

PKjoists[®]

by PinkWood LTD.

U.S. SPECIFIERS
GUIDE

LVL FLANGE



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ABOUT Pinkwood LTD.

Founded in 2009, PinkWood Ltd. operates as a privately owned I-joist manufacturing business with head office and production facility located in Calgary Alberta, Canada.

With a corporate culture and commitment to innovation, creativity, and lean manufacturing principles, PinkWood Ltd. has proven to be the most agile I-joist producer in North America. Total customer satisfaction is what defines us and drives us every day.

ABOUT PKjoist

PKjoists use proprietary grade LVL flanges and come in several series with residential joist depths of 9 1/2" thru 16" and commercial joists depths of 18" thru 20". With two 1 3/8" thick Flange Series (PKI 60L, 70L) and two 1 3/8" thick Flange Series (PKI 80L, 90L), the PKjoist can handle all your LVL Flange I-joist needs.

All PKjoists are shipped with a pink, wax based, moisture sealer to protect the I-joists against moisture related end-checking and absorption. Below is the list of all PKjoists' Series
PKI 60L, 70L, 80L, and 90L series.

PKjoist PRODUCT PROFILES



SERIES:

Depths:
Flange Size:
Webstock:

PKI 60L

9 1/2" thru 16"
1 3/8" x 2"
3/8" OSB

PKI 70L

9 1/2" thru 16"
1 3/8" x 2 5/16"
3/8" OSB

PKI 80L

9 1/2" thru 20"
1 3/8" x 2 5/16"
3/8" OSB

PKI 90L

9 1/2" thru 20"
1 3/8" x 3 1/2"
3/8" OSB (7/16" for 18"-20")

PKjoist PRODUCT DESIGN PROPERTIES

Joist Series	Joist Type	Joist Depth (inches)	Bending Stiffness EI (x10 ⁶ lbf-in. ²)	Allowable Moment, M ⁽²⁾ (lbf-ft)	Shear (lbf)	Shear Deflection Coefficient K ⁽³⁾ (x10 ⁶ lbf)
PKI 60L	PKI 60L-10	9 ½	194	3300	1580	4.94
	PKI 60L-12	11 ⅞	323	4235	1800	6.18
	PKI 60L-14	14	470	5020	1950	7.28
	PKI 60L-16	16	635	5730	2195	8.32
PKI 70L	PKI 70L-10	9 ½	221	3750	1580	4.94
	PKI 70L-12	11 ⅞	370	4810	1800	6.18
	PKI 70L-14	14	540	5700	1950	7.28
	PKI 70L-16	16	730	6510	2195	8.32
PKI 80L	PKI 80L-10	9 ½	265	4815	1600	4.94
	PKI 80L-12	11 ⅞	450	6235	1800	6.18
	PKI 80L-14	14	660	7440	1975	7.28
	PKI 80L-16	16	895	8520	2200	8.32
	PKI 80L-18	18	1170	9590	2450	9.36
	PKI 80L-20	20	1475	10650	2700	10.40
PKI 90L	PKI 90L-10	9 ½	400	7370	1700	4.94
	PKI 90L-12	11 ⅞	675	9550	2175	6.18
	PKI 90L-14	14	980	11390	2400	7.28
	PKI 90L-16	16	1330	13050	2750	8.32
	PKI 90L-18	18	1730	14690	3050	9.36
	PKI 90L-20	20	2190	16310	3360	10.40

For S.I.: 1 inch = 25.4 mm; 1 lbf = 4.4 N

Notes to Table:

- 1. The tabulated values are ASD design values for normal duration of load (CD = 1.0). All values, except for EI, K, and VLC shall be permitted to be adjusted for other load durations as permitted by the ANSI/AWC National Design Specification (NDS) Section 2.3.2.
- 2. For calculating the maximum (center of span) uniform load and center point load deflections of an I-joist in a simple-span application, Equations 1 and 2 shall be used.

Uniform Load: $\delta = \frac{5w\ell^4}{384EI} + \frac{w\ell^2}{K}$ [Eq. 1]

Center-Point Load: $\delta = \frac{P\ell^3}{48EI} + \frac{2P\ell}{K}$ [Eq. 2]

Where:

- δ = calculated deflection (in.)
- w = uniform load (lbf/in.)
- P = concentrated load (lbf)
- ℓ = design span (in.)
- EI = bending stiffness (lbf-in.²)
- K = coefficient of shear deflection (lbf)

PKjoist PRODUCT REACTION CAPACITIES

Joist Series	Joist Type	Joist Depth (inches)	End Reaction (lbf)				Intermediate Reaction (lbf)				Flange Bearing Capacities lbf/in)
			1 ½" or 2 ½" Bearing ⁽⁴⁾		3 ½" or 4" Bearing ⁽⁵⁾		3 ½" Bearing		5 ½" Bearing		
			Web Stiff.		Web Stiff.		Web Stiff.		Web Stiff.		
			No	Yes	No	Yes	No	Yes	No	Yes	
PKI 60L	PKI 60L-10	9½	1175	1400	1400	1450	2300	2650	2850	2900	1600
	PKI 60L-12	11⅞	1175	1450	1500	1700	2400	2850	3000	3200	1600
	PKI 60L-14	14	1175	1550	1550	1900	2490	3085	3065	3400	1600
	PKI 60L-16	16	1175	1650	1550	1990	2570	3250	3090	3550	1600
PKI 70L	PKI 70L-10	9½	1175	1400	1400	1450	2410	2650	2950	3400	1850
	PKI 70L-12	11⅞	1175	1450	1500	1700	2500	2850	3050	3450	1850
	PKI 70L-14	14	1175	1550	1550	1900	2600	3150	3100	3500	1850
	PKI 70L-16	16	1175	1650	1550	1990	2650	3350	3150	3550	1850
PKI 80L	PKI 80L-10	9½	1200	1550	1525	1600	2675	3200	3150	3300	1830
	PKI 80L-12	11⅞	1200	1700	1525	1800	2675	3400	3250	3450	1830
	PKI 80L-14	14	1200	1800	1525	2000	2675	3600	3300	3900	1830
	PKI 80L-16	16	1200	1900	1525	2150	2675	3800	3325	4300	1830
	PKI 80L-18	18	1200	2000	1525	2300	2675	4000	3350	4650	1830
	PKI 80L-20	20	1200	2200	1525	2450	2675	4200	3375	4900	1830
PKI 90L	PKI 90L-10	9½	1300	1550	1900	1725	3400	3400	3525	3600	2770
	PKI 90L-12	11⅞	1300	1850	1900	2100	3500	3700	4200	4500	2770
	PKI 90L-14	14	1300	2000	1900	2450	3600	4000	4200	4700	2770
	PKI 90L-16	16	1300	2200	1900	2750	3600	4300	4200	4900	2770
	PKI 90L-18	18	1300	2400	1900	3000	3600	4600	4200	5100	2770
	PKI 90L-20	20	1300	2600	1900	3000	3600	4900	4200	5300	2770

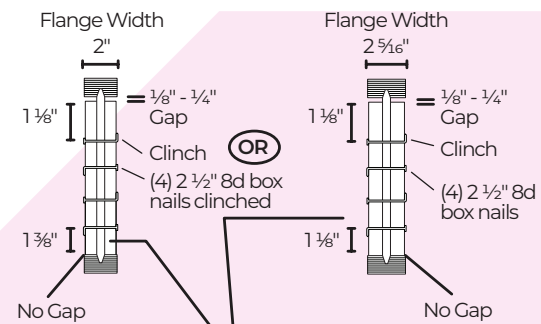
For S.I.: 1 inch = 25.4 mm; 1 lbf = 4.4 N

Notes to Table:

1. Reaction capacity shall be limited by the flange bearing capacity or the bearing capacity of the support material, whichever is less. The flange bearing capacity, per inch of bearing length, is based on the allowable compression perpendicular-to-grain of the I-joist flange, accounting for eased edges.
2. Reaction capacity is for normal duration of load and shall be permitted to be adjusted for other load durations provided that the adjusted reaction capacity is not greater than the flange bearing capacity or the bearing capacity of the support material, which shall not be increased for any load durations.
3. Reaction capacity shall be permitted to be increased over that tabulated for the minimum bearing length by linear interpolation of the reaction capacity between the minimum and maximum bearing lengths. Extrapolation beyond the minimum and maximum bearing lengths is beyond the scope of this table.

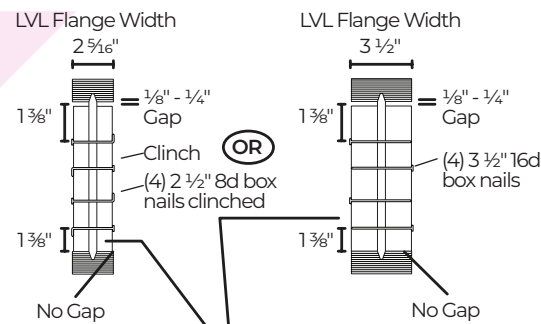


PKjoist WEB STIFFENER INFO



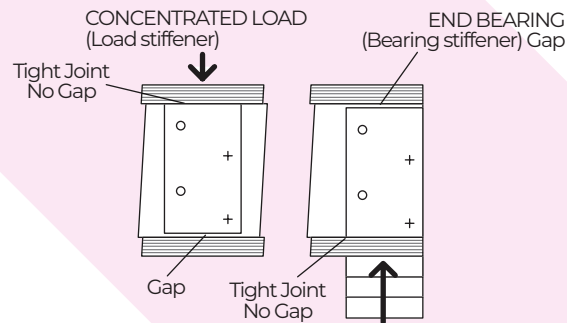
See table for web stiffener size requirements

Refer to Table 4 of IAPMO UES ER-431



See table for web stiffener size requirements

Refer to Table 4 of IAPMO UES ER-431



Minimum Web Stiffener Width	2" Wide Flange	2 5/16" Wide Flange	2 5/16" Wide Flange	3 1/2" Wide Flange
	3/8" Thick Web			
	Minimum Web Stiffener Thickness			
	3/4"	7/8"	7/8"	1"
	Minimum Nail Size			
	8d Box (2 1/2" x 0.113")	8d Box (2 1/2" x 0.113")	8d Box (2 1/2" x 0.113")	16d Box (3 1/2" x 0.135")
Total Nails Required				
2 5/16"	4	4	4	4

PKI Flange Width	Flange Thickness	Web Stiffener Size Each Side of Web
2"	1 3/8"	3/4" x 2 5/16" min. width
2 5/16"	1 3/8"	7/8" x 2 5/16" min. width
2 5/16"	1 3/8"	7/8" x 2 5/16" min. width
3 1/2"	1 3/8"	1 1/2" x 2 5/16" min. width

HOLE IN JOIST WEB

PKjoist WEB HOLES - RULES AND ALLOWABLE LOCATIONS:

When web holes are required in PKjoists, the following equation can be used to determine allowable size and location.

HOLE SHEAR EQUATIONS

The reduced shear capacity at the location of a hole in an I-Joist is calculated as follows:

Round Holes, Other Hole Shapes, and Clustered Small Holes that may be circumscribed by a round hole:

$$V_{\text{hole}} = V_r (D - \emptyset) / D$$

Where: V_r = I-Joist shear capacity (with and without web stiffeners, same value)

D = Depth of I-Joist (inches)

$\emptyset$ = Hole Diameter (inches)

And $\emptyset_{\text{max}} = D - 2(t_{\text{flange}}) - 0.25$

Where:

t_{flange} = I-Joist flange thickness (inches)

Square, Rectangular, Oblong, and Clustered Small Holes that may not be circumscribed by a round hole:

$$V_{\text{hole}} = V_r (D - \frac{4}{3}(h_{\text{hole,max}})) / D$$

Where: V_r = I-Joist shear capacity (with and without web stiffeners, same value)

$h_{\text{hole,max}}$ = max hole height = $0.75(D - 2(t_{\text{flange}}) - 0.25)$

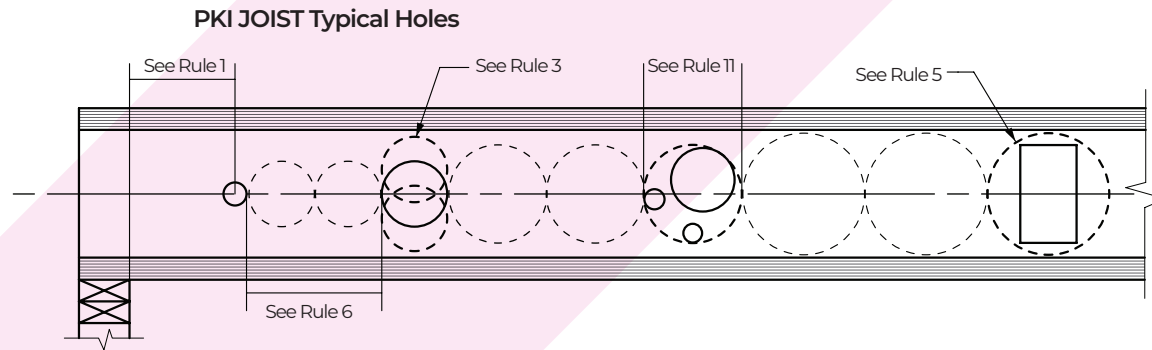
And $W_{\text{hole,max}}$ = max hole width with

- 24" max for PKI 35-PLUS, PKI 40 and PKI 50

- 20" max for PKI 10, PKI 20 and PKI 23

t_{flange} = I-Joist flange thickness (inches)

ALLOWABLE HOLES IN WEB - Size and spacing



One of the benefits of using I-joists in residential construction is that holes may be cut in the joist webs to accommodate electrical wiring, plumbing lines and other mechanical systems, thereby minimizing the depth of the floor system.

Rules for cutting holes in PKjoists

1. The distance between the inside edge of the support and the centerline of any hole shall be in compliance with the requirements of Table 10 in IAPMO UES ER-431.
2. I-joist top and bottom flange should NEVER be cut, notched or otherwise modified.
3. Whenever possible, field-cut holes should be centered in the middle of the web.
4. The maximum size hole that can be cut into an I-joist web shall equal the clear distance between the flanges of the I-joist minus $\frac{1}{4}$ ". A minimum of $\frac{1}{8}$ " should always be maintained between the top or bottom of the hole and the adjacent I-joist flange.
5. Square and rectangular holes are permitted in the joist web. See the provided charts for location allowances.
6. Where more than one hole is necessary, the distance between adjacent hole edges shall exceed twice the diameter of the largest round hole or twice the size of the largest square hole (or twice the length of the longest side of the longest rectangular hole) and each hole must be sized and located in compliance with the requirements of Table 12 in IAPMO UES ER-431.
7. Holes measuring $1\frac{1}{2}$ " or smaller shall be permitted anywhere in a cantilevered section of a PKI-joist. Holes of a greater size may be permitted subject to verification.
8. A $1\frac{1}{2}$ " hole or smaller can be placed anywhere in the web provided that it meets the requirements of rule number 6 above.
9. All holes shall be cut in a workman-like manner in accordance with the restrictions listed above and as illustrated in the above image.
10. Limit three maximum-size holes per span.
11. A group of round holes at approximately the same location shall be permitted if they meet the requirements for a single round hole circumscribed around them.

PKjoist **PKI 60L** ALLOWABLE HOLE LOCATIONS - See IAPMO UES ER-431

Series	Depth	Clear Span	O.C. Spacing	Simple Span for Live Loads up to 40 psf and Dead Loads up to 25 psf									
				Minimum Distance from Inside Face of Bearing to Center of Hole									
				Round and Clustered Round Hole Size (inches)					Square or Rectangular Hole Size (inches)				
				4	7	9 ¾	11 ½	13 ½	4	7	9 ¾	11 ½	13 ½
PKI 60L	9 ½"	8'	24"	1'-0"	1'-0"				1'-0"	2'-0"			
		10'		1'-0"	1'-7"				1'-0"	3'-1"			
		12'		1'-0"	3'-9"				1'-0"	4'-3"			
		14'		1'-0"	3'-11"				1'-7"	5'-6"			
		16'	19.2"	1'-0"	4'-1"				1'-3"	5'-10"			
		17'	16"	1'-0"	3'-8"				1'-0"	5'-10"			
		18'	12"	1'-0"	2'-5"				1'-0"	5'-1"			
	11 ⅞"	8'	24"	1'-0"	1'-0"	1'-0"			1'-0"	1'-1"	2'-4"		
		10'		1'-0"	1'-0"	1'-11"			1'-0"	2'-2"	3'-6"		
		12'		1'-0"	1'-0"	3'-1"			1'-0"	3'-4"	4'-8"		
		14'		1'-0"	1'-1"	4'-3"			1'-0"	4'-6"	5'-10"		
		16'	19.2"	1'-0"	2'-2"	5'-5"			1'-0"	5'-8"	7'-0"		
		18'	16"	1'-0"	1'-8"	5'-8"			1'-0"	5'-10"	7'-7"		
		20'	12"	1'-0"	1'-2"	5'-11"			1'-0"	6'-1"	8'-1"		
		21'	12"	1'-0"	1'-0"	4'-9"			1'-0"	4'-11"	7'-5"		
	14"	8'	24"	1'-0"	1'-0"	1'-0"	1'-1"		1'-0"	1'-0"	2'-3"	2'-8"	
		10'		1'-0"	1'-0"	1'-0"	2'-3"		1'-0"	1'-0"	3'-5"	3'-9"	
		12'		1'-0"	1'-0"	1'-0"	3'-4"		1'-0"	1'-0"	4'-7"	5'-0"	
		14'		1'-0"	1'-0"	1'-10"	4'-6"		1'-0"	2'-1"	5'-10"	6'-2"	
		16'	19.2"	1'-0"	1'-0"	2'-11"	5'-8"		1'-0"	3'-2"	7'-0"	7'-4"	
		18'	16"	1'-0"	1'-0"	4'-1"	6'-11"		1'-0"	4'-4"	8'-3"	8'-7"	
		20'	12"	1'-0"	1'-0"	3'-9"	7'-2"		1'-0"	4'-0"	8'-9"	9'-2"	
		22'	12"	1'-0"	1'-0"	3'-5"	7'-6"		1'-0"	3'-8"	9'-3"	9'-9"	
	16"	24'	24"	1'-0"	1'-0"	1'-10"	7'-0"		1'-0"	2'-0"	9'-2"	9'-9"	
		10'		1'-0"	1'-0"	1'-0"	1'-0"	2'-3"	1'-0"	1'-0"	1'-6"	3'-9"	4'-1"
		12'		1'-0"	1'-0"	1'-0"	1'-0"	3'-5"	1'-0"	1'-0"	2'-7"	5'-0"	5'-3"
		14'		1'-0"	1'-0"	1'-0"	2'-1"	4'-7"	1'-0"	1'-0"	3'-8"	6'-2"	6'-6"
		16'	19.2"	1'-0"	1'-0"	1'-0"	3'-2"	5'-9"	1'-0"	1'-0"	4'-10"	7'-4"	7'-8"
		18'	16"	1'-0"	1'-0"	1'-0"	4'-4"	6'-10"	1'-0"	2'-0"	6'-0"	8'-7"	
		19'	12"	1'-0"	1'-0"	1'-6"	4'-11"	7'-7"	1'-0"	2'-7"	6'-7"	9'-2"	
		21'	12"	1'-0"	1'-0"	1'-0"	4'-7"	7'-10"	1'-0"	1'-9"	6'-7"	9'-9"	10'-2"
		23'	16"	1'-0"	1'-0"	1'-0"	4'-4"	8'-2"	1'-0"	1'-0"	6'-7"	10'-4"	10'-10"
		24'	12"	1'-0"	1'-0"	1'-0"	2'-3"	7'-1"	1'-0"	1'-0"	5'-0"	9'-9"	10'-3"
		26'		1'-0"	1'-0"	1'-0"	3'-4"	8'-3"	1'-0"	1'-0"	6'-1"	10'-11"	11'-6"
		27'		1'-0"	1'-0"	1'-0"	3'-11"	8'-11"	1'-0"	1'-0"	6'-8"	11'-7"	12'-1"

