

ACCESSORIES AND DETAILS

BRIDGING REQUIREMENTS FOR K-SERIES JOISTS						
Number of Rows of Bridging*** Distances are Span Lengths						
Section Numbers*	ERECTION STABILITY SPANS (SJI Spec. Section 6)		1 Row	2 Rows	3 Rows	4 Rows
	Depth	Span Less Than **				
#1	10 12 14	21' 23' 27'	Up Thru 17'	Over 17' thru 26'	Over 26' thru 28'	
#2	16	29'	Up thru 21'	Over 21' thru 30'	Over 30' thru 32'	
#3	12 14 16 18 20	25' 29' 30' 31' 32'	Up thru 18'	Over 18' thru 26'	Over 26' thru 40'	
#4	14 16 18 20 22 24	29' 32' 32' 34' 34' 36'	Up thru 20'	Over 20' thru 30'	Over 30' thru 41'	Over 41' thru 48'
#5	12 16 18 20 22 24 26	25' 32' 33' 34' 35' 38' 38'	Up thru 20'	Over 20' thru 30'	Over 30' thru 42'	Over 42' thru 48'
#6	14 16 18 20 22 24 26 28	29' 33' 35' 36' 36' 39' 39' 40'	Up thru 20'	Over 20' thru 31'	Over 31' thru 42'	Over 42' thru 48'
#7	16 18 20 22 24 26 28 30	33' 37' 39' 40' 43' 43' 43' 44'	Up thru 23'	Over 23' thru 34'	Over 34' thru 48'	
#8	24 26 28 30	43' 44' 44' 45'	Up thru 25'	Over 25' thru 39'	Over 39' thru 48'	
#9	16 18 20 22 24 26 28 30	33' 37' 39' 40' 44' 44' 45' 45'	Up thru 22'	Over 22' thru 34'	Over 34' thru 48'	
#10	18 20 22 24 26 28 30	37' 41' 45' 49' 49' 49' 50'	Up thru 22'	Over 22' thru 38'	Over 38' thru 48'	
#11	22 30	45' 52'	Up thru 24' Up thru 34'	Over 24' thru 39' Over 34' thru 49'	Over 39' thru 44' Over 49' thru 60'	
#12	24 26 28 30	49' 53' 53' 54'	Up thru 25' Up thru 29'	Over 25' thru 43' Over 29' thru 47'	Over 43' thru 48' Over 47' thru 60'	
* Last Digit (s) of joist designation. ** For spans EQUAL TO OR EXCEEDING that shown above, one of the required rows, nearest mid-span, must be diagonal type. Bolted diagonal bridgin shall be installed and connected BEFORE releasing the hoisting lines. Refer Specification Section 6 for handling and erection requirements. *** See SJI Specifications 5.11 for uplift requirements						

ACCESSORIES AND DETAILS

TABLE 2.7-1a							
K-SERIES JOISTS							
MAXIMUM JOIST SPACING FOR HORIZONTAL BRIDGING							
JOIST SECTION NUMBER*	Bridging Force P _{br}	BRIDGING MATERIAL SIZE					
		Equal Leg Angles					
		1 x 7/8 r = 0.20"	1-1/4 x 7/8 r = 0.25"	1-1/2 x 7/8 r = 0.30"	1-3/4 x 7/8 r = 0.35"	2 x 1/8 r = 0.40"	2-1/2 x 5/32 r = 0.50"
	lbs.	ft.-in.	ft.-in.	ft.-in.	ft.-in.	ft.-in.	ft.-in.
1 to 8, Incl.	340	5'- 0"	6'- 3"	7'- 6"	8'- 7"	10'- 0"	12'- 6"
9 to 10, Incl.	450	4'- 4"	6'- 1"	7'- 6"	8'- 7"	10'- 0"	12'- 6"
11 to 12, Incl.	560	3'- 11"	5'- 6"	7'- 3"	8'- 7"	10'- 0"	12'- 6"
*Refer to last digit(s) of Joist Designation							
**Connection to joist shall resist a nominal unfactored 700 pound force (3114 N)							

