Steel Joist Institute 42nd Edition Catalog

First Printing – December 2005

Standard Specifications, Load Tables and Weight Tables for Steel Joists and Joist Girders

K-Series

LH-Series

DLH-Series

Joist Girders

This document containing the errata to the Steel Joist Institute 42nd Edition Catalog will be periodically updated as needed and posted on the SJI website at www.steeljoist.org . The errata are organized by date in descending order (most recent to furthest past) hence regular users of this document need only review the errata posted since their previous use.

Errata Posted on December 4, 2006

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TABLE 5.4-1, page 19

Revise table as follows:

TABLE 5.4-1

U.S. UNITS

NUMBER OF ROWS OF TOP CHORD BRIDGING**

Refer to the K-Series Load Table and Specification Section 6 for required bolted diagonal bridging. Distances are Joist Span lengths in feet – See "Definition of Span" preceding Load Table.

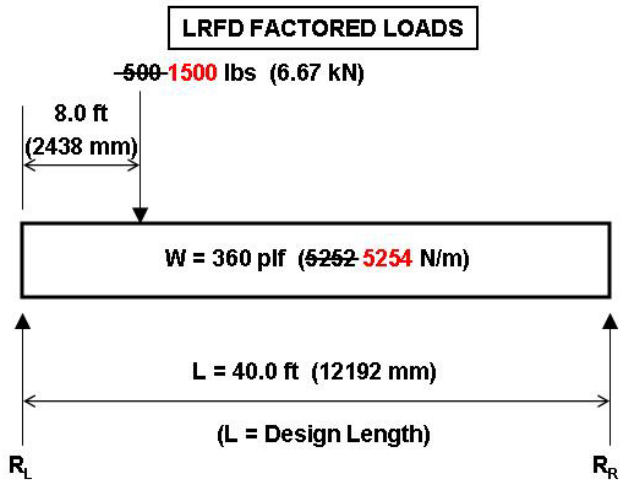
*Section Number	One Row	Two Rows	Three Rows	Four Rows	Five Rows
#1	Up thru 16	Over 16 thru 24	Over 24 thru 28		
#2	Up thru 17	Over 17 thru 25	Over 25 thru 32		
#3	Up thru 18	Over 18 thru 28	Over 28 thru 38	Over 38 thru ~~48~~ 40	
#4	Up thru 19	Over 19 thru 28	Over 28 thru 38	Over 38 thru 48	
#5	Up thru 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 38 thru 53	Over 53 thru 60	

*Last digit(s) of joist designation shown in Load Table
**See Section 5.11 for additional bridging required for uplift design.