PKjoist **PKI 70L** ALLOWABLE HOLE LOCATIONS - See IAPMO UES ER-431

Series	Depth	Clear Span	O.C. Spacing	Simple Span for Live Loads up to 40 psf and Dead Loads up to 25 psf										
				Minimum Distance from Inside Face of Bearing to Center of Hole										
				Round and Clustered Round Hole Size (inches)					Square or Rectangular Hole Size (inches)					
				4	7	9 ¾	11 ½	13 ½	4	7	9 ¾	11 ½	13 ½	
PKI 70L	9 ½"	8'	24"	1'-0"	1'-0"				1'-0"	1'-5"				
		10'		1'-0"	1'-7"				1'-0"	2'-6"				
		12'		1'-0"	2'-9"				1'-0"	3'-8"				
		14'		1'-0"	3'-11"				1'-7"	4'-10"				
		16'	19.2"	1'-0"	4'-1"				1'-3"	5'-2"				
		17'	16"	1'-0"	3'-8"				1'-0"	4'-11"				
		19'	12"	1'-0"	3'-0"				1'-0"	4'-5"				
	11 7/8"	8'	24"	1'-0"	1'-0"	1'-0"			1'-0"	1'-1"	1'-9"			
		10'		1'-0"	1'-0"	1'-11"			1'-0"	2'-2"	2'-10"			
		12'		1'-0"	1'-0"	3'-1"			1'-0"	3'-4"	4'-0"			
		14'		1'-0"	1'-1"	4'-3"			1'-0"	4'-6"	5'-2"			
		16'	19.2"	1'-0"	2'-2"	5'-5"			1'-0"	5'-8"	6'-4"			
		18'		1'-0"	1'-8"	5'-8"			1'-0"	5'-10"	6'-9"			
		20'		1'-0"	1'-2"	5'-11"			1'-0"	6'-1"	7'-1"			
	14"	22'	12"	1'-0"	1'-0"	5'-4"			1'-0"	5'-6"	6'-9"			
		8'	24"	1'-0"	1'-0"	1'-0"	1'-1"		1'-0"	1'-0"	1'-9"	2'-0"		
		10'		1'-0"	1'-0"	1'-0"	2'-3"		1'-0"	1'-0"	2'-10"	3'-2"		
		12'		1'-0"	1'-0"	1'-0"	3'-4"		1'-0"	1'-0"	4'-0"	4'-4"		
		14'		1'-0"	1'-0"	1'-10"	4'-6"		1'-0"	2'-1"	5'-2"	5'-6"		
		16'	19.2"	1'-0"	1'-0"	2'-11"	5'-8"		1'-0"	3'-2"	6'-4"	6'-8"		
		18'		1'-0"	1'-0"	4'-1"	6'-11"		1'-0"	4'-4"	7'-7"	7'-11"		
		19'		1'-0"	1'-0"	4'-8"	7'-6"		1'-0"	4'-10"	8'-2"	8'-6"		
	16"	21'	16"	1'-0"	1'-0"	4'-4"	7'-11"		1'-0"	4'-6"	8'-6"	8'-11"		
		23'	12"	1'-0"	1'-0"	4'-0"	8'-1"		1'-0"	4'-3"	8'-11"	9'-4"		
		25'		1'-0"	1'-0"	2'-4"	7'-7"		1'-0"	2'-7"	8'-6"	9'-1"		
		10'	24"	1'-0"	1'-0"	1'-0"	1'-0"	2'-3"	1'-0"	1'-0"	1'-6"	3'-2"	3'-6"	
		12'		1'-0"	1'-0"	1'-0"	1'-0"	3'-5"	1'-0"	1'-0"	2'-7"	4'-4"	4'-8"	
		14'		1'-0"	1'-0"	1'-0"	2'-1"	4'-7"	1'-0"	1'-0"	3'-8"	5'-6"	5'-10"	
		16'		1'-0"	1'-0"	1'-0"	3'-2"	5'-9"	1'-0"	1'-0"	4'-10"	6'-8"	7'-0"	
		18'	19.2"	1'-0"	1'-0"	1'-9"	4'-4"	6'-10"	1'-0"	2'-0"	6'-0"	7'-11"	8'-3"	
		20'		1'-0"	1'-0"	2'-10"	5'-5"	8'-2"	1'-0"	3'-1"	7'-2"	9'-1"	9'-5"	
		22'		1'-0"	1'-0"	2'-0"	5'-2"	8'-6"	1'-0"	2'-3"	7'-2"	9'-6"	9'-11"	
	16"	24'	12"	1'-0"	1'-0"	1'-3"	4'-10"	8'-9"	1'-0"	1'-5"	7'-2"	9'-11"	10'-5"	
		25'		1'-0"	1'-0"	1'-9"	5'-6"	9'-5"	1'-0"	2'-0"	7'-9"	10'-7"	11'-0"	
		26'	12"	1'-0"	1'-0"	1'-0"	3'-4"	8'-3"	1'-0"	1'-0"	6'-1"	9'-8"	10'-2"	
		28'		1'-0"	1'-0"	1'-0"	4'-5"	9'-5"	1'-0"	1'-0"	7'-3"	10'-10"	11'-5"	

PKjoist PKI 80L ALLOWABLE HOLE LOCATIONS - See IAPMO UES ER-431

Series	Depth	Clear Span	O.C. Spacing	Simple Span for Live Loads up to 40 psf and Dead Loads up to 25 psf										
				Minimum Distance from Inside Face of Bearing to Center of Hole										
				Round and Clustered Round Hole Size (inches)					Square or Rectangular Hole Size (inches)					
				4	6½	8 ⅞	11	13	4	6½	8 ⅞	11	13	
PKI 80L	9 ½"	8'	24"	1'-0"	1'-0"				1'-0"	1'-4"				
		10'		1'-0"	1'-0"				1'-0"	2'-5"				
		12'		1'-0"	1'-11"				1'-0"	3'-7"				
		14'		1'-0"	3'-1"				1'-6"	4'-9"				
		16'		1'-0"	4'-2"				2'-7"	5'-11"				
		17'	19.2"	1'-0"	3'-7"				1'-8"	5'-8"				
		18'	16"	1'-0"	3'-1"				1'-0"	5'-4"				
		19'	12"	1'-0"	1'-6"				1'-0"	4'-4"				
		20'		1'-0"	2'-0"				1'-0"	4'-10"				
	11 ⅞"	8'	24"	1'-0"	1'-0"	1'-0"			1'-0"	1'-0"	1'-8"			
		10'		1'-0"	1'-0"	1'-3"			1'-0"	1'-4"	2'-9"			
		12'		1'-0"	1'-0"	2'-5"			1'-0"	2'-5"	3'-11"			
		14'		1'-0"	1'-0"	3'-6"			1'-0"	3'-6"	5'-1"			
		16'		1'-0"	1'-6"	4'-8"			1'-0"	4'-8"	6'-3"			
		18'		1'-0"	2'-7"	5'-10"			1'-3"	5'-10"	7'-6"			
		19'		1'-0"	3'-1"	6'-5"			1'-10"	6'-5"	8'-1"			
		20'	19.2"	1'-0"	1'-11"	5'-11"			1'-0"	5'-10"	7'-10"			
	14"	22'	16"	1'-0"	1'-4"	6'-0"			1'-0"	5'-10"				
		24'	12"	1'-0"	1'-0"	5'-1"			1'-0"	4'-9"	8'-7"			
		8'	24"	1'-0"	1'-0"	1'-0"	1'-0"		1'-0"	1'-0"	1'-8"	1'-11"		
		10'		1'-0"	1'-0"	1'-0"	1'-7"		1'-0"	1'-0"	2'-9"	3'-1"		
		12'		1'-0"	1'-0"	1'-0"	2'-8"		1'-0"	1'-0"	3'-11"	4'-3"		
		14'		1'-0"	1'-0"	1'-2"	3'-10"		1'-0"	1'-3"	5'-1"	5'-5"		
		16'		1'-0"	1'-0"	2'-3"	5'-0"		1'-0"	2'-3"	6'-3"	6'-7"		
		18'		1'-0"	1'-0"	3'-4"	6'-2"		1'-0"	3'-5"	7'-6"	7'-10"		
	16"	20'	24"	1'-0"	1'-7"	4'-6"	7'-4"		1'-0"	4'-6"	8'-8"	9'-0"		
		21'		1'-0"	2'-2"	5'-1"	7'-11"		1'-0"	5'-1"	9'-3"	9'-8"		
		23'	19.2"	1'-0"	1'-1"	4'-7"	8'-1"		1'-0"	4'-6"	9'-8"	10'-0"		
		24'	16"	1'-0"	1'-0"	3'-6"	7'-7"		1'-0"	3'-5"	9'-5"	9'-10"		
		26'	12"	1'-0"	1'-0"	1'-7"	6'-9"		1'-0"	1'-5"	8'-11"	9'-6"		
		27'		1'-0"	1'-0"	2'-2"	7'-4"		1'-0"	1'-11"	9'-6"	10'-1"		
		10'	24"	1'-0"	1'-0"	1'-0"	1'-0"	1'-8"	1'-0"	1'-0"	1'-0"	3'-1"	3'-5"	
		12'		1'-0"	1'-0"	1'-0"	1'-0"	2'-9"	1'-0"	1'-0"	1'-9"	4'-3"	4'-7"	
		14'		1'-0"	1'-0"	1'-0"	1'-6"	3'-11"	1'-0"	1'-0"	2'-10"	5'-5"	5'-9"	
		16'		1'-0"	1'-0"	1'-0"	2'-7"	5'-1"	1'-0"	1'-0"	3'-11"	6'-7"	6'-11"	
		18'	24"	1'-0"	1'-0"	1'-2"	3'-8"	6'-3"	1'-0"	1'-3"	5'-1"	7'-10"	8'-2"	
		20'		1'-0"	1'-0"	2'-3"	4'-10"	7'-5"	1'-0"	2'-4"	6'-3"	9'-0"	9'-4"	
		22'		1'-0"	1'-0"	3'-4"	5'-11"	8'-8"	1'-0"	3'-4"	7'-5"	10'-3"	10'-7"	
		23'		1'-0"	1'-2"	3'-11"	6'-6"	9'-3"	1'-0"	3'-11"	8'-0"	10'-10"	11'-2"	
		25'	19.2"	1'-0"	1'-0"	2'-11"	6'-1"	9'-4"	1'-0"	2'-10"	7'-9"	11'-3"	11'-8"	
		26'		1'-0"	1'-0"	3'-5"	6'-8"	10'-0"	1'-0"	3'-5"				
		27'	16"	1'-0"	1'-0"	1'-11"	5'-8"	9'-6"	1'-0"	1'-10"	7'-7"	11'-8"	12'-1"	
		29'		1'-0"	1'-0"	1'-0"	3'-9"	8'-8"	1'-0"	1'-0"	6'-1"	11'-3"	11'-10"	
		30'	12"	1'-0"	1'-0"	1'-0"	4'-4"	9'-3"	1'-0"	1'-0"	6'-8"	11'-11"	12'-5"	

PKjoist
 PKI 80L
 ALLOWABLE HOLE LOCATIONS
 - See IAPMO UES ER-431

Series	Depth	Clear Span	O.C. Spacing	Simple Span for Live Loads up to 40 psf and Dead Loads up to 25 psf										
				Minimum Distance from Inside Face of Bearing to Center of Hole										
				Round and Clustered Round Hole Size (inches)					Square or Rectangular Hole Size (inches)					
				4	6½	8 ⅞	11	13	4	6½	8 ⅞	11	13	
PKI 80L	18"	12'	24"	1'-0"	1'-0"	1'-1"	2'-10"		1'-0"	2'-10"	4'-7"	4'-10"		
		14'		1'-0"	1'-0"	1'-7"	3'-11"		1'-0"	4'-0"	5'-9"	6'-1"		
		16'		1'-0"	1'-0"	2'-8"	5'-1"		1'-10"	5'-2"	6'-11"	7'-3"		
		18'		1'-0"	1'-5"	3'-9"	6'-4"		2'-11"	6'-4"	8'-2"	8'-6"		
		20'		1'-0"	2'-6"	4'-10"	7'-6"		4'-0"	7'-6"	9'-4"	9'-8"		
		22'		1'-4"	3'-7"	6'-0"	8'-8"		5'-2"	8'-8"	10'-7"			
		24'		2'-4"	4'-8"	7'-2"	9'-10"		6'-3"	9'-10"				
		26'	19.2"	1'-0"	3'-9"	6'-9"	10'-0"		5'-7"	9'-11"	12'-3"	12'-8"		
		27'		1'-5"	4'-3"	7'-4"	10'-7"		6'-1"	10'-6"	12'-10"	13'-3"		
		29'	16"	1'-0"	3'-4"	6'-10"	10'-9"		5'-5"	10'-7"	13'-4"	13'-9"		
		30'		1'-0"	3'-10"	7'-5"	11'-4"		6'-0"					
		31'	12"	1'-0"	1'-0"	5'-0"	9'-11"		3'-1"	9'-6"	13'-0"	13'-7"		
		32'		1'-0"	1'-0"	5'-6"	10'-6"		3'-7"	10'-1"	13'-8"	14'-2"		
	20"	14'	24"	1'-0"	1'-0"	1'-1"	1'-7"	4'-0"	1'-0"	1'-8"	5'-9"	6'-1"	6'-5"	
		16'		1'-0"	1'-0"	1'-1"	2'-8"	5'-2"	1'-0"	2'-9"	6'-11"	7'-3"	7'-7"	
		18'		1'-0"	1'-0"	1'-6"	3'-9"	6'-4"	1'-0"	3'-10"	8'-2"	8'-6"		
		20'		1'-0"	1'-0"	2'-7"	4'-11"	7'-6"	1'-10"	5'-0"	9'-4"	9'-8"		
		22'		1'-0"	1'-5"	3'-8"	6'-1"	8'-9"	2'-10"	6'-1"	10'-7"			
		24'		1'-0"	2'-5"	4'-9"	7'-3"	9'-11"	3'-11"	7'-3"				
		26'	19.2"	1'-3"	3'-6"	5'-10"	8'-5"	11'-1"	5'-0"	8'-5"				
		27'		1'-0"	1'-6"	4'-4"	7'-4"	10'-8"	3'-3"	7'-4"	12'-10"			
		29'		1'-0"	2'-7"	5'-5"	8'-6"	11'-10"	4'-4"	8'-5"	14'-1"			
		31'	16"	1'-0"	1'-2"	4'-6"	8'-1"	12'-0"	3'-2"	7'-11"	14'-6"	15'-0"		
		33'		1'-0"	1'-0"	1'-8"	6'-2"	11'-2"	1'-0"	5'-10"	14'-3"	14'-10"	15'-4"	
		35'	12"	1'-0"	1'-0"	2'-8"	7'-3"	12'-4"	1'-0"	6'-11"	15'-5"	16'-0"	16'-7"	