TABLE 2.7-2								
K, LH, and DLH SERIES JOISTS								
MAXIMUM JOIST SPACING FOR DIAGONAL BRIDGING								
JOIST DEPTH	BRIDGING ANGLE SIZE – (EQUAL LEG ANGLE)							
	1 x 7/8 r = 0.20"	1-1/4 x 7/8 r = 0.25"	1-1/2 x 7/8 r = 0.30"	1-3/4 x 7/8 r = 0.35"	2 x 1/8 r = 0.40"	2 1/2 x 5/32 r = 0.50"	3 x 3/16 r = 0.60"	3 1/2 x 1/4 r = 0.70"
in.	ft.- in.	ft.- in.	ft.- in.	ft.- in.	ft.- in.	ft.- in.	ft.- in.	ft.- in.
12"	6'-7"	8'-3"	9'-11"	11'-7"	13'-3"	16'-7"	19'-11"	23'-3"
14"	6'-6"	8'-3"	9'-11"	11'-7"	13'-3"	16'-7"	19'-11"	23'-3"
16"	6'-6"	8'-2"	9'-10"	11'-7"	13'-3"	16'-7"	19'-11"	23'-3"
18"	6'-6"	8'-2"	9'-10"	11'-6"	13'-3"	16'-7"	19'-11"	23'-3"
20"	6'-5"	8'-2"	9'-10"	11'-6"	13'-2"	16'-7"	19'-11"	23'-3"
22"	6'-4"	8'-1"	9'-10"	11'-6"	13'-2"	16'-6"	19'-11"	23'-3"
24"	6'-4"	8'-1"	9'-9"	11'-5"	13'-2"	16'-6"	19'-10"	23'-3"
26"	6'-3"	8'-0"	9'-9"	11'-5"	13'-1"	16'-6"	19'-10"	23'-2"
28"	6'-3"	8'-0"	9'-8"	11'-5"	13'-1"	16'-6"	19'-10"	23'-2"
30"	6'-2"	7'-11"	9'-8"	11'-4"	13'-1"	16'-5"	19'-10"	23'-2"
32"	6'-1"	7'-10"	9'-7"	11'-4"	13'-0"	16'-5"	19'-9"	23'-2"
36"	5'-11"	7'-9"	9'-6"	11'-3"	12'-11"	16'-4"	19'-9"	23'-1"
40"	5'-9"	7'-7"	9'-5"	11'-2"	12'-10"	16'-4"	19'-8"	23'-1"
44"	5'-6"	7'-5"	9'-3"	11'-0"	12'-9"	16'-3"	19'-7"	23'-0"
48"	5'-4"	7'-3"	9'-2"	10'-11"	12'-8"	16'-2"	19'-7"	22'-11"
52"	5'-0"	7'-1"	9'-0"	10'-10"	12'-7"	16'-1"	19'-6"	22'-11"
56"	4'-9"	6'-10"	8'-10"	10'-8"	12'-5"	16'-0"	19'-5"	22'-10"
60"	4'-4"	6'-8"	8'-7"	10'-6"	12'-4"	15'-10"	19'-4"	22'-9"
64"	**	6'-4"	8'-5"	10'-4"	12'-2"	15'-9"	19'-3"	22'-8"
68"	**	6'-1"	8'-2"	10'-2"	12'-0"	15'-8"	19'-2"	22'-7"
72"	**	5'-9"	8'-0"	10'-0"	11'-10"	15'-6"	19'-1"	22'-6"
80"	**	5'-0"	7'-5"	9'-6"	11'-6"	15'-3"	18'-10"	22'-4"
88"		**	6'-9"	9'-0"	11'-1"	14'-11"	18'-7"	22'-1"
96"		**	6'-0"	8'-5"	10'-8"	14'-7"	18'-4"	21'-11"
104"			**	7'-9"	10'-1"	14'-2"	18'-0"	21'-8"
112"			**	7'-0"	9'-6"	13'-9"	17'-8"	21'-4"
120"				**	8'-9"	13'-4"	17'-3"	21'-1"
**INTERPOLATION BELOW THE MINIMUM VALUES SHOWN IS NOT ALLOWED.								
SEE TABLE 2.7-3 FOR MINIMUM JOIST SPACE FOR DIAGONAL ONLY BRIDGING.								