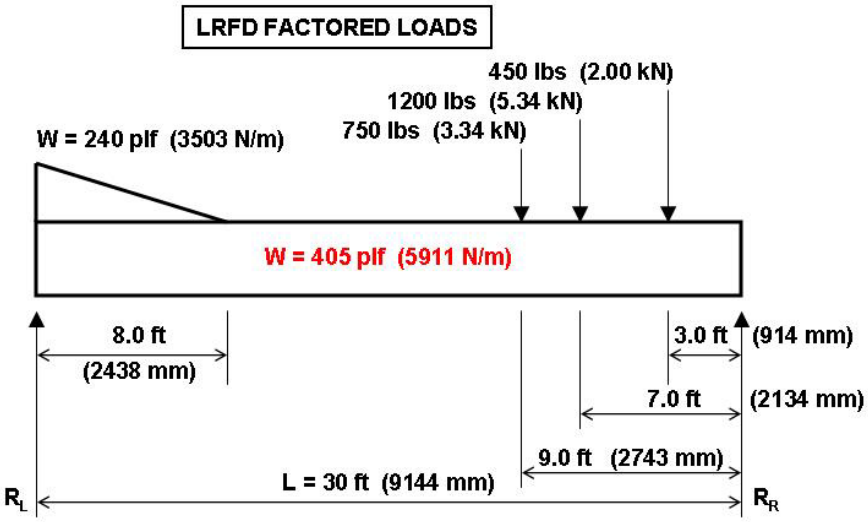
KCS JOISTS, pages 41, 42 and 43

LRFD EXAMPLES

EXAMPLE 1



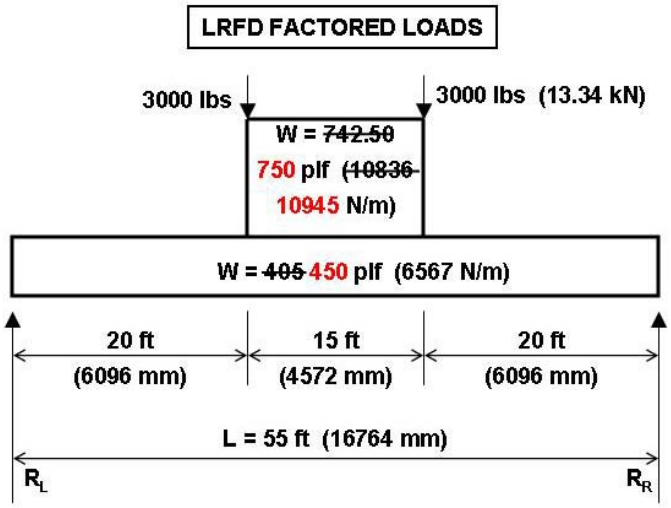
EXAMPLE 2



R = 8850 lbs (~~39.38~~ 39.3 kN)

Use 22K6 to determine bridging and stability requirements.
Since the maximum factored uniform load of ~~639~~ 645 plf (~~9318~~ 9413 N/m) (405 plf (5911 N/m + 240 plf (3503 N/m)) does not exceed the maximum KCS Joist uniform load of 825 plf (~~12040~~ 12030 N/m) and a standard KCS Joist can be selected from the load table, a load diagram is not required.

EXAMPLE 3



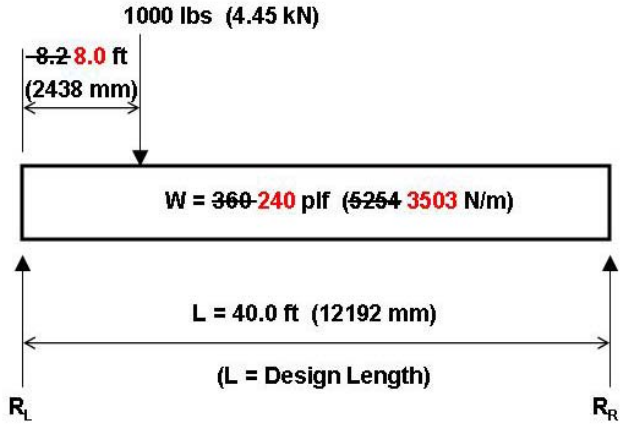
M = 4365 in.-kip (~~492.81~~ 493.2 kN-m)

OPTION A: Use double joists each having a minimum moment capacity M = 2183 in.-kip (246.65 kN-m) and shear capacity R = 10500 lbs (46.71 kN) and a uniform load of ~~594 plf (8669 N/m)~~ 600 plf (8756 N/m).

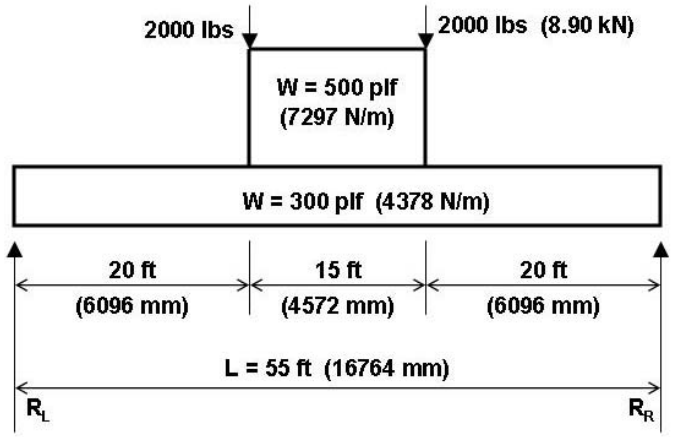
From the LH-Series LRFD Load Table select a 32LH13, W = 1035 plf (15.10 kN/m) for a 55 ft. (16764 mm) clear span.

ASD EXAMPLES

EXAMPLE 1



EXAMPLE 3 (No change to load diagram)



M = 2910 in.-kip (~~328.5~~ 328.8 kN-m)

OPTION A: Use double joists each having a minimum moment capacity M = 1455 in.-kip (~~164.3~~ 164.4 kN-m) and shear capacity R = 7000 lbs (31.14 kN) and a uniform load of 400 plf (5838 N/m).

From the LH-Series ASD Load Table select a 32LH13, W = 690 plf (10.06 kN/m) for a 55 ft. (16764 mm) clear span.

1003.3 MAXIMUM SLENDERNESS RATIOS, page 84

Top chord ~~end~~ interior panels ……90
Top chord end panels ……..……..120