PKjoist PKI 90L ALLOWABLE HOLE LOCATIONS - See IAPMO UES ER-431

Series	Depth	Clear Span	O.C. Spacing	Simple Span for Live Loads up to 40 psf and Dead Loads up to 25 psf										
				Minimum Distance from Inside Face of Bearing to Center of Hole										
				Round and Clustered Round Hole Size (inches)					Square or Rectangular Hole Size (inches)					
				4	6½	8 ⅞	11	13	4	6½	8 ⅞	11	13	
PKI 90L	9 ½"	8'	24"	1'-0"	1'-0"				1'-0"	1'-0"				
		10'		1'-0"	1'-0"				1'-0"	1'-9"				
		12'		1'-0"	1'-8"				1'-0"	2'-10"				
		14'		1'-0"	2'-9"				1'-2"	3'-11"				
		16'		1'-0"	3'-11"				2'-3"	5'-1"				
		17'		1'-0"	4'-6"				2'-9"	5'-8"				
		19'	19.2"	1'-0"	4'-5"				2'-3"	5'-11"				
		20'	16"	1'-0"	3'-9"				1'-3"	5'-4"				
		22'	12"	1'-0"	2'-7"				1'-0"	4'-6"				
	11 ⅞"	8'	24"	1'-0"	1'-0"	1'-0"			1'-0"	1'-0"	1'-0"			
		10'		1'-0"	1'-0"	1'-0"			1'-0"	1'-0"	2'-0"			
		12'		1'-0"	1'-0"	1'-7"			1'-0"	1'-6"	3'-2"			
		14'		1'-0"	1'-0"	2'-8"			1'-0"	2'-7"	4'-4"			
		16'		1'-0"	1'-0"	3'-9"			1'-0"	3'-9"	5'-6"			
		18'		1'-0"	1'-0"	4'-11"			1'-0"	4'-10"	6'-8"			
		20'		1'-0"	2'-3"	6'-1"			1'-0"	6'-0"	7'-11"			
		21'		1'-0"	2'-9"	6'-8"			1'-2"	6'-7"	8'-5"			
		22'	19.2"	1'-0"	1'-3"	5'-11"			1'-0"	5'-9"	8'-0"			
		24'	16"	1'-0"	1'-0"	5'-10"			1'-0"	5'-7"	8'-2"			
		26'	12"	1'-0"	1'-0"	4'-6"			1'-0"	4'-1"	7'-5"			
		27'		1'-0"	1'-0"	5'-1"			1'-0"	4'-8"	8'-0"			
	14"	8'	24"	1'-0"	1'-0"	1'-0"	1'-0"		1'-0"	1'-0"	1'-0"	1'-3"		
		10'		1'-0"	1'-0"	1'-0"	1'-0"		1'-0"	1'-0"	2'-0"	2'-4"		
		12'		1'-0"	1'-0"	1'-0"	1'-9"		1'-0"	1'-0"	3'-2"	3'-6"		
		14'		1'-0"	1'-0"	1'-0"	2'-10"		1'-0"	1'-0"	4'-4"	4'-8"		
		16'		1'-0"	1'-0"	1'-0"	4'-0"		1'-0"	1'-0"	5'-6"	5'-10"		
		18'		1'-0"	1'-0"	2'-0"	5'-2"		1'-0"	2'-0"	6'-8"	7'-0"		
		20'		1'-0"	1'-0"	3'-1"	6'-5"		1'-0"	3'-1"	7'-10"	8'-2"		
		22'		1'-0"	1'-0"	4'-3"	7'-7"		1'-0"	4'-2"	9'-0"	9'-5"		
		24'		1'-0"	1'-10"	5'-4"	8'-9"		1'-0"	5'-3"	10'-3"	10'-7"		
		26'	19.2"	1'-0"	1'-0"	4'-6"	8'-8"		1'-0"	4'-5"	10'-5"	10'-10"		
		27'	16"	1'-0"	1'-0"	3'-2"	8'-0"		1'-0"	3'-0"	9'-11"	10'-5"		
		29'	12"	1'-0"	1'-0"	1'-0"	6'-10"		1'-0"	1'-0"	9'-2"	9'-9"		
		30'		1'-0"	1'-0"	1'-2"	7'-4"		1'-0"	1'-0"	9'-9"	10'-4"		
		10'	24"	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	1'-0"	1'-0"	1'-0"	2'-4"	2'-8"	
	16"	12'		1'-0"	1'-0"	1'-0"	1'-0"	1'-10"	1'-0"	1'-0"	1'-0"	3'-6"	3'-10"	
		14'		1'-0"	1'-0"	1'-0"	1'-0"	3'-0"	1'-0"	1'-0"	1'-7"	4'-8"	5'-0"	
		16'		1'-0"	1'-0"	1'-0"	1'-2"	4'-1"	1'-0"	1'-0"	2'-8"	5'-10"	6'-2"	
		18'		1'-0"	1'-0"	1'-0"	2'-2"	5'-3"	1'-0"	1'-0"	3'-10"	7'-0"	7'-4"	
		20'		1'-0"	1'-0"	1'-0"	3'-3"	6'-5"	1'-0"	1'-0"	5'-0"	8'-2"	8'-6"	
		22'		1'-0"	1'-0"	1'-4"	7'-7"	1'-0"	1'-4"	1'-4"	6'-1"	9'-5"	9'-9"	
		24'		1'-0"	1'-0"	2'-4"	5'-6"	8'-9"	1'-0"	2'-4"	7'-2"	10'-7"	10'-11"	
		26'		1'-0"	1'-0"	3'-5"	6'-8"	10'-0"	1'-0"	3'-5"	8'-4"	11'-10"	12'-2"	
		28'	19.2"	1'-0"	1'-0"	2'-0"	5'-10"	9'-10"	1'-0"	1'-10"	7'-10"	12'-0"	12'-5"	
		30'	16"	1'-0"	1'-0"	1'-0"	5'-1"	9'-9"	1'-0"	1'-0"	7'-4"	12'-3"	12'-8"	
		32'	12"	1'-0"	1'-0"	1'-0"	2'-6"	8'-6"	1'-0"	1'-0"	5'-3"	11'-6"	12'-0"	
		33'		1'-0"	1'-0"	1'-0"	3'-1"	9'-1"	1'-0"	1'-0"	5'-10"	12'-1"	12'-8"	

PKjoist
 PKI 90L
 ALLOWABLE HOLE LOCATIONS - See IAPMO UES ER-431

Series	Depth	Clear Span	O.C. Spacing	Simple Span for Live Loads up to 40 psf and Dead Loads up to 25 psf										
				Minimum Distance from Inside Face of Bearing to Center of Hole										
				Round and Clustered Round Hole Size (inches)					Square or Rectangular Hole Size (inches)					
				9	11	13	15	17	9	11	13	15	17	
PKI 90L	18"	16'	24"	1'-0"	1'-0"	1'-3"	4'-2"		1'-0"	4'-1"	6'-2"	6'-6"		
		18'		1'-0"	1'-0"	2'-4"	5'-4"		1'-3"	5'-3"	7'-4"	7'-8"		
		20'		1'-0"	1'-0"	3'-5"	6'-3"		2'-4"	6'-5"	8'-6"	8'-10"		
		22'		1'-0"	1'-7"	4'-6"	7'-8"		3'-5"	7'-7"	9'-9"	10'-1"		
		24'		1'-0"	2'-8"	5'-7"	8'-10"		4'-6"	8'-9"	10'-11"	11'-3"		
		26'		1'-0"	3'-9"	6'-9"	10'-1"		5'-7"	9'-11"	12'-2"	12'-6"		
		28'	19.2"	2'-0"	4'-10"	7'-11"	11'-3"		6'-9"	11'-1"	13'-4"	13'-8"		
		29'		2'-6"	5'-6"	8'-6"	11'-10"		7'-3"	11'-9"	14'-0"			
		30'		1'-0"	3'-5"	7'-1"	11'-2"		5'-7"	10'-11"	13'-7"	14'-0"		
		31'		1'-0"	3'-11"	7'-8"	11'-9"		6'-2"	11'-6"	14'-3"	14'-7"		
		32'		1'-0"	2'-0"	6'-4"	11'-1"		4'-6"	10'-8"	13'-10"	14'-4"		
		33'	16"	1'-0"	2'-7"	6'-11"	11'-8"		5'-1"	11'-3"	14'-6"	14'-11"		
	20"	34'	12"	1'-0"	1'-0"	3'-9"	9'-9"		1'-5"	9'-2"	13'-3"	13'-10"		
		36'		1'-0"	1'-0"	4'-10"	10'-11"		2'-5"	10'-4"	14'-5"	15'-0"		
		16'	24"	1'-0"	1'-0"	1'-1"	1'-3"	4'-3"	1'-0"	1'-4"	6'-2"	6'-6"	6'-10"	
		18'		1'-0"	1'-0"	1'-1"	2'-4"	5'-4"	1'-0"	2'-4"	7'-4"	7'-8"	8'-0"	
		20'		1'-0"	1'-0"	1'-1"	3'-5"	6'-6"	1'-0"	3'-5"	8'-6"	8'-10"	9'-2"	
		22'		1'-0"	1'-0"	1'-8"	4'-7"	7'-9"	1'-0"	4'-6"	9'-9"	10'-1"	10'-5"	
		24'		1'-0"	1'-0"	2'-9"	5'-8"	8'-11"	1'-9"	5'-8"	10'-11"	11'-3"	11'-7"	
		26'		1'-0"	1'-1"	3'-10"	6'-10"	10'-1"	2'-10"	6'-9"	12'-2"	12'-6"		
		28'	19.2"	1'-0"	2'-1"	4'-11"	8'-0"	11'-3"	3'-10"	7'-11"	13'-4"	13'-8"		
		30'		1'-0"	3'-2"	6'-1"	9'-2"	12'-6"	4'-11"	9'-1"	14'-7"			
		31'		1'-0"	3'-8"	6'-7"	9'-9"	13'-1"	5'-6"	9'-8"	15'-2"			
		33'		1'-0"	1'-8"	5'-2"	8'-11"	13'-0"	3'-9"	8'-8"	15'-5"	15'-10"	16'-3"	
		34'		1'-0"	2'-2"	5'-8"	9'-6"	13'-7"	4'-3"	9'-3"	16'-0"	16'-5"		
		36'	16"	1'-0"	1'-0"	4'-3"	8'-8"	13'-6"	2'-7"	8'-4"	16'-3"	16'-9"	17'-3"	
	39"	38'	12"	1'-0"	1'-0"	1'-1"	6'-1"	12'-2"	1'-0"	5'-7"	15'-7"	16'-2"	16'-9"	
		39'		1'-0"	1'-0"	1'-1"	6'-7"	12'-9"	1'-0"	6'-1"	16'-2"	16'-9"	17'-4"	

GENERAL NOTES FOR I-JOIST FLOOR SPAN TABLES:

Values shown are maximum allowable spans based on the following assumptions:

- Simple span; horizontal clear distance between supports.
- Uniformly loaded conditions with minimum 1 ½" bearing length and no web stiffeners. Other capacities may be possible with different criteria; contact your XP-USA representative.
- Composite action with horizontal diaphragm sheathing is considered for joist deflection. Span values assume 23/32" OSB rated sheathing is glued and nailed to joists for composite action.
- Floor Total Load deflection limit is $L/240$.
- Floor Live Load deflection limit is based on the specific limit noted in the tables.
- For multi-span joist design, analyze using Simpson Strong Tie or MiTek software.

L360 CODE MINIMUM

PKI 60L

40 LL/15 DL and 40 LL/30 DL – Loads in (psf)
(LL Defl= L/360); Simple Spans (ft-in)

Note: Published allowable simple spans are measured to the face of support (clear span)

Joist Type	PKI 60L - 40/15 o.c. Spacing (in)			
	12	16	19.2	24
PKI 60L-10	20' 1/2"	18' 1 1/2"	16' 11 1/2"	15' 3 1/2"
PKI 60L-12	23' 8 1/2"	21' 3 1/2"	19' 5 1/2"	17' 4 1/2"
PKI 60L-14	26' 9 1/2"	23' 2 1/2"	21' 2 1/2"	18' 11 1/2"
PKI 60L-16	28' 8 1/2"	24' 10 1/2"	22' 7 1/2"	20' 2 1/2"

Joist Type	PKI 60L - 40/30 o.c. Spacing (in)			
	12	16	19.2	24
PKI 60L-10	19' 3 1/2"	16' 7 1/2"	15' 2 1/2"	13' 6 1/2"
PKI 60L-12	21' 10 1/2"	18' 10 1/2"	17' 2 1/2"	15' 4 1/2"
PKI 60L-14	23' 9 1/2"	20' 6 1/2"	18' 9 1/2"	16' 9 1/2"
PKI 60L-16	25' 5 1/2"	21' 11 1/2"	20' 1/2"	17' 11 1/2"

PKI 70L

40 LL/15 DL and 40 LL/30 DL – Loads in (psf)
(LL Defl= L/360); Simple Spans (ft-in)

Note: Published allowable simple spans are measured to the face of support (clear span)

Joist Type	PKI 70L - 40/15 o.c. Spacing (in)			
	12	16	19.2	24
PKI 70L-10	20' 9 1/2"	18' 9 1/2"	17' 7 1/2"	16' 3 1/2"
PKI 70L-12	24' 7 1/2"	22' 3 1/2"	20' 8 1/2"	18' 6 1/2"
PKI 70L-14	27' 10 1/2"	24' 9 1/2"	22' 7 1/2"	20' 2 1/2"
PKI 70L-16	30' 7 1/2"	26' 5 1/2"	24' 1 1/2"	21' 7 1/2"

Joist Type	PKI 70L - 40/30 o.c. Spacing (in)			
	12	16	19.2	24
PKI 70L-10	20' 6 1/2"	17' 9 1/2"	16' 2 1/2"	14' 5 1/2"
PKI 70L-12	23' 3 1/2"	20' 1 1/2"	18' 4 1/2"	16' 4 1/2"
PKI 70L-14	25' 4 1/2"	21' 11 1/2"	20' 1/2"	17' 10 1/2"
PKI 70L-16	27' 1 1/2"	23' 5 1/2"	21' 4 1/2"	19' 1 1/2"

L360 CODE MINIMUM

PKI 80L

40 LL/15 DL and 40 LL/30 DL – Loads in (psf)
(LL Defl= L/360); Simple Spans (ft-in)

Note: Published allowable simple spans are measured to the face of support (clear span)

Joist Type	PKI 80L - 40/15 o.c. Spacing (in)			
	12	16	19.2	24
PKI 80L-10	21' 10 1/2"	19' 9 1/2"	18' 6 1/2"	17' 1 1/2"
PKI 80L-12	26' 1/2"	23' 6 1/2"	22' 1/2"	20' 4 1/2"
PKI 80L-14	29' 6 1/2"	26' 8 1/2"	25' 1/2"	23' 1 1/2"
PKI 80L-16	32' 8 1/2"	29' 6 1/2"	27' 7 1/2"	24' 8 1/2"
PKI 80L-18	35' 8 1/2"	32' 2 1/2"	29' 4 1/2"	26' 2 1/2"
PKI 80L-20	38' 7 1/2"	33' 11 1/2"	30' 11 1/2"	27' 7 1/2"

Joist Type	PKI 80L - 40/30 o.c. Spacing (in)			
	12	16	19.2	24
PKI 80L-10	21' 10 1/2"	19' 9 1/2"	18' 4 1/2"	16' 5 1/2"
PKI 80L-12	26' 1/2"	22' 11 1/2"	20' 11 1/2"	18' 8 1/2"
PKI 80L-14	28' 11 1/2"	25' 1 1/2"	22' 10 1/2"	20' 5 1/2"
PKI 80L-16	31' 1/2"	26' 10 1/2"	24' 6 1/2"	21' 10 1/2"
PKI 80L-18	32' 11 1/2"	28' 6 1/2"	26' 1/2"	23' 2 1/2"
PKI 80L-20	34' 8 1/2"	30' 1/2"	27' 4 1/2"	24' 6 1/2"

L360 CODE MINIMUM

PKI 90L

40 LL/15 DL and 40 LL/30 DL – Loads in (psf)
(LL Defl= L/360); Simple Spans (ft-in)

Note: Published allowable simple spans are measured to the face of support (clear span)

Joist Type	PKI 90L - 40/15 o.c. Spacing (in)			
	12	16	19.2	24
PKI 90L-10	24' 7 1/2"	22' 2 1/2"	20' 10 1/2"	19' 2 1/2"
PKI 90L-12	29' 3 1/2"	26' 5 1/2"	24' 9 1/2"	22' 10 1/2"
PKI 90L-14	33' 2 1/2"	29' 11 1/2"	28' 1 1/2"	25' 11 1/2"
PKI 90L-16	36' 8 1/2"	33' 2 1/2"	31' 1 1/2"	28' 8 1/2"
PKI 90L-18	40' 1 1/2"	36' 3 1/2"	34' 1/2"	31' 4 1/2"
PKI 90L-20	43' 4 1/2"	39' 2 1/2"	36' 9 1/2"	33' 11 1/2"

Joist Type	PKI 90L - 40/30 o.c. Spacing (in)			
	12	16	19.2	24
PKI 90L-10	24' 7 1/2"	22' 2 1/2"	20' 10 1/2"	19' 2 1/2"
PKI 90L-12	29' 3 1/2"	26' 5 1/2"	24' 9 1/2"	22' 10 1/2"
PKI 90L-14	33' 2 1/2"	29' 11 1/2"	28' 1 1/2"	25' 4 1/2"
PKI 90L-16	36' 8 1/2"	33' 2 1/2"	30' 4 1/2"	27' 1 1/2"
PKI 90L-18	40' 1 1/2"	35' 3 1/2"	32' 2 1/2"	28' 9 1/2"
PKI 80L-20	43' 1/2"	37' 2 1/2"	33' 11 1/2"	30' 4 1/2"

L480 RECOMMENDED MINIMUM

PKI 60L

40 LL/15 DL and 40 LL/30 DL – Loads in (psf)
(LL Defl= L/480); Simple Spans (ft-in)

Note: Published allowable simple spans are measured to the face of support (clear span)

Joist Type	PKI 60L - 40/15 o.c. Spacing (in)			
	12	16	19.2	24
PKI 60L-10	18' 1 1/2"	16' 4 1/2"	15' 3 1/2"	14' 1 1/2"
PKI 60L-12	21' 4 1/2"	19' 4 1/2"	18' 1 1/2"	16' 8 1/2"
PKI 60L-14	24' 2 1/2"	21' 10 1/2"	20' 6 1/2"	18' 11 1/2"
PKI 60L-16	26' 9 1/2"	24' 2 1/2"	22' 7 1/2"	20' 2 1/2"

Joist Type	PKI 60L - 40/30 o.c. Spacing (in)			
	12	16	19.2	24
PKI 60L-10	18' 1 1/2"	16' 4 1/2"	15' 2 1/2"	13' 6 1/2"
PKI 60L-12	21' 4 1/2"	18' 10 1/2"	17' 2 1/2"	15' 4 1/2"
PKI 60L-14	23' 9 1/2"	20' 6 1/2"	18' 9 1/2"	16' 9 1/2"
PKI 60L-16	25' 5 1/2"	21' 11 1/2"	20' 1/2"	17' 11 1/2"

