80	89	103	114	121	129	147	147							
		108	60	67	71	80	89	106	110	123	126	134	149	164						
		120	68	73	90	101	108	113	123	133	152	155	166	182	200					

ASD

GIRDER SPAN (ft.)	JOIST SPACES (ft.)	GIRDER DEPTH (in.)	JOIST GIRDER WEIGHT – POUNDS PER LINEAR FOOT LOAD ON EACH PANEL POINT – KIPS																	
			4	5	6	7	8	9	10	11	12	13	14	16	18	20	22	24	26	28
110	10N@ 11.00	84	54	58	61	65	69	73	82	83	94	99	100	120	143	144				
		96	62	62	63	65	69	72	81	82	91	97	98	107	125					
		108	63	63	64	67	69	72	75	82	86	91	95	105	113	131	133			
		114	63	64	67	68	72	73	76	79	86	88	96	108	115	133	136			
		120	64	64	66	69	72	74	76	81	83	88	90	100	111	128	137	140		
	12N@ 9.17	84	58	62	66	70	74	84	88	101	109	120	122	144						
		96	57	62	66	70	74	79	88	92	101	107	125	127	151					
		108	58	64	68	72	75	79	84	90	95	106	111	132	136	158				
		114	59	65	66	71	75	79	84	89	102	106	107	126	134	156	158			
		120	59	62	67	72	74	79	82	91	96	107	109	126	135	158	161			
	14N@ 7.86	84	60	66	71	76	84	97	102	122	123	134	147							
		96	60	65	69	74	83	95	100	105	124	125	136	150						
		108	60	64	69	72	78	87	99	103	108	120	128	142	155					
		114	61	65	69	74	79	84	93	103	105	111	124	133	157					
		120	60	66	69	74	80	82	90	96	106	109	126	135	158	160				
	16N@ 6.88	96	62	68	72	79	89	104	106	125	126	147	149							
		102	63	67	74	80	89	103	108	125	127	128	152	156						
		108	64	68	73	81	83	95	104	110	127	130	142	158						
		114	65	70	74	80	86	95	105	111	114	132	135	161	162					
		120	66	69	75	81	88	97	99	109	117	135	138	152	165					
	18N@ 6.11	96	64	71	77	87	99	106	125	127	148	151								
		102	66	70	80	89	101	109	127	128	139	152	153							
		108	66	71	77	83	94	106	111	129	131	144	157							
		114	67	73	79	85	97	107	113	132	134	137	159	163						
		120	68	74	79	88	91	101	110	118	136	139	152	166						
	20N@ 5.50	96	68	77	82	99	106	125	139	152	154									
		102	69	75	81	94	109	129	130	142	154	155								
		108	69	77	83	94	106	114	132	133	145	157	169							
		114	69	77	86	91	101	115	134	135	147	160	161							
		120	66	72	77	83	93	106	113	126	128	137	154	167						
120	10N@ 12.00	96	63	66	69	72	76	78	82	86	89	89	94	108	115	129				
		102	64	67	69	71	75	79	83	83	86	91	92	110	117	131	137			
		108	78	79	82	83	83	83	86	91	95	94	100	108	126					
		114	78	79	82	83	83	84	86	91	90	95	95	109	127	128				
		120	79	81	83	84	84	85	86	88	92	92	97	102	113	133				
	12N@ 10.00	96	68	69	71	77	82	86	90	99	100	113	125	130						
		102	68	69	72	78	80	85	88	96	101	102	116	130						
		108	69	70	72	75	81	86	90	91	99	103	105	128	134					
		114	70	70	71	75	82	86	87	92	95	100	130	121	135					
		120	70	71	72	76	80	84	88	92	93	102	107	123	133	138				
	15N@ 8.00	96	69	74	77	82	90	96	109	115	125	129	134							
		102	70	73	78	84	88	93	103	113	118	129	132							
		108	70	73	80	85	90	95	101	106	115	119	133							
		114	70	73	78	83	88	93	98	107	117	121	122	137						
		120	72	74	78	84	89	94	99	100	110	118	124	140						
	16N@ 7.50	96	70	76	80	85	90	100	109	114	128	134								
		102	70	74	78	86	92	97	110	112	120	131	137							
		108	70	74	80	85	90	95	100	114	120	124	133							
		114	70	73	81	86	91	96	101	107	117	122	135	145						
		120	70	75	79	85	90	94	99	103	118	119	126	147						
	18N@ 6.67	96	71	77	85	89	95	109	116	129	136									
		102	72	78	83	87	97	111	113	121	138	138								
		108	72	79	84	88	94	101	115	121	156	157								
		114	72	76	85	90	96	102	116	117	123	136	143							
		120	73	77	84	89	95	99	105	118	125	129	140							
	20N@ 6.00	96	76	82	89	94	110	116	130	136										
		102	75	83	87	92	105	114	123	140	150									
		108	75	81	88	94	101	115	121	135	142	152								
		114	77	82	87	93	103	113	119	128	138	146								
		120	77	84	90	96	102	107	121	124	133	148	150							
	24N@ 5.00	96	83	90	96	111	121	136												
		102	81	88	99	108	118	140	151											
		108	83	91	96	103	119	129	147	157										
		114	86	96	109	121	141	143	152	160										
		120	86	97	107	117	143	146	152	163	165									