PKI 70L

40 LL/15 DL and 40 LL/30 DL – Loads in (psf)
(LL Defl= L/480); Simple Spans (ft-in)

Note: Published allowable simple spans are measured to the face of support (clear span)

Joist Type	PKI 70L - 40/15 o.c. Spacing (in)			
	12	16	19.2	24
PKI 70L-10	18' 9 1/2"	16' 11 1/2"	15' 10 1/2"	14' 7 1/2"
PKI 70L-12	22' 3 1/2"	20' 1 1/2"	18' 10 1/2"	17' 4 1/2"
PKI 70L-14	25' 2 1/2"	22' 9 1/2"	21' 4 1/2"	19' 8 1/2"
PKI 70L-16	27' 10 1/2"	25' 2 1/2"	23' 7 1/2"	21' 7 1/2"

Joist Type	PKI 70L - 40/30 o.c. Spacing (in)			
	12	16	19.2	24
PKI 70L-10	18' 9 1/2"	16' 11 1/2"	15' 10 1/2"	14' 5 1/2"
PKI 70L-12	22' 3 1/2"	20' 1 1/2"	18' 4 1/2"	16' 4 1/2"
PKI 70L-14	25' 2 1/2"	21' 11 1/2"	20' 1/2"	17' 10 1/2"
PKI 70L-16	27' 1 1/2"	23' 5 1/2"	21' 4 1/2"	19' 1 1/2"

L480 RECOMMENDED MINIMUM

PKI 80L

40 LL/15 DL and 40 LL/30 DL – Loads in (psf)
(LL Defl= L/480); Simple Spans (ft-in)

Note: Published allowable simple spans are measured to the face of support (clear span)

Joist Type	PKI 80L - 40/15 o.c. Spacing (in)			
	12	16	19.2	24
PKI 80L-10	19' 9 1/2"	17' 9 1/2"	16' 8 1/2"	15' 4 1/2"
PKI 80L-12	23' 6 1/2"	21' 2 1/2"	19' 10 1/2"	18' 4 1/2"
PKI 80L-14	26' 8 1/2"	24' 1 1/2"	22' 7 1/2"	20' 10 1/2"
PKI 80L-16	29' 6 1/2"	26' 8 1/2"	25' 1/2"	23' 1 1/2"
PKI 80L-18	32' 3 1/2"	29' 2 1/2"	27' 4 1/2"	25' 3 1/2"
PKI 80L-20	34' 10 1/2"	31' 6 1/2"	29' 6 1/2"	27' 3 1/2"

Joist Type	PKI 80L - 40/30 o.c. Spacing (in)			
	12	16	19.2	24
PKI 80L-10	19' 9 1/2"	17' 9 1/2"	16' 8 1/2"	15' 4 1/2"
PKI 80L-12	23' 6 1/2"	21' 2 1/2"	19' 10 1/2"	18' 4 1/2"
PKI 80L-14	26' 8 1/2"	24' 1 1/2"	22' 7 1/2"	20' 5 1/2"
PKI 80L-16	29' 6 1/2"	26' 8 1/2"	24' 6 1/2"	21' 10 1/2"
PKI 80L-18	32' 3 1/2"	28' 6 1/2"	26' 1/2"	23' 2 1/2"
PKI 80L-20	34' 8 1/2"	30' 1/2"	27' 4 1/2"	24' 6 1/2"

L480 RECOMMENDED MINIMUM

PKI 90L

40 LL/15 DL and 40 LL/30 DL – Loads in (psf)
(LL Defl= L/480); Simple Spans (ft-in)

Note: Published allowable simple spans are measured to the face of support (clear span)

Joist Type	PKI 90L - 40/15 o.c. Spacing (in)			
	12	16	19.2	24
PKI 90L-10	22' 2 1/2"	20' 1/2"	18' 9 1/2"	17' 3 1/2"
PKI 90L-12	26' 5 1/2"	23' 10 1/2"	22' 4 1/2"	20' 7 1/2"
PKI 90L-14	29' 11 1/2"	27' 1/2"	25' 4 1/2"	23' 4 1/2"
PKI 90L-16	33' 2 1/2"	29' 11 1/2"	28' 1 1/2"	25' 10 1/2"
PKI 90L-18	36' 3 1/2"	32' 9 1/2"	30' 8 1/2"	28' 3 1/2"
PKI 90L-20	39' 2 1/2"	35' 5 1/2"	33' 2 1/2"	30' 7 1/2"

Joist Type	PKI 90L - 40/30 o.c. Spacing (in)			
	12	16	19.2	24
PKI 90L-10	22' 2 1/2"	20' 1/2"	18' 9 1/2"	17' 3 1/2"
PKI 90L-12	26' 5 1/2"	23' 10 1/2"	22' 4 1/2"	20' 7 1/2"
PKI 90L-14	29' 11 1/2"	27' 1/2"	25' 4 1/2"	23' 4 1/2"
PKI 90L-16	33' 2 1/2"	29' 11 1/2"	28' 1 1/2"	25' 10 1/2"
PKI 90L-18	36' 3 1/2"	32' 9 1/2"	30' 8 1/2"	28' 3 1/2"
PKI 80L-20	39' 2 1/2"	35' 5 1/2"	33' 2 1/2"	30' 4 1/2"

L720 SUPERIOR

PKI 60L

**40 LL/15 DL and 40 LL/30 DL – Loads in (psf)
(LL Defl= L/720); Simple Spans (ft-in)**

Note: Published allowable simple spans are measured to the face of support (clear span)

Joist Type	PKI 60L - 40/15 o.c. Spacing (in)			
	12	16	19.2	24
PKI 60L-10	15' 8 1/2"	14' 1 1/2"	13' 2 1/2"	12' 1 1/2"
PKI 60L-12	18' 6 1/2"	16' 8 1/2"	15' 7 1/2"	14' 5 1/2"
PKI 60L-14	21' 1/2"	18' 11 1/2"	17' 8 1/2"	16' 4 1/2"
PKI 60L-16	23' 2 1/2"	20' 11 1/2"	19' 7 1/2"	18' 1 1/2"

Joist Type	PKI 60L - 40/30 o.c. Spacing (in)			
	12	16	19.2	24
PKI 60L-10	15' 8 1/2"	14' 1 1/2"	13' 2 1/2"	12' 1 1/2"
PKI 60L-12	18' 6 1/2"	16' 8 1/2"	15' 7 1/2"	14' 5 1/2"
PKI 60L-14	21' 1/2"	18' 11 1/2"	17' 8 1/2"	16' 4 1/2"
PKI 60L-16	23' 2 1/2"	20' 11 1/2"	19' 7 1/2"	17' 11 1/2"

PKI 70L

**40 LL/15 DL and 40 LL/30 DL – Loads in (psf)
(LL Defl= L/720); Simple Spans (ft-in)**

Note: Published allowable simple spans are measured to the face of support (clear span)

Joist Type	PKI 70L - 40/15 o.c. Spacing (in)			
	12	16	19.2	24
PKI 70L-10	16' 3 1/2"	14' 7 1/2"	13' 8 1/2"	12' 7 1/2"
PKI 70L-12	19' 3 1/2"	17' 4 1/2"	16' 3 1/2"	14' 11 1/2"
PKI 70L-14	21' 10 1/2"	19' 8 1/2"	18' 5 1/2"	17' 1/2"
PKI 70L-16	24' 2 1/2"	21' 9 1/2"	20' 4 1/2"	18' 9 1/2"

Joist Type	PKI 70L - 40/30 o.c. Spacing (in)			
	12	16	19.2	24
PKI 70L-10	16' 3 1/2"	14' 7 1/2"	13' 8 1/2"	12' 7 1/2"
PKI 70L-12	19' 3 1/2"	17' 4 1/2"	16' 3 1/2"	14' 11 1/2"
PKI 70L-14	21' 10 1/2"	19' 8 1/2"	18' 5 1/2"	17' 1/2"
PKI 70L-16	24' 2 1/2"	21' 9 1/2"	20' 4 1/2"	18' 9 1/2"

L720 SUPERIOR

PKI 80L

40 LL/15 DL and 40 LL/30 DL – Loads in (psf)
(LL Defl= L/720); Simple Spans (ft-in)

Note: Published allowable simple spans are measured to the face of support (clear span)

Joist Type	PKI 80L - 40/15 o.c. Spacing (in)			
	12	16	19.2	24
PKI 80L-10	17' 1 1/2"	15' 4 1/2"	14' 4 1/2"	13' 2 1/2"
PKI 80L-12	20' 4 1/2"	18' 4 1/2"	17' 2 1/2"	15' 9 1/2"
PKI 80L-14	23' 1 1/2"	20' 10 1/2"	19' 6 1/2"	17' 11 1/2"
PKI 80L-16	25' 7 1/2"	23' 1 1/2"	21' 7 1/2"	19' 10 1/2"
PKI 80L-18	28' 1/2"	25' 3 1/2"	23' 7 1/2"	21' 9 1/2"
PKI 80L-20	30' 3 1/2"	27' 3 1/2"	25' 6 1/2"	23' 6 1/2"

Joist Type	PKI 80L - 40/30 o.c. Spacing (in)			
	12	16	19.2	24
PKI 80L-10	17' 1 1/2"	15' 4 1/2"	14' 4 1/2"	13' 2 1/2"
PKI 80L-12	20' 4 1/2"	18' 4 1/2"	17' 2 1/2"	15' 9 1/2"
PKI 80L-14	23' 1 1/2"	20' 10 1/2"	19' 6 1/2"	17' 11 1/2"
PKI 80L-16	25' 7 1/2"	23' 1 1/2"	21' 7 1/2"	19' 10 1/2"
PKI 80L-18	28' 1/2"	25' 3 1/2"	23' 7 1/2"	21' 9 1/2"
PKI 80L-20	30' 3 1/2"	27' 3 1/2"	25' 6 1/2"	23' 6 1/2"

L720 SUPERIOR

PKI 90L

40 LL/15 DL and 40 LL/30 DL – Loads in (psf)
(LL Defl= L/720); Simple Spans (ft-in)

Note: Published allowable simple spans are measured to the face of support (clear span)

Joist Type	PKI 90L - 40/15 o.c. Spacing (in)			
	12	16	19.2	24
PKI 90L-10	19' 2 1/2"	17' 3 1/2"	16' 1 1/2"	14' 10 1/2"
PKI 90L-12	22' 10 1/2"	20' 7 1/2"	19' 3 1/2"	17' 8 1/2"
PKI 90L-14	25' 11 1/2"	23' 4 1/2"	21' 10 1/2"	20' 1 1/2"
PKI 90L-16	28' 8 1/2"	25' 10 1/2"	24' 2 1/2"	22' 3 1/2"
PKI 90L-18	31' 4 1/2"	28' 3 1/2"	26' 5 1/2"	24' 4 1/2"
PKI 90L-20	33' 11 1/2"	30' 7 1/2"	28' 8 1/2"	26' 4 1/2"

Joist Type	PKI 90L - 40/30 o.c. Spacing (in)			
	12	16	19.2	24
PKI 90L-10	19' 2 1/2"	17' 3 1/2"	16' 1 1/2"	14' 10 1/2"
PKI 90L-12	22' 10 1/2"	20' 7 1/2"	19' 3 1/2"	17' 8 1/2"
PKI 90L-14	25' 11 1/2"	23' 4 1/2"	21' 10 1/2"	20' 1 1/2"
PKI 90L-16	28' 8 1/2"	25' 10 1/2"	24' 2 1/2"	22' 3 1/2"
PKI 90L-18	31' 4 1/2"	28' 3 1/2"	26' 5 1/2"	24' 4 1/2"
PKI 80L-20	33' 11 1/2"	30' 7 1/2"	28' 8 1/2"	26' 4 1/2"

GENERAL NOTES FOR FLOOR LOAD TABLES:

Values shown are maximum allowable load capacities based on the following assumptions:

- Simple span; horizontal clear distance between supports
- Uniformly loaded conditions with minimum 1 ½" bearing length and no web stiffeners. Other capacities may be possible with different criteria; contact your XP-USA representative.
- Composite action with horizontal diaphragm sheathing is not considered for joist deflection.
- Floor Total Load deflection limit is $L/240$.
- Floor Live Load deflection limit is $L/480$.
- (-) Indicates Total Load (TL) value controls.
- For multi-span joist design, analyze using Simpson Strong Tie or MiTek software.

PKI 60L Allowable Uniform Floor Loading (100% Load Duration)

	PKI 60L-10		PKI 60L-12		PKI 60L-14		PKI 60L-16	
Span Length (ft)	Live Load (plf)	Total Load (plf)	Live Load (plf)	Total Load (plf)	Live Load (plf)	Total Load (plf)	Live Load (plf)	Total Load (plf)
6	-	527	-	600	-	650	-	732
7	440	451	-	514	-	557	-	627
8	317	395	-	450	-	488	-	549
9	235	326	366	400	-	433	-	488
10	178	264	281	339	388	390	-	439
11	138	218	219	280	305	332	-	379
12	109	183	174	235	244	279	318	318
13	87	156	140	200	197	238	259	271
14	71	135	115	173	162	205	213	234
15	58	117	95	151	134	178	177	204
16	49	97	79	132	112	157	149	179
17	41	82	67	117	95	139	126	159
18	35	69	57	105	81	124	107	141
19	30	59	49	94	70	111	92	127
20	26	51	42	84	60	100	80	115
21	22	44	36	73	52	91	70	104
22	19	39	32	64	46	83	61	95
23	17	34	28	56	40	76	54	87
24	15	30	25	50	36	70	48	80
25	13	27	22	44	32	63	42	73
26	12	24	20	39	28	57	38	68
27	11	21	18	35	25	51	34	63
28	10	19	16	32	23	46	31	58
29	9	17	14	28	21	41	28	55
30	8	16	13	26	19	37	25	50

PKI 70L Allowable Uniform Floor Loading (100% Load Duration)

	PKI 70L-10		PKI 70L-12		PKI 70L-14		PKI 70L-16	
Span Length (ft)	Live Load (plf)	Total Load (plf)	Live Load (plf)	Total Load (plf)	Live Load (plf)	Total Load (plf)	Live Load (plf)	Total Load (plf)
6	-	527	-	600	-	650	-	732
7	-	451	-	514	-	557	-	627
8	349	395	-	450	-	488	-	549
9	260	351	-	400	-	433	-	488
10	198	300	312	360	-	390	-	439
11	154	248	244	318	340	355	-	399
12	122	208	195	267	272	317	354	362
13	98	178	157	228	221	270	289	308
14	80	153	129	196	182	233	239	266
15	66	132	107	171	151	203	199	231
16	55	110	89	150	127	178	167	203
17	46	92	75	133	107	158	142	180
18	39	78	64	119	92	141	122	161
19	34	67	55	107	79	126	105	144
20	29	58	48	95	68	114	91	130
21	25	50	41	83	59	103	79	118
22	22	44	36	72	52	94	69	108
23	19	39	32	64	46	86	61	98
24	17	34	28	56	41	79	54	90
25	15	30	25	50	36	72	48	83
26	13	27	22	45	32	65	43	77
27	12	24	20	40	29	58	39	71
28	11	22	18	36	26	52	35	66
29	10	20	16	32	23	47	32	62
30	9	18	15	29	21	43	29	57

PKI 80L Allowable Uniform Floor Loading (100% Load Duration)

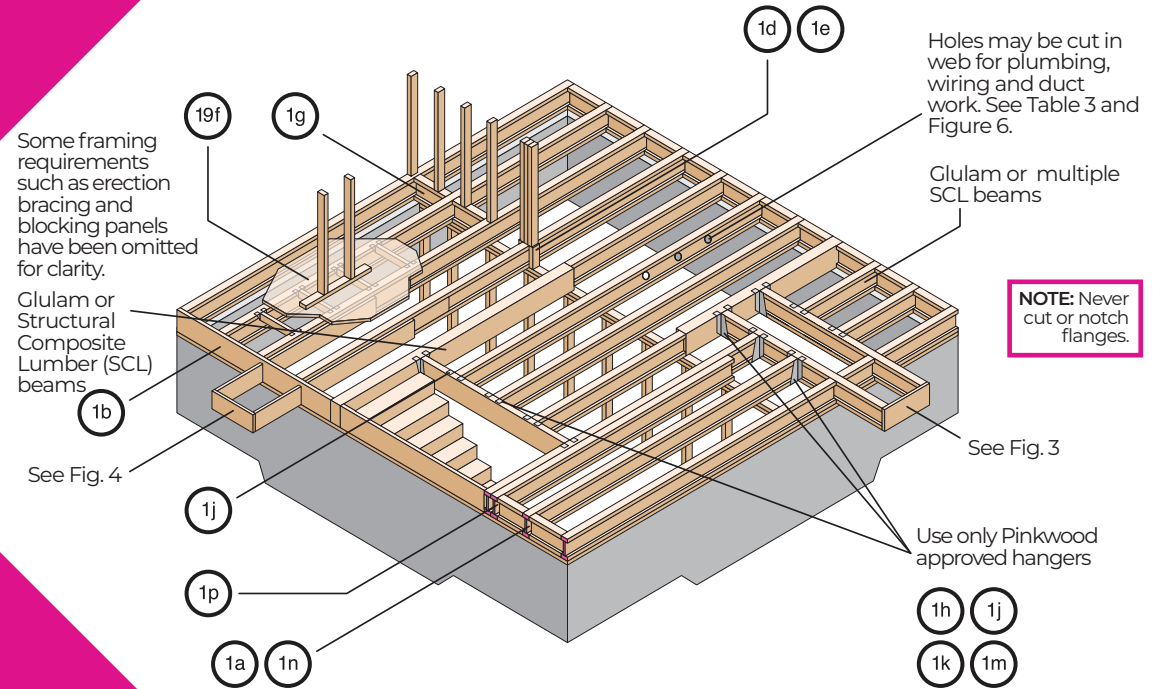
	PKI 80L-10		PKI 80L-12		PKI 80L-14		PKI 80L-16		PKI 80L-18		PKI 80L-20	
Span Length (ft)	Live Load (plf)	Total Load (plf)	Live Load (plf)	Total Load (plf)	Live Load (plf)	Total Load (plf)	Live Load (plf)	Total Load (plf)	Live Load (plf)	Total Load (plf)	Live Load (plf)	Total Load (plf)
6	-	533	-	600	-	658	-	733	-	817	-	900
7	-	457	-	514	-	564	-	629	-	700	-	771
8	397	400	-	450	-	494	-	550	-	613	-	675
9	298	356	-	400	-	439	-	489	-	544	-	600
10	229	320	-	360	-	395	-	440	-	490	-	540
11	179	291	284	327	-	359	-	400	-	445	-	491
12	142	267	228	300	318	329	-	367	-	408	-	450
13	115	228	185	277	260	304	338	338	-	377	-	415
14	94	187	152	254	214	282	280	314	-	350	-	386
15	77	155	126	222	179	263	235	293	297	327	-	360
16	65	129	106	195	151	233	198	266	252	300	309	333
17	55	109	90	173	128	206	169	236	215	265	264	295
18	46	93	77	153	109	184	145	210	185	237	228	263
19	40	80	66	132	94	165	125	189	160	213	198	236
20	34	69	57	114	82	149	109	170	139	192	172	213
21	30	60	50	99	71	135	95	155	122	174	151	193
22	26	52	43	87	63	123	83	141	107	159	133	176
23	23	46	38	77	55	110	74	129	95	145	118	161
24	20	41	34	68	49	98	65	118	84	133	105	148
25	18	36	30	60	44	87	58	109	75	123	94	136
26	16	32	27	54	39	78	52	101	67	113	84	126
27	14	29	24	48	35	70	47	93	61	105	75	117
28	13	26	22	43	31	63	42	84	55	98	68	109
29	12	23	20	39	28	57	38	76	49	91	62	101
30	11	21	18	36	26	52	35	69	45	85	56	95

PKI 90L Allowable Uniform Floor Loading (100% Load Duration)

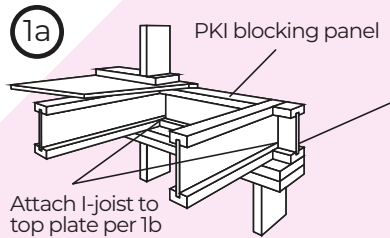
	PKI 90L-10		PKI 90L-12		PKI 90L-14		PKI 90L-16		PKI 90L-18		PKI 90L-20	
Span Length (ft)	Live Load (plf)	Total Load (plf)	Live Load (plf)	Total Load (plf)	Live Load (plf)	Total Load (plf)	Live Load (plf)	Total Load (plf)	Live Load (plf)	Total Load (plf)	Live Load (plf)	Total Load (plf)
6	-	567	-	725	-	800	-	917	-	1017	-	1120
7	-	486	-	621	-	686	-	786	-	871	-	960
8	-	425	-	544	-	600	-	688	-	763	-	840
9	-	378	-	483	-	533	-	611	-	678	-	747
10	310	340	-	435	-	480	-	550	-	610	-	672
11	246	309	380	395	-	436	-	500	-	555	-	611
12	198	283	309	363	-	400	-	458	-	508	-	560
13	161	262	254	335	348	369	-	423	-	469	-	517
14	133	243	211	311	290	343	375	393	-	436	-	480
15	110	221	177	290	245	320	318	367	396	407	-	448
16	93	186	149	272	208	300	271	344	339	381	413	420
17	79	157	127	254	178	282	232	324	292	359	357	395
18	67	134	109	218	153	267	201	306	253	339	310	373
19	58	116	94	188	132	252	174	289	220	321	271	354
20	50	100	82	164	115	228	152	261	193	294	237	326
21	44	87	72	143	101	202	134	237	170	266	209	296
22	38	77	63	126	89	178	118	216	150	243	185	270
23	34	68	56	111	79	158	105	197	133	222	165	247
24	30	60	49	99	70	140	93	181	119	204	147	227
25	27	53	44	88	63	125	83	166	106	188	132	209
26	24	48	39	79	56	112	75	149	95	174	119	193
27	21	43	35	71	50	101	67	134	86	161	107	179
28	19	38	32	64	45	91	61	121	78	150	97	166
29	17	35	29	58	41	82	55	110	71	140	88	155
30	16	31	26	52	37	75	50	100	64	128	80	145

FLOOR DETAILS

INSTALLATION

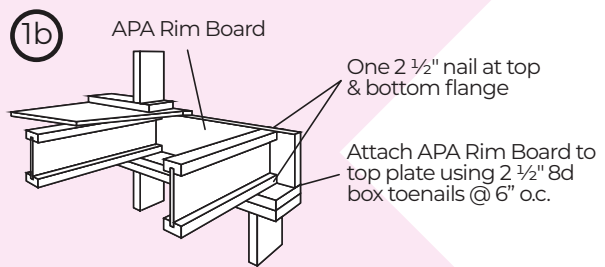


FLOOR INSTALLATION DETAILS - 1a, 1b, 1d



2 ½" 8d box nails at 6" o.c. to top plate (when used for lateral shear transfer, nail to bearing plate with same nailing as required for decking).

* The uniform vertical load is limited to a joist depth of 16" or less and is based on standard term load duration. It shall not be used in the design of a bending member such as joist, header or rafter. For concentrated vertical load transfer capacity, see IAPMO UES ER-431.



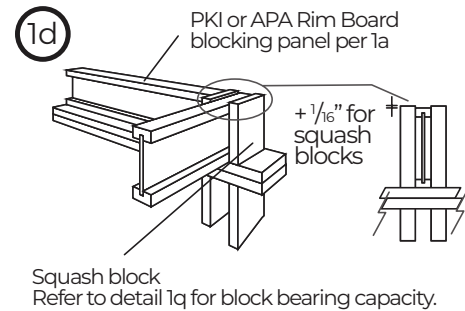
Blocking Panel and Rim Joist	Uniform Vertical Load Transfer Capacity ^a (plf)
1 ½" APA Rim Board, Rim Board Plus, C1 or better ^b	4850
1" APA Rim Board, C2 or better ^b	3300

a The uniform vertical load capacity is limited to a Rim Board depth of 16" or less and shall not be increased for any load duration shorter than the normal (10-yr.) load duration. It shall not be used in the design of a bending member, such as a joist, header, or rafter.

b See ANSI/APA PRR 410.

*The uniform vertical load capacity is limited to a rim board depth of 16" or less and is based on standard term load duration. It shall not be used in the design of a bending member, such as joist, header or rafter. For concentrated vertical load transfer capacity, see 1d.

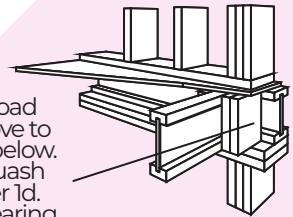
One 8d face nail at each side at bearing. To avoid splitting flange, start nails at least 1 ½" from end of i-joist. Nails may be driven at an angle to avoid splitting of bearing plate.



FLOOR INSTALLATION DETAILS - 1e, 1f, 1g

1e

Transfer load from above to bearing below. Install squash blocks per 1d. Match bearing area of blocks below to post above.



1g

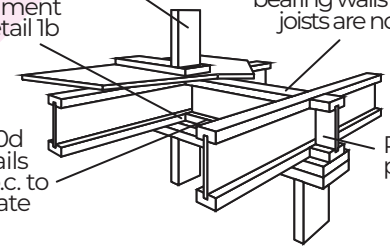
Load bearing wall above shall align vertically with the wall below. Other conditions, such as offset walls, are not covered by this detail.

Joist attachment per detail 1b

Blocking required over all interior supports under load-bearing walls or when floor joists are not continuous over support.

2 1/2" 10d box nails at 6" o.c. to top plate

PKI blocking panel per 1a



1h

Backer block (use if hanger load exceeds 250 lbf). Before installing a backer block to a double I-joist, drive (3) additional, 3" 10d common nails through the webs and filler block where the backer block will fit. Clinch. Install backer tight to top flange. Use (12) 3" 10d common nails, clinched when possible. Maximum capacity for hanger for this detail = 1280 lbf.

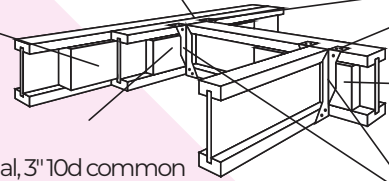
BACKER BLOCKS (Blocks must be long enough to permit required nailing without splitting)

Filler block per Figure 1p

Double I-joist header

Top-or face-mounted hanger

Backer block required (both sides for face-mounted hangers)



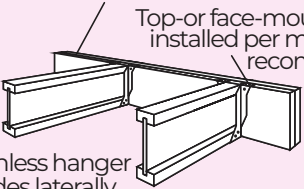
Note: Unless hanger sides laterally support the top flange, bearing stiffeners shall be used.

For hanger capacity, see hanger manufacturer's recommendations. Verify double I-joist capacity to support concentrated loads.

FLOOR INSTALLATION DETAILS - 1j, 1k, 1m

1j Glulam or multiple structural composite lumber (SCL) beams

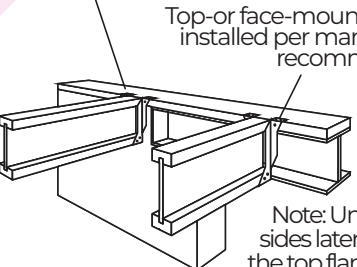
Top-or face-mounted hanger installed per manufacturer's recommendations



Unless hanger sides laterally support the top flange, bearing stiffeners shall be used. For nailing schedules for multiple SCL beams, see manufacturer's recommendations.

1k 2x plate flush with inside face of wall or beam

Top-or face-mounted hanger installed per manufacturer's recommendations

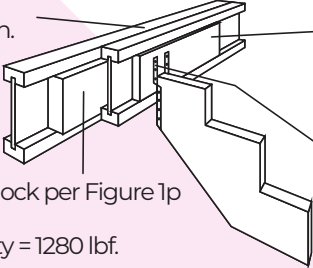


Note: Unless hanger sides laterally support the top flange, bearing stiffeners shall be used.

1m Multiple I-joist header with full depth filler block shown. Glulam and multiple SCL headers may also be used. Verify double I-joist capacity to support concentrated loads.

Backer block attach per 1h. Nail with (12) 3" 10d common nails, clinch when possible.

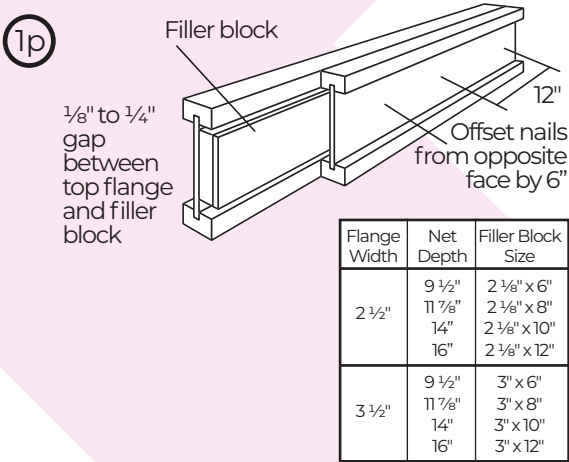
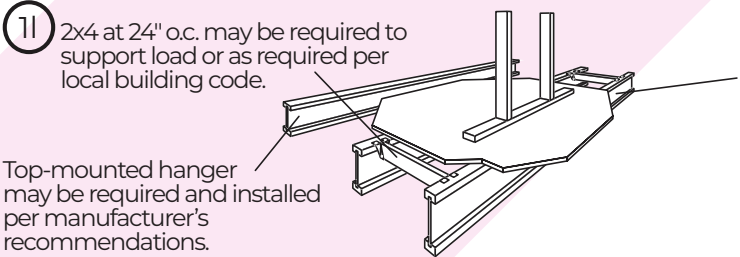
Install hanger per manufacturer's recommendations.



Filler block per Figure 1p

Maximum support capacity = 1280 lbf.

FLOOR INSTALLATION DETAILS - 1l, 1p

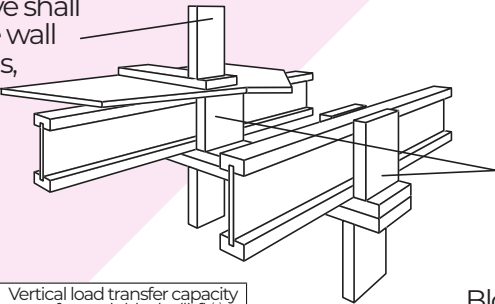


- NOTES:**
1. Support back of I-joist web during nailing to prevent damage to web/flange connection.
 2. Leave a 1/8" gap between top of filler block and bottom of top I-joist flange.
 3. Filler block is required between joists for full length of span.
 4. For flange widths of 2 1/2" or less, nail joists together with two rows of 3" 10d common nails, 12" o.c. (clinched when possible) on each side of the double I-joist (total 4 nails per ft.). For flange widths greater than 2 1/2" use two rows of 3" 10d common nails at 6" o.c. on each side of the double I-joist (total 8 nails per ft.).
 5. The maximum load that may be applied to one side of the double joist using this detail is 620 lb./ft.
 6. For I-joist depths greater than 16 inches, please contact your PKjoist representative for details.
 7. Web fill may be omitted for some loading conditions. Please contact your PKjoist representative for details.

FLOOR INSTALLATION DETAILS - 1q

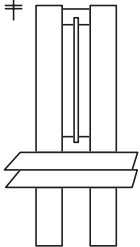
1q

Load bearing wall above shall align vertically with the wall below. Other conditions, such as offset walls, are not covered by this detail.



Squash blocks
(+ 1/16" height
over joist)

+ 1/16" for
squash +
blocks



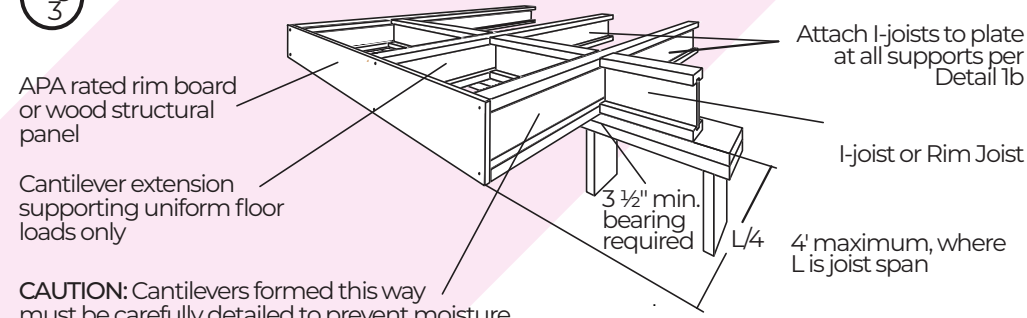
Blocking may be required at intermediate bearing for floor diaphragm. Consult local building regulations. Squash blocks are assumed to be in full bearing on the plate below.

Pair of Squash Blocks	Vertical load transfer capacity pr of squash blocks (lbf) ^(a)	
	3 1/2" wide	5 1/2" wide
2x lumber	3800	5900
1 3/8" APA Rim Board, Rim Board Plus, C1 or better ^(b) or Rated Sturd-I-Floor 32 oc	2800	4400
1" APA Rim Board, C2 or better ^(b) or Rated Sturd-I-Floor 32 oc	1900	3000

FLOOR INSTALLATION DETAILS - Figure 3, 4

Fig. 3

shear capacity = i-joist shear capacity

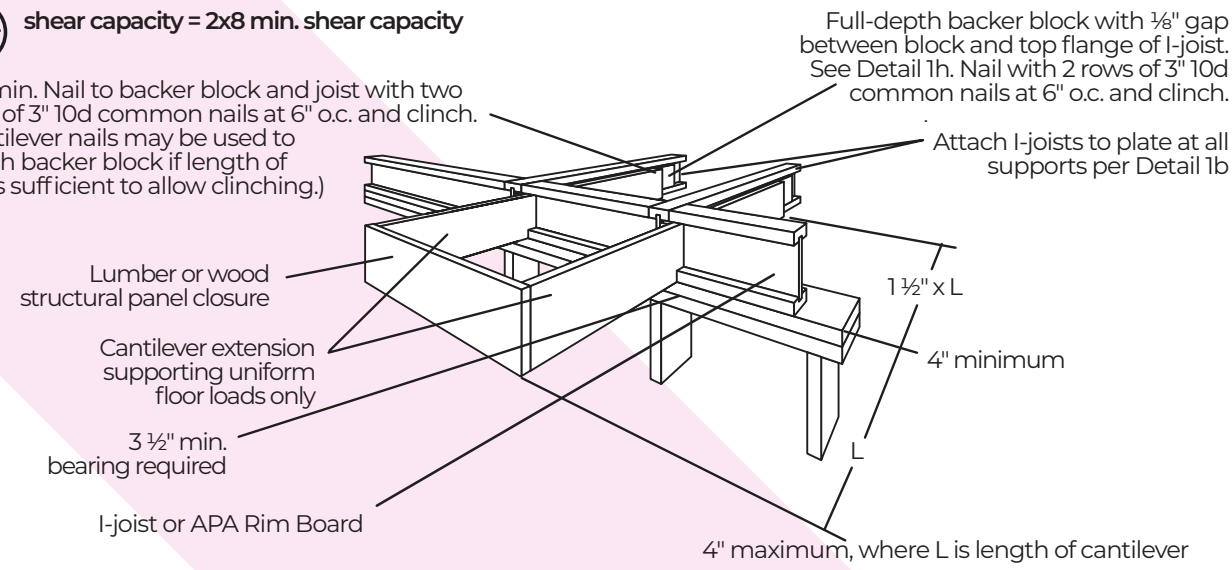


CAUTION: Cantilevers formed this way must be carefully detailed to prevent moisture intrusion into the structure and potential decay of untreated I-joist extensions.

Fig. 4

shear capacity = 2x8 min. shear capacity

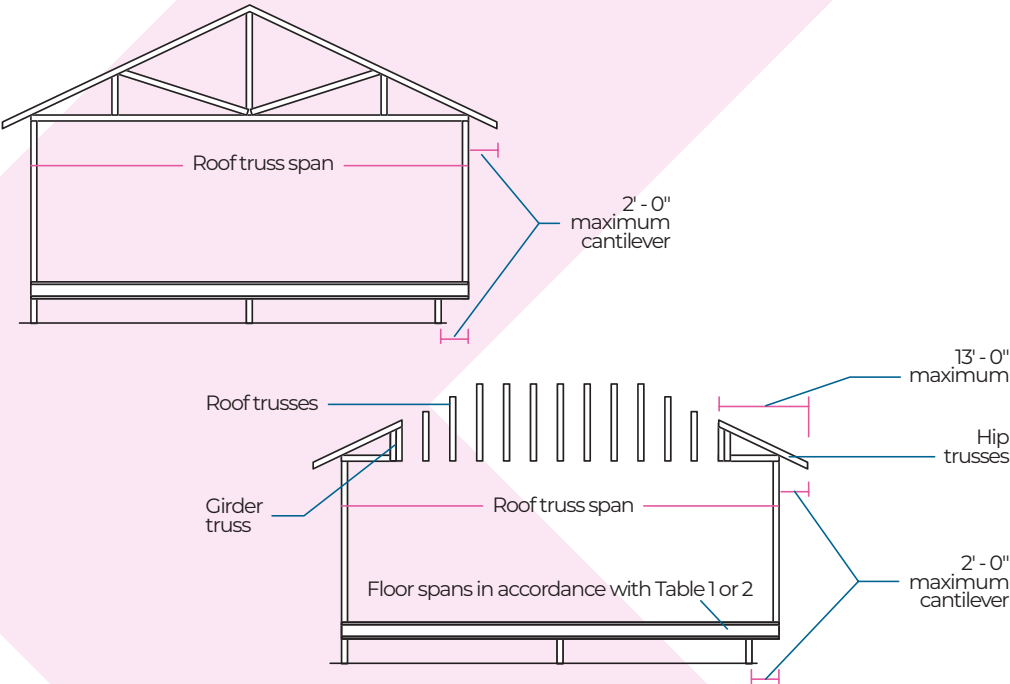
2x8 min. Nail to backer block and joist with two rows of 3" 10d common nails at 6" o.c. and clinch. (Cantilever nails may be used to attach backer block if length of nail is sufficient to allow clinching.)



REINFORCED LOAD BEARING CANTILEVER ILLUSTRATIONS

Note: PKI 20 and 40. Call for additional series.

See Table below for PKI reinforcement requirements at cantilever.



For hip roofs with the hip trusses running parallel to the cantilevered floor joists, the I-Joist reinforcements for a span of 26" shall be permitted to be used.

NOTE: In all roof and floor details, 10d common nails may be used where 10d is specified unless otherwise specified in IAPMO UES ER-431. 8d common nails may be used where 8d is specified unless otherwise specified in IAPMO UES ER-431.

REINFORCED LOAD BEARING CANTILEVER TABLES

Note: **PKI 60L** and **PKI 80L** only. Call for additional series.

Series	Joist Depth (IN)	Roof Truss Span (FT)	Roof Total Load (PSF)								
			35			45			55		
			Joist Spacing (IN)								
			16	19.22	24	16	19.22	24	16	19.22	24
PKI 60L	9 1/2"	24	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	1/WS
		26	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/0	2/WS
		28	0/0	0/0	0/0	0/0	0/0	1/WS	0/0	0/WS	X/WS
		30	0/0	0/0	0/0	0/0	0/0	2/WS	0/0	1/WS	X/WS
		32	0/0	0/0	0/WS	0/0	0/0	2/WS	0/0	1/WS	X/WS
		34	0/0	0/0	1/WS	0/0	0/WS	X/WS	0/WS	2/WS	X/WS
		36	0/0	0/0	1/WS	0/0	1/WS	X/WS	1/WS	X/WS	X/WS
		38	0/0	0/0	1/WS	0/0	1/WS	X/WS	1/WS	X/WS	X/WS
	40	0/0	0/0	2/WS	0/0	2/WS	X/WS	2/WS	X/WS	X/WS	
	11 3/8"	24	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/WS
		26	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/0	1/WS
		28	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/WS	1/WS
		30	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/WS	2/WS
		32	0/0	0/0	0/WS	0/0	0/0	1/WS	0/WS	0/WS	2/WS
		34	0/0	0/0	0/WS	0/0	0/WS	1/WS	0/WS	1/WS	X/WS
		36	0/0	0/0	0/WS	0/0	0/WS	2/WS	0/WS	1/WS	X/WS
		38	0/0	0/0	0/WS	0/0	0/WS	2/WS	0/WS	2/WS	X/WS
	40	0/0	0/0	1/WS	0/0	0/WS	X/WS	0/WS	2/WS	X/WS	
	14"	24	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/WS
		26	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/0	0/WS
		28	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/WS	0/WS
		30	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/WS	1/WS
		32	0/0	0/0	0/WS	0/0	0/0	0/WS	0/0	0/WS	1/WS
		34	0/0	0/0	0/WS	0/0	0/WS	0/WS	0/WS	0/WS	2/WS
		36	0/0	0/0	0/WS	0/0	0/WS	1/WS	0/WS	0/WS	2/WS
		38	0/0	0/0	0/WS	0/0	0/WS	1/WS	0/WS	1/WS	X/WS
	40	0/0	0/0	0/WS	0/0	0/WS	2/WS	0/WS	1/WS	X/WS	
	16"	24	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/WS
		26	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/0	0/WS
		28	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/WS	0/WS
		30	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/WS	0/WS
		32	0/0	0/0	0/WS	0/0	0/0	0/WS	0/0	0/WS	1/WS
		34	0/0	0/0	0/WS	0/0	0/WS	0/WS	0/WS	0/WS	2/WS
		36	0/0	0/0	0/WS	0/0	0/WS	0/WS	0/WS	0/WS	2/WS
		38	0/0	0/0	0/WS	0/0	0/WS	0/WS	0/WS	0/WS	2/WS
	40	0/0	0/0	0/WS	0/0	0/WS	0/WS	0/WS	0/WS	2/WS	

Table Legend:

- 0 = No reinforcement required.
- 1 = PKI's reinforced with 23/2 Performance Category wood structural panel on one side only.
- 2 = PKI's reinforced with 23/2 Performance Category wood structural panel on both sides or double I-joist.
- X = Try a deeper joist or closer spacing.
- WS = Install web stiffener each face of joist directly under load bearing wall above.

Notes:

- Maximum load shall be 15 psf roof dead load, 55 psf roof live load, and 100 plf wall load. Wall load is based on 3'-0" maximum width window or door openings. For larger openings, or multiple 3'-0" width opening spaced less than 6'-0", additional joists beneath the openings trimmer studs may be required.
- Maximum length of cantilever shall be 2'-0".
- Table applies to joists 16" to 24".
- Joists spaced at 12" o.c. require no shear reinforcement installed on sides of joist. However, if the combination of total roof load, wall load, and floor load applied to the cantilever portion of the joist exceeds 1500 lbf, install web stiffener each face of the joist directly under the load bearing wall above.
- For conventional roof construction where the roof is framed using a ridge beam, the Roof Truss Span dimension in the table is equivalent to the horizontal distance between the supporting wall and the ridge beam.

Series	Joist Depth (IN)	Roof Truss Span (FT)	Roof Total Load (PSF)								
			35			45			55		
			Joist Spacing (IN)								
			16	19.22	24	16	19.22	24	16	19.22	24
PKI 80L	9 1/2"	24	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	1/WS
		26	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/0	2/WS
		28	0/0	0/0	0/0	0/0	0/0	1/WS	0/0	0/0	X/WS
		30	0/0	0/0	0/0	0/0	0/0	1/WS	0/0	1/WS	X/WS
		32	0/0	0/0	0/WS	0/0	0/0	2/WS	0/0	1/WS	X/WS
		34	0/0	0/0	0/WS	0/0	0/WS	X/WS	0/WS	2/WS	X/WS
		36	0/0	0/0	1/WS	0/0	1/WS	X/WS	0/WS	X/WS	X/WS
		38	0/0	0/0	1/WS	0/0	1/WS	X/WS	1/WS	X/WS	X/WS
	11 3/8"	40	0/0	0/0	2/WS	0/0	2/WS	X/WS	1/WS	X/WS	X/WS
		24	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/WS
		26	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/0	1/WS
		28	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/WS	1/WS
		30	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/WS	2/WS
		32	0/0	0/0	0/WS	0/0	0/0	1/WS	0/0	0/WS	2/WS
		34	0/0	0/0	0/WS	0/0	0/WS	1/WS	0/WS	1/WS	X/WS
		36	0/0	0/0	0/WS	0/0	0/WS	2/WS	0/WS	1/WS	X/WS
	14"	38	0/0	0/0	0/WS	0/0	0/WS	2/WS	0/WS	2/WS	X/WS
		40	0/0	0/0	1/WS	0/0	0/WS	X/WS	0/WS	2/WS	X/WS
		24	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/WS
		26	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/0	0/WS
		28	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/WS	0/WS
		30	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/WS	1/WS
		32	0/0	0/0	0/WS	0/0	0/0	0/WS	0/0	0/WS	1/WS
		34	0/0	0/0	0/WS	0/0	0/WS	0/WS	0/WS	0/WS	2/WS
	16"	36	0/0	0/0	0/WS	0/0	0/WS	1/WS	0/WS	0/WS	2/WS
		38	0/0	0/0	0/WS	0/0	0/WS	1/WS	0/WS	1/WS	X/WS
		40	0/0	0/0	0/WS	0/0	0/WS	2/WS	0/WS	1/WS	X/WS
		24	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/WS
		26	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/0	0/WS
		28	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/WS	0/WS
		30	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/WS	0/WS
		32	0/0	0/0	0/WS	0/0	0/0	0/WS	0/0	0/WS	0/WS
	18"	34	0/0	0/0	0/WS	0/0	0/WS	0/WS	0/WS	0/WS	1/WS
		36	0/0	0/0	0/WS	0/0	0/WS	0/WS	0/WS	0/WS	1/WS
		38	0/0	0/0	0/WS	0/0	0/WS	0/WS	0/WS	0/WS	2/WS
		40	0/0	0/0	0/WS	0/0	0/WS	1/WS	0/WS	0/WS	2/WS
		24	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/WS
		26	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/0	0/WS
		28	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/WS	0/WS
		30	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/WS	0/WS
20"	32	0/0	0/0	0/WS	0/0	0/0	0/WS	0/0	0/WS	0/WS	
	34	0/0	0/0	0/WS	0/0	0/WS	0/WS	0/WS	0/WS	0/WS	
	36	0/0	0/0	0/WS	0/0	0/WS	0/WS	0/WS	0/WS	0/WS	
	38	0/0	0/0	0/WS	0/0	0/WS	0/WS	0/WS	0/WS	1/WS	
	40	0/0	0/0	0/WS	0/0	0/WS	0/WS	0/WS	0/WS	1/WS	
	24	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/WS	
	26	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/0	0/WS	
	28	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/WS	0/WS	
22"	30	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/WS	0/WS	
	32	0/0	0/0	0/WS	0/0	0/0	0/WS	0/0	0/WS	0/WS	
	34	0/0	0/0	0/WS	0/0	0/WS	0/WS	0/WS	0/WS	0/WS	
	36	0/0	0/0	0/WS	0/0	0/WS	0/WS	0/WS	0/WS	0/WS	
	38	0/0	0/0	0/WS	0/0	0/WS	0/WS	0/WS	0/WS	0/WS	
	40	0/0	0/0	0/WS	0/0	0/WS	0/WS	0/WS	0/WS	0/WS	
	24	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/WS	
	26	0/0	0/0	0/0	0/0	0/0	0/WS	0/0	0/0	0/WS	

FLOOR INSTALLATION DETAILS - Figure 5a

Fig.
5a

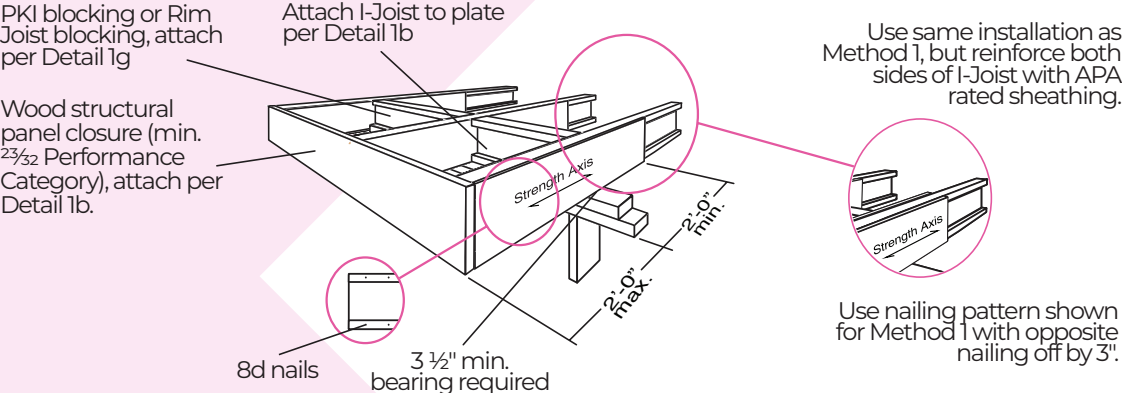
CANTILEVER DETAIL FOR VERTICAL BUILDING OFFSET

Method 1 Sheathing Reinforcement One Side

Shear Capacity = i-Joist shear capacity + $2\frac{3}{32}$ " OSB's

Method 2 Sheathing Reinforcement Two Sides

Shear Capacity = i-Joist shear capacity
(2) $2\frac{3}{32}$ " OSB's



APA RATED SHEATHING 48/24 OR APA RATED STURD-I-FLOOR 24 o.c. (min. $2\frac{3}{32}$ Performance Category) required on sides of joist. Depth shall match the fill height of the joist. Nail with $2\frac{1}{2}$ " 8d common nails at 6" o.c., top and bottom flange. Install with face grain horizontal. Attach I-Joist to plate at all supports per Detail 1b.

Notes:

- 1: Maximum load shall be : 15 psf roof dead load, 55 psf floor total load, and 80 plf wall load. Wall load is based on 3' - 0" maximum width window or door openings. For larger openings, or multiple 3' - 0" width opening spaced less than 6' - 0" o.c., additional joists beneath the opening's cripple studs may be required.
- 2: For conventional roof construction using a ridge beam, the Roof Truss Span column above is equivalent to the distance between the supporting wall and the ridge beam. When the roof is framed using a ridge board, the Roof Truss Span is equivalent to the distance between the supporting walls as if a truss is used.
- 3: Joists spaced at 12" o.c. require no reinforcement.

FLOOR INSTALLATION DETAILS - Figure 5b

Fig.
5b

CANTILEVER DETAIL FOR VERTICAL BUILDING OFFSET

Alternative Method 2 Double I-Joist

Shear Capacity = (2) I-Joist shear capacity

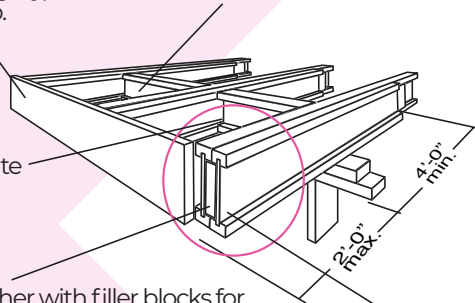
Rim Joist, or wood structural panel closure (min. $2\frac{3}{32}$ Performance Category), attach per Detail 1b.

PKI blocking panel or Rim Joist blocking, attach per Detail 1g

Attach I-Joist to plate per Detail 1b

Block I-Joists together with filler blocks for the full length of the reinforcement. For I-Joist flange widths greater than 3" place an additional row of 3" 10d common nails along the centerline of the reinforcing panel from each side. Clinch when possible.

Face nail two rows 3" 10d common nails at 12" o.c. each side through one I-Joist web and the filler block to the other I-Joist web. Offset nails from opposite face by 6". Clinch if possible (four nails/ft. required).



Notes:

- 1: Maximum load shall be: 15 psf roof dead load, 55 psf floor total load, and 80 plf wall load. Wall load is based on 3' - 0" maximum width window or door openings. For larger openings, or multiple 3' - 0" width opening spaced less than 6' - 0" o.c., additional joists beneath the opening's cripple studs may be required.
- 2: For conventional roof construction using a ridge beam, the Roof Truss Span column above is equivalent to the distance between the supporting wall and the ridge beam. When the roof is framed using a ridge board, the Roof Truss Span is equivalent to the distance between the supporting walls as if a truss is used.
- 3: Joists spaced at 12" o.c. require no reinforcement.

ROOF SPAN TABLES

GENERAL NOTES FOR ROOF SPAN TABLES:

Values shown are maximum allowable span capacities based on the following assumptions:

- Simple span; horizontal clear distance between supports.
- Uniformly loaded conditions with minimum 1 ½" bearing length and no webstiffeners. Other capacities may be possible with different criteria; contact your PK-USA representative.
- Positive drainage in roof applications (minimum ¼" per foot slope).
- Composite action with horizontal diaphragm sheathing is not considered for joist deflection.
- Roof Live Load deflection limit is L/240.
- Roof Total Load deflection limit is L/180 with no finished ceiling attached to the rafters.
- For multi-span joist design, analyze using Simpson Strong Tie or MiTek software.
- Allowable spans and loads shall be adjusted and checked for wind loads as required by local building code.

PKI 60L ROOF SPAN TABLE

115% and 125% Load Duration. Maximum clear span in feet and inches, based on horizontal spans.

	LL (psf)	DL (psf)		PKI 60L-10				PKI 60L-12				PKI 60L-14				PKI 60L-16			
				¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12
No Snow 125%	20	10	12" o.c.	26'-3"	25'-8"	24'-2"	22'-5"	31'-2"	30'-5"	28'-9"	26'-8"	35'-4"	34'-7"	32'-7"	30'-3"	39'-2"	38'-3"	36'-1"	33'-5"
	20	15		24'-11"	24'-3"	22'-10"	21'-0"	29'-7"	28'-10"	27'-1"	25'-0"	33'-7"	32'-9"	30'-9"	28'-4"	37'-2"	36'-3"	34'-0"	31'-5"
	20	20		23'-9"	23'-2"	21'-8"	19'-11"	28'-3"	27'-6"	25'-9"	23'-8"	32'-1"	31'-3"	29'-3"	26'-10"	35'-6"	34'-7"	32'-4"	29'-9"
Snow 115%	25	10		24'-11"	24'-4"	23'-0"	21'-5"	29'-7"	28'-11"	27'-4"	25'-5"	33'-7"	32'-10"	31'-0"	28'-10"	37'-2"	36'-4"	34'-4"	31'-11"
	25	15		23'-9"	23'-3"	21'-10"	20'-3"	28'-3"	27'-7"	25'-11"	24'-0"	32'-1"	31'-4"	29'-6"	27'-3"	35'-6"	34'-8"	32'-7"	30'-2"
	25	20		22'-10"	22'-3"	20'-11"	19'-3"	27'-1"	26'-5"	24'-10"	22'-11"	30'-9"	30'-0"	28'-2"	26'-0"	34'-0"	33'-3"	31'-2"	28'-9"
	30	10		23'-9"	23'-3"	22'-0"	20'-7"	28'-3"	27'-8"	26'-2"	24'-5"	32'-1"	31'-4"	29'-8"	27'-8"	35'-6"	34'-9"	32'-10"	30'-8"
	30	15		22'-10"	22'-4"	21'-0"	19'-6"	27'-1"	26'-6"	25'-0"	23'-2"	30'-9"	30'-1"	28'-4"	26'-4"	34'-0"	33'-3"	31'-5"	29'-2"
	30	20		22'-0"	21'-6"	20'-2"	18'-8"	26'-2"	25'-6"	24'-0"	22'-2"	29'-8"	29'-0"	27'-3"	25'-2"	32'-3"	31'-10"	30'-2"	27'-11"
	40	10		21'-6"	21'-2"	20'-4"	19'-2"	25'-7"	25'-2"	24'-1"	22'-9"	29'-0"	28'-7"	27'-4"	25'-10"	32'-2"	31'-7"	30'-4"	28'-7"
	40	15		21'-4"	20'-10"	19'-9"	18'-4"	25'-4"	24'-9"	23'-5"	21'-10"	28'-9"	28'-1"	26'-7"	24'-9"	30'-9"	30'-6"	29'-5"	27'-5"
	40	20		20'-8"	20'-2"	19'-1"	17'-8"	24'-7"	24'-0"	22'-8"	21'-0"	27'-6"	27'-3"	25'-8"	23'-10"	29'-5"	29'-2"	28'-5"	26'-5"
	50	10		19'-11"	19'-7"	18'-9"	17'-10"	23'-8"	23'-3"	22'-4"	21'-2"	26'-10"	26'-5"	25'-4"	24'-1"	29'-5"	29'-3"	28'-1"	26'-7"
	50	15		19'-11"	19'-7"	18'-8"	17'-5"	23'-8"	23'-3"	22'-2"	20'-9"	26'-5"	26'-3"	25'-2"	23'-6"	28'-3"	28'-1"	27'-7"	26'-0"
	50	20		19'-7"	19'-2"	18'-1"	16'-10"	23'-3"	22'-9"	21'-6"	20'-1"	25'-5"	25'-3"	24'-5"	22'-9"	27'-2"	27'-0"	26'-5"	25'-2"
No Snow 125%	20	10	16" o.c.	23'-9"	23'-3"	21'-11"	20'-4"	28'-3"	27'-7"	26'-0"	24'-2"	32'-1"	31'-4"	29'-6"	27'-5"	35'-6"	34'-8"	32'-8"	30'-4"
	20	15		22'-6"	22'-0"	20'-8"	19'-1"	26'-9"	26'-2"	24'-6"	22'-8"	30'-5"	29'-8"	27'-10"	25'-8"	33'-8"	32'-10"	30'-10"	28'-5"
	20	20		21'-6"	21'-0"	19'-8"	18'-1"	25'-7"	24'-11"	23'-4"	21'-5"	29'-0"	28'-3"	26'-6"	24'-4"	32'-2"	31'-4"	29'-4"	26'-11"
Snow 115%	25	10		22'-6"	22'-1"	20'-10"	19'-5"	26'-9"	26'-2"	24'-9"	23'-1"	30'-5"	29'-9"	28'-1"	26'-2"	33'-4"	32'-11"	31'-1"	28'-11"
	25	15		21'-6"	21'-0"	19'-9"	18'-4"	25'-7"	25'-0"	23'-6"	21'-9"	29'-0"	28'-4"	26'-8"	24'-9"	31'-2"	30'-11"	29'-7"	27'-4"
	25	20		20'-8"	20'-2"	18'-11"	17'-5"	24'-7"	23'-11"	22'-6"	20'-9"	27'-6"	27'-2"	25'-6"	23'-6"	29'-5"	29'-0"	28'-2"	26'-1"
	30	10		21'-6"	21'-1"	19'-11"	18'-7"	25'-7"	25'-0"	23'-8"	22'-1"	29'-0"	28'-5"	26'-11"	25'-1"	31'-2"	31'-0"	29'-9"	27'-9"
	30	15		20'-8"	20'-2"	19'-1"	17'-8"	24'-7"	24'-0"	22'-8"	21'-0"	27'-6"	27'-3"	25'-8"	23'-10"	29'-5"	29'-2"	28'-5"	26'-5"
	30	20		19'-11"	19'-5"	18'-3"	16'-11"	23'-8"	23'-1"	21'-9"	20'-1"	26'-1"	25'-9"	24'-8"	22'-10"	27'-10"	27'-7"	26'-10"	25'-3"
	40	10		19'-6"	19'-2"	18'-4"	17'-4"	23'-2"	22'-9"	21'-10"	20'-7"	26'-1"	25'-10"	24'-9"	23'-5"	27'-10"	27'-9"	27'-4"	25'-11"
	40	15		19'-3"	18'-10"	17'-10"	16'-7"	22'-10"	22'-5"	21'-2"	19'-0"	24'-10"	24'-8"	24'-1"	22'-5"	26'-7"	26'-4"	25'-10"	24'-10"
	40	20		18'-8"	18'-3"	17'-3"	16'-0"	21'-10"	21'-7"	20'-6"	19'-0"	23'-9"	23'-7"	23'-0"	21'-7"	25'-5"	25'-2"	24'-7"	23'-10"
	50	10		18'-0"	17'-9"	17'-0"	16'-2"	21'-5"	21'-1"	20'-3"	19'-2"	23'-9"	23'-8"	22'-11"	21'-9"	25'-5"	25'-4"	25'-0"	24'-1"
	50	15		18'-0"	17'-9"	16'-11"	15'-9"	20'-11"	20'-10"	20'-1"	18'-9"	22'-10"	22'-8"	22'-4"	21'-4"	24'-5"	24'-3"	23'-10"	22'-10"
	50	20		17'-8"	17'-4"	16'-5"	15'-3"	20'-2"	20'-0"	19'-6"	18'-2"	22'-0"	21'-10"	21'-5"	20'-7"	23'-3"	22'-11"	22'-0"	20'-9"

PKI 60L ROOF SPAN TABLE 115% and 125% Load Duration. Maximum clear span in feet and inches, based on horizontal spans.

	LL (psf)	DL (psf)		PKI 60L-10				PKI 60L-12				PKI 60L-14				PKI 60L-16			
				¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12
No Snow 125%	20	10	19.2" o.c.	22'-4"	21'-10"	20'-7"	19'-1"	26'-6"	25'-11"	24'-5"	22'-8"	30'-1"	29'-5"	27'-9"	25'-9"	33'-4"	32'-7"	30'-9"	28'-6"
	20	15		21'-2"	20'-8"	19'-5"	17'-11"	25'-2"	24'-6"	23'-1"	21'-3"	28'-7"	27'-10"	26'-2"	24'-2"	31'-7"	30'-10"	28'-11"	26'-9"
	20	20		20'-2"	19'-8"	18'-5"	16'-11"	24'-0"	23'-5"	21'-11"	20'-2"	27'-3"	26'-7"	24'-10"	22'-10"	29'-8"	29'-3"	27'-6"	25'-4"
Snow 115%	25	10		21'-2"	20'-8"	19'-7"	18'-3"	25'-2"	24'-7"	23'-3"	21'-8"	28'-6"	27'-11"	26'-5"	24'-7"	30'-5"	30'-2"	29'-3"	27'-2"
	25	15		20'-2"	19'-9"	18'-7"	17'-2"	24'-0"	23'-5"	22'-1"	20'-5"	26'-7"	26'-4"	25'-1"	23'-3"	28'-5"	28'-2"	27'-5"	25'-8"
	25	20		19'-5"	18'-11"	17'-9"	16'-4"	23'-0"	22'-6"	21'-1"	19'-6"	25'-1"	24'-9"	24'-0"	22'-1"	26'-10"	26'-6"	25'-8"	24'-6"
	30	10		20'-2"	19'-9"	18'-9"	17'-6"	24'-0"	23'-6"	22'-3"	20'-9"	26'-7"	26'-5"	25'-3"	23'-7"	28'-5"	28'-3"	27'-9"	26'-1"
	30	15		19'-5"	18'-11"	17'-11"	16'-7"	23'-0"	22'-6"	21'-3"	19'-9"	25'-1"	24'-10"	24'-2"	22'-5"	26'-10"	26'-7"	25'-11"	24'-10"
	30	20		18'-8"	18'-3"	17'-2"	15'-10"	21'-10"	21'-7"	20'-5"	18'-10"	23'-9"	23'-6"	22'-10"	21'-5"	25'-5"	25'-2"	24'-5"	23'-3"
	40	10		18'-3"	18'-0"	17'-3"	16'-3"	21'-9"	21'-4"	20'-6"	19'-4"	23'-9"	23'-8"	23'-3"	22'-0"	25'-5"	25'-3"	24'-11"	24'-4"
	40	15		18'-1"	17'-8"	16'-9"	15'-7"	20'-9"	20'-8"	19'-11"	18'-7"	22'-8"	22'-6"	22'-1"	21'-1"	24'-3"	24'-1"	23'-5"	22'-2"
	40	20		17'-6"	17'-2"	16'-2"	15'-0"	19'-11"	19'-9"	19'-3"	17'-10"	21'-8"	21'-6"	21'-0"	19'-10"	22'-7"	22'-2"	21'-2"	19'-10"
	50	10		16'-11"	16'-7"	15'-11"	15'-2"	19'-11"	19'-9"	19'-0"	18'-0"	21'-8"	21'-7"	21'-4"	20'-5"	22'-7"	22'-5"	21'-10"	21'-1"
	50	15		16'-10"	16'-7"	15'-10"	14'-10"	19'-1"	19'-0"	18'-8"	17'-7"	20'-10"	20'-7"	19'-11"	19'-0"	20'-10"	20'-7"	19'-11"	19'-0"
	50	20		16'-3"	16'-1"	15'-4"	14'-4"	18'-5"	18'-3"	17'-11"	17'-0"	19'-4"	19'-0"	18'-3"	17'-3"	19'-4"	19'-0"	18'-3"	17'-3"
No Snow 125%	20	10	24" o.c.	20'-8"	20'-2"	19'-1"	17'-8"	24'-7"	24'-0"	22'-8"	21'-0"	27'-10"	27'-3"	25'-8"	23'-10"	30'-8"	30'-2"	28'-5"	26'-5"
	20	15		19'-7"	19'-1"	17'-11"	16'-7"	23'-3"	22'-8"	21'-4"	19'-8"	26'-5"	25'-9"	24'-3"	22'-4"	28'-4"	28'-0"	26'-10"	24'-9"
	20	20		18'-8"	18'-3"	17'-1"	15'-8"	22'-3"	21'-8"	20'-3"	18'-8"	24'-10"	24'-6"	23'-0"	21'-2"	26'-6"	26'-2"	24'-8"	22'-6"
Snow 115%	25	10		19'-7"	19'-2"	18'-1"	16'-10"	23'-3"	22'-9"	21'-6"	20'-1"	25'-5"	25'-3"	24'-5"	22'-9"	27'-2"	27'-0"	26'-5"	25'-2"
	25	15		18'-8"	18'-3"	17'-2"	15'-11"	21'-10"	21'-7"	20'-5"	18'-11"	23'-9"	23'-6"	22'-11"	21'-6"	25'-5"	25'-2"	24'-6"	23'-6"
	25	20		17'-11"	17'-6"	16'-5"	15'-2"	20'-7"	20'-4"	19'-6"	18'-0"	22'-5"	22'-2"	21'-5"	20'-4"	23'-11"	23'-7"	22'-1"	20'-4"
	30	10		18'-8"	18'-4"	17'-4"	16'-2"	21'-10"	21'-8"	20'-7"	19'-3"	23'-9"	23'-7"	23'-2"	21'-10"	25'-5"	25'-3"	24'-10"	24'-2"
	30	15		17'-11"	17'-6"	16'-7"	15'-4"	20'-7"	20'-4"	19'-8"	18'-3"	22'-5"	22'-2"	21'-8"	20'-9"	23'-11"	23'-9"	22'-7"	21'-2"
	30	20		17'-2"	16'-10"	15'-10"	14'-8"	19'-6"	19'-3"	18'-9"	17'-6"	21'-3"	21'-0"	20'-0"	18'-7"	21'-8"	21'-3"	20'-0"	18'-7"
	40	10		16'-11"	16'-7"	15'-11"	15'-1"	19'-6"	19'-5"	19'-0"	17'-11"	21'-3"	21'-2"	20'-10"	20'-0"	21'-8"	21'-5"	20'-10"	20'-0"
	40	15		16'-4"	16'-3"	15'-6"	14'-5"	18'-7"	18'-5"	18'-1"	17'-2"	19'-8"	19'-5"	18'-8"	17'-8"	19'-8"	19'-5"	18'-8"	17'-8"
	40	20		15'-8"	15'-6"	14'-11"	13'-11"	17'-9"	17'-7"	16'-10"	15'-9"	18'-0"	17'-8"	16'-10"	15'-9"	18'-0"	17'-8"	16'-10"	15'-9"
	50	10		15'-7"	15'-4"	14'-9"	14'-0"	17'-9"	17'-8"	17'-6"	16'-8"	18'-0"	17'-10"	17'-5"	16'-10"	18'-0"	17'-10"	17'-5"	16'-10"
	50	15		15'-0"	14'-11"	14'-8"	13'-8"	16'-7"	16'-5"	15'-10"	15'-1"	16'-7"	16'-5"	15'-10"	15'-1"	16'-7"	16'-5"	15'-10"	15'-1"
	50	20		14'-6"	14'-4"	14'-1"	13'-3"	15'-5"	15'-2"	14'-6"	13'-9"	15'-5"	15'-2"	14'-6"	13'-9"	15'-5"	15'-2"	14'-6"	13'-9"

PKI 70L ROOF SPAN TABLE 115% and 125% Load Duration. Maximum clear span in feet and inches, based on horizontal spans.

	LL (psf)	DL (psf)	PKI 70L-10				PKI 70L-12				PKI 70L-14				PKI 70L-16			
			¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12
No Snow 125%	20	10	27'-5"	26'-9"	25'-3"	23'-5"	32'-7"	31'-10"	30'-1"	27'-11"	37'-0"	36'-2"	34'-2"	31'-8"	41'-0"	40'-1"	37'-9"	35'-1"
	20	15	26'-0"	25'-4"	23'-10"	22'-0"	30'-11"	30'-2"	28'-4"	26'-2"	35'-2"	34'-3"	32'-2"	29'-8"	38'-11"	37'-11"	35'-7"	32'-10"
	20	20	24'-10"	24'-2"	22'-8"	20'-10"	29'-7"	28'-9"	26'-11"	24'-9"	33'-7"	32'-8"	30'-7"	28'-2"	37'-2"	36'-2"	33'-11"	31'-2"
Snow 115%	25	10	26'-0"	25'-5"	24'-0"	22'-4"	30'-11"	30'-3"	28'-7"	26'-7"	35'-2"	34'-4"	32'-6"	30'-3"	38'-11"	38'-0"	35'-11"	33'-5"
	25	15	24'-10"	24'-3"	22'-10"	21'-1"	29'-7"	28'-10"	27'-2"	25'-2"	33'-7"	32'-9"	30'-10"	28'-7"	37'-2"	36'-3"	34'-2"	31'-7"
	25	20	23'-10"	23'-3"	21'-10"	20'-1"	28'-4"	27'-8"	26'-0"	23'-11"	32'-3"	31'-5"	29'-6"	27'-2"	35'-8"	34'-10"	32'-8"	30'-1"
	30	10	24'-10"	24'-4"	23'-0"	21'-6"	29'-7"	28'-11"	27'-5"	25'-6"	33'-7"	32'-10"	31'-1"	29'-0"	37'-2"	36'-4"	34'-5"	32'-1"
	30	15	23'-10"	23'-4"	22'-0"	20'-5"	28'-4"	27'-9"	26'-2"	24'-3"	32'-3"	31'-6"	29'-9"	27'-7"	35'-8"	34'-10"	32'-11"	30'-6"
	30	20	23'-0"	22'-5"	21'-1"	19'-6"	27'-4"	26'-8"	25'-1"	23'-3"	31'-1"	30'-4"	28'-6"	26'-5"	34'-4"	33'-7"	31'-7"	29'-2"
	40	10	22'-6"	22'-1"	21'-2"	20'-0"	26'-9"	26'-4"	25'-3"	23'-10"	30'-5"	29'-11"	28'-8"	27'-1"	33'-8"	33'-1"	31'-9"	29'-11"
	40	15	22'-3"	21'-9"	20'-7"	19'-2"	26'-6"	25'-11"	24'-6"	22'-10"	30'-1"	29'-5"	27'-10"	25'-11"	32'-9"	32'-6"	30'-10"	28'-9"
	40	20	21'-7"	21'-1"	19'-11"	18'-6"	25'-8"	25'-1"	23'-8"	22'-0"	29'-2"	28'-6"	26'-11"	25'-0"	31'-4"	31'-1"	29'-10"	27'-8"
	50	10	20'-10"	20'-5"	19'-7"	18'-7"	24'-9"	24'-4"	23'-4"	22'-2"	28'-2"	27'-8"	26'-7"	25'-2"	31'-2"	30'-8"	29'-5"	27'-11"
	50	15	20'-10"	20'-5"	19'-6"	18'-2"	24'-9"	24'-4"	23'-2"	21'-8"	28'-2"	27'-8"	26'-4"	24'-8"	30'-1"	29'-11"	29'-2"	27'-3"
	50	20	20'-5"	20'-0"	18'-11"	17'-7"	24'-4"	23'-10"	22'-6"	21'-0"	27'-1"	26'-11"	25'-7"	23'-10"	29'-0"	28'-9"	28'-2"	26'-5"
No Snow 125%	20	10	24'-10"	24'-3"	22'-11"	21'-3"	29'-7"	28'-10"	27'-3"	25'-3"	33'-7"	32'-10"	30'-11"	28'-8"	37'-2"	36'-4"	34'-3"	31'-9"
	20	15	23'-6"	23'-0"	21'-7"	19'-11"	28'-0"	27'-4"	25'-8"	23'-8"	31'-10"	31'-1"	29'-2"	26'-11"	35'-3"	34'-5"	32'-3"	29'-10"
	20	20	22'-6"	21'-11"	20'-6"	18'-10"	26'-9"	26'-1"	24'-5"	22'-5"	30'-5"	29'-7"	27'-9"	25'-6"	33'-8"	32'-9"	30'-8"	28'-3"
Snow 115%	25	10	23'-6"	23'-0"	21'-9"	20'-3"	28'-0"	27'-5"	25'-11"	24'-1"	31'-10"	31'-2"	29'-5"	27'-5"	35'-3"	34'-6"	32'-7"	30'-4"
	25	15	22'-6"	21'-11"	20'-8"	19'-2"	26'-9"	26'-2"	24'-7"	22'-9"	30'-5"	29'-8"	27'-11"	25'-11"	33'-3"	32'-10"	30'-11"	28'-8"
	25	20	21'-7"	21'-1"	19'-9"	18'-3"	25'-8"	25'-1"	23'-6"	21'-8"	29'-2"	28'-6"	26'-9"	24'-8"	31'-4"	31'-0"	29'-7"	27'-3"
	30	10	22'-6"	22'-0"	20'-10"	19'-5"	26'-9"	26'-2"	24'-10"	23'-2"	30'-5"	29'-9"	28'-2"	26'-4"	33'-3"	32'-11"	31'-2"	29'-1"
	30	15	21'-7"	21'-1"	19'-11"	18'-6"	25'-8"	25'-1"	23'-8"	22'-0"	29'-2"	28'-6"	26'-11"	25'-0"	31'-4"	31'-1"	29'-10"	27'-8"
	30	20	20'-10"	20'-4"	19'-1"	17'-8"	24'-9"	24'-2"	22'-9"	21'-0"	27'-10"	27'-6"	25'-10"	23'-11"	29'-9"	29'-5"	28'-7"	26'-6"
	40	10	20'-4"	20'-0"	19'-2"	18'-1"	24'-3"	23'-10"	22'-10"	21'-7"	27'-6"	27'-1"	26'-0"	24'-6"	29'-9"	29'-7"	28'-9"	27'-2"
	40	15	20'-1"	19'-8"	18'-8"	17'-4"	23'-11"	23'-5"	22'-2"	20'-8"	26'-6"	26'-4"	25'-3"	23'-6"	28'-4"	28'-1"	27'-7"	26'-0"
	40	20	19'-6"	19'-1"	18'-0"	16'-9"	23'-3"	22'-9"	21'-5"	19'-11"	25'-4"	25'-2"	24'-4"	22'-8"	27'-1"	26'-10"	26'-3"	25'-1"
	50	10	18'-10"	18'-6"	17'-9"	16'-10"	22'-5"	22'-0"	21'-2"	20'-1"	25'-4"	25'-0"	24'-0"	22'-10"	27'-1"	27'-0"	26'-7"	25'-3"
	50	15	18'-10"	18'-6"	17'-8"	16'-6"	22'-4"	22'-0"	21'-0"	19'-7"	24'-4"	24'-2"	23'-10"	22'-4"	26'-0"	25'-11"	25'-5"	24'-8"
	50	20	18'-6"	18'-1"	17'-1"	15'-11"	21'-6"	21'-4"	20'-5"	19'-0"	23'-5"	23'-3"	22'-10"	21'-7"	25'-1"	24'-11"	24'-5"	23'-8"

PKI 70L ROOF SPAN TABLE 115% and 125% Load Duration. Maximum clear span in feet and inches, based on horizontal spans.

	LL (psf)	DL (psf)		PKI 70L-10				PKI 70L-12				PKI 70L-14				PKI 70L-16			
				¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12
No Snow 125%	20	10	19'2" o.c.	23'-4"	22'-9"	21'-6"	19'-11"	27'-9"	27'-1"	25'-7"	23'-9"	31'-6"	30'-10"	29'-1"	27'-0"	34'-11"	34'-1"	32'-2"	29'-10"
	20	15		22'-1"	21'-7"	20'-3"	18'-8"	26'-4"	25'-8"	24'-1"	22'-3"	29'-11"	29'-2"	27'-5"	25'-3"	33'-1"	32'-3"	30'-4"	28'-0"
	20	20		21'-1"	20'-7"	19'-3"	17'-8"	25'-1"	24'-6"	22'-11"	21'-1"	28'-6"	27'-10"	26'-1"	23'-11"	31'-7"	30'-9"	28'-10"	26'-6"
Snow 115%	25	10		22'-1"	21'-7"	20'-5"	19'-0"	26'-4"	25'-9"	24'-4"	22'-8"	29'-11"	29'-3"	27'-8"	25'-9"	32'-5"	32'-2"	30'-7"	28'-6"
	25	15		21'-1"	20'-7"	19'-5"	18'-0"	25'-1"	24'-6"	23'-1"	21'-5"	28'-4"	27'-10"	26'-3"	24'-4"	30'-4"	30'-0"	29'-1"	26'-11"
	25	20		20'-3"	19'-9"	18'-6"	17'-1"	24'-1"	23'-6"	22'-1"	20'-4"	26'-9"	26'-5"	25'-1"	23'-2"	28'-7"	28'-3"	27'-5"	25'-8"
	30	10		21'-1"	20'-8"	19'-7"	18'-3"	25'-1"	24'-7"	23'-4"	21'-9"	28'-4"	27'-11"	26'-6"	24'-8"	30'-4"	30'-2"	29'-4"	27'-4"
	30	15		20'-3"	19'-9"	18'-8"	17'-4"	24'-1"	23'-7"	22'-3"	20'-8"	26'-9"	26'-6"	25'-3"	23'-6"	28'-7"	28'-4"	27'-8"	26'-0"
	30	20		19'-6"	19'-1"	17'-11"	16'-7"	23'-3"	22'-8"	21'-4"	19'-9"	25'-4"	25'-1"	24'-3"	22'-5"	27'-1"	26'-10"	26'-1"	24'-10"
	40	10		19'-1"	18'-9"	18'-0"	17'-0"	22'-9"	22'-4"	21'-5"	20'-3"	25'-4"	25'-3"	24'-4"	23'-0"	27'-1"	27'-0"	26'-7"	25'-6"
	40	15		18'-10"	18'-6"	17'-6"	16'-4"	22'-2"	22'-0"	20'-10"	19'-5"	24'-2"	24'-0"	23'-6"	22'-1"	25'-10"	25'-8"	25'-2"	24'-5"
	40	20		18'-4"	17'-11"	16'-11"	15'-8"	21'-3"	21'-0"	20'-1"	18'-8"	23'-1"	22'-11"	22'-4"	21'-3"	24'-9"	24'-6"	23'-11"	23'-2"
	50	10		17'-7"	17'-4"	16'-8"	15'-10"	21'-0"	20'-8"	19'-10"	18'-10"	23'-0"	23'-0"	22'-7"	21'-5"	24'-9"	24'-7"	24'-4"	23'-9"
	50	15		17'-7"	17'-4"	16'-6"	15'-6"	20'-5"	20'-3"	19'-8"	18'-5"	22'-2"	22'-1"	21'-8"	20'-11"	23'-1"	23'-7"	23'-2"	22'-3"
	50	20		17'-4"	16'-11"	16'-1"	14'-11"	19'-8"	19'-6"	19'-1"	17'-10"	21'-0"	21'-3"	20'-9"	20'-3"	21'-5"	22'-3"	21'-5"	20'-3"
No Snow 125%	20	10	24" o.c.	21'-7"	21'-1"	19'-11"	18'-6"	25'-8"	25'-1"	23'-8"	22'-0"	29'-2"	28'-6"	26'-11"	25'-0"	32'-4"	31'-7"	29'-10"	27'-8"
	20	15		20'-5"	19'-11"	18'-9"	17'-4"	24'-4"	23'-9"	22'-4"	20'-7"	27'-8"	27'-0"	25'-4"	23'-5"	30'-3"	29'-11"	28'-1"	25'-11"
	20	20		19'-6"	19'-0"	17'-10"	16'-5"	23'-3"	22'-8"	21'-3"	19'-6"	26'-5"	25'-9"	24'-1"	22'-2"	28'-3"	27'-11"	26'-8"	24'-7"
Snow 115%	25	10		20'-5"	20'-0"	18'-11"	17'-7"	24'-4"	23'-10"	22'-6"	21'-0"	27'-1"	26'-11"	25'-7"	23'-10"	29'-0"	28'-9"	28'-2"	26'-5"
	25	15		19'-6"	19'-1"	17'-11"	16'-8"	23'-3"	22'-8"	21'-5"	19'-10"	25'-4"	25'-1"	24'-4"	22'-6"	27'-1"	26'-10"	26'-2"	24'-11"
	25	20		18'-9"	18'-3"	17'-2"	15'-10"	21'-11"	21'-8"	20'-5"	18'-10"	23'-11"	23'-7"	22'-10"	21'-5"	25'-7"	25'-3"	24'-6"	23'-5"
	30	10		19'-6"	19'-1"	18'-1"	16'-11"	23'-3"	22'-9"	21'-7"	20'-1"	25'-4"	25'-2"	24'-6"	22'-10"	27'-1"	26'-11"	26'-5"	25'-4"
	30	15		18'-9"	18'-4"	17'-3"	16'-1"	21'-11"	21'-9"	20'-7"	19'-1"	23'-11"	23'-8"	23'-1"	21'-9"	25'-7"	25'-4"	24'-9"	23'-11"
	30	20		18'-0"	17'-7"	16'-7"	15'-4"	20'-9"	20'-7"	19'-9"	18'-3"	22'-8"	22'-5"	21'-9"	20'-9"	24'-1"	24'-0"	23'-3"	21'-9"
	40	10		17'-7"	17'-4"	16'-8"	15'-9"	20'-9"	20'-8"	19'-10"	18'-9"	22'-8"	22'-6"	22'-2"	21'-4"	24'-1"	24'-1"	23'-9"	23'-3"
	40	15		17'-5"	17'-1"	16'-2"	15'-1"	19'-10"	19'-8"	19'-3"	18'-0"	21'-5"	21'-5"	21'-0"	20'-5"	21'-10"	22'-8"	21'-10"	20'-8"
	40	20		16'-8"	16'-6"	15'-7"	14'-6"	18'-10"	18'-9"	18'-4"	17'-3"	19'-7"	20'-4"	19'-9"	18'-6"	20'-0"	20'-8"	19'-9"	18'-6"
	50	10		16'-3"	16'-0"	15'-5"	14'-8"	18'-10"	18'-10"	18'-4"	17'-5"	19'-7"	20'-7"	20'-4"	19'-9"	20'-0"	20'-11"	20'-5"	19'-9"
	50	15		16'-0"	15'-11"	15'-3"	14'-4"	17'-4"	18'-1"	17'-9"	17'-0"	18'-1"	18'-10"	18'-7"	17'-9"	18'-5"	19'-2"	18'-7"	17'-9"
	50	20		15'-5"	15'-4"	14'-10"	13'-10"	16'-1"	16'-9"	17'-0"	16'-1"	16'-9"	17'-5"	17'-1"	16'-1"	17'-1"	17'-9"	17'-1"	16'-1"

PKI 80L ROOF SPAN TABLE 115% and 125% Load Duration. Maximum clear span in feet and inches, based on horizontal spans.

	LL (psf)	DL (psf)		PKI 80L-12				PKI 80L-14				PKI 80L-16				PKI 80L-18			
				¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12
No Snow 125%	20	10	12" o.c.	29'-1"	28'-5"	26'-10"	24'-11"	34'-10"	34'-0"	32'-1"	29'-9"	39'-7"	38'-8"	36'-6"	33'-10"	43'-10"	42'-10"	40'-5"	37'-6"
	20	15		27'-7"	26'-11"	25'-4"	23'-4"	33'-0"	32'-2"	30'-3"	27'-11"	37'-7"	36'-8"	34'-5"	31'-9"	41'-7"	40'-7"	38'-1"	35'-2"
	20	20		26'-4"	25'-8"	24'-1"	22'-1"	31'-6"	30'-9"	28'-9"	26'-5"	35'-10"	34'-11"	32'-9"	30'-1"	39'-9"	38'-9"	36'-3"	33'-4"
Snow 115%	25	10		27'-7"	27'-0"	25'-6"	23'-9"	33'-0"	32'-3"	30'-6"	28'-5"	37'-7"	36'-9"	34'-9"	32'-4"	41'-7"	40'-8"	38'-6"	35'-10"
	25	15		26'-4"	25'-9"	24'-3"	22'-5"	31'-6"	30'-9"	29'-0"	26'-10"	35'-10"	35'-0"	33'-0"	30'-6"	39'-9"	38'-10"	36'-7"	33'-10"
	25	20		25'-4"	24'-8"	23'-2"	21'-4"	30'-3"	29'-6"	27'-9"	25'-7"	34'-5"	33'-7"	31'-6"	29'-1"	38'-2"	37'-3"	34'-11"	32'-3"
	30	10		26'-4"	25'-10"	24'-5"	22'-10"	31'-6"	30'-10"	29'-3"	27'-3"	35'-10"	35'-1"	33'-3"	31'-0"	39'-9"	38'-11"	36'-10"	34'-4"
	30	15		25'-4"	24'-9"	23'-4"	21'-8"	30'-3"	29'-7"	27'-11"	25'-11"	34'-5"	33'-8"	31'-9"	29'-6"	38'-2"	37'-4"	35'-2"	32'-8"
	30	20		24'-5"	23'-10"	22'-5"	20'-9"	29'-2"	28'-6"	26'-10"	24'-9"	33'-3"	32'-5"	30'-6"	28'-2"	36'-10"	35'-11"	33'-10"	31'-3"
	40	10		23'-10"	23'-6"	22'-6"	21'-3"	28'-7"	28'-1"	26'-11"	25'-5"	32'-6"	31'-11"	30'-8"	28'-11"	36'-0"	35'-5"	33'-11"	32'-1"
	40	15		23'-7"	23'-1"	21'-10"	20'-5"	28'-3"	27'-8"	26'-2"	24'-4"	32'-2"	31'-5"	29'-9"	27'-9"	35'-7"	34'-10"	33'-0"	30'-9"
	40	20		22'-11"	22'-5"	21'-2"	19'-7"	27'-5"	26'-9"	25'-3"	23'-6"	31'-2"	30'-6"	28'-9"	26'-9"	34'-7"	33'-9"	31'-11"	29'-7"
	50	10		22'-1"	21'-9"	20'-10"	19'-9"	26'-5"	26'-0"	24'-11"	23'-8"	30'-1"	29'-7"	28'-4"	26'-11"	33'-4"	32'-9"	31'-5"	29'-10"
	50	15		22'-1"	21'-9"	20'-8"	19'-4"	26'-5"	26'-0"	24'-9"	23'-2"	30'-1"	29'-7"	28'-2"	26'-4"	33'-4"	32'-9"	31'-3"	29'-2"
	50	20		21'-8"	21'-3"	20'-1"	18'-9"	26'-0"	25'-5"	24'-0"	22'-5"	29'-7"	28'-11"	27'-4"	25'-6"	32'-9"	32'-1"	30'-4"	28'-3"
No Snow 125%	20	10	12" o.c.	PKI 80L-20				PKI 80L-22											
	20	15		47'-11"	46'-10"	44'-2"	39'-8"	51'-10"	50'-8"	47'-1"	39'-7"								
	20	20		45'-6"	44'-5"	41'-8"	38'-6"	49'-2"	48'-0"	45'-1"	39'-7"								
	25	10		43'-5"	42'-4"	39'-8"	36'-5"	47'-0"	45'-9"	42'-10"	39'-5"								
	25	15		45'-6"	44'-6"	42'-1"	39'-2"	49'-2"	48'-1"	45'-6"	39'-7"								
	25	20		43'-5"	42'-5"	39'-11"	37'-0"	47'-0"	45'-11"	43'-2"	39'-7"								
	30	10		41'-9"	40'-8"	38'-2"	35'-3"	45'-1"	44'-0"	41'-4"	38'-1"								
	30	15		43'-5"	42'-6"	40'-3"	37'-7"	47'-0"	46'-0"	43'-7"	39'-7"								
	30	20		41'-9"	40'-9"	38'-6"	35'-9"	45'-1"	44'-1"	41'-7"	38'-7"								
	40	10		40'-3"	39'-3"	36'-11"	34'-2"	43'-6"	42'-6"	39'-11"	36'-11"								
	40	15		39'-4"	38'-9"	37'-1"	35'-0"	42'-7"	41'-10"	40'-2"	37'-11"								
	40	20		38'-11"	38'-1"	36'-1"	33'-7"	41'-11"	41'-2"	39'-0"	36'-4"								
Snow 115%	50	10		37'-9"	36'-11"	34'-10"	32'-4"	40'-1"	39'-9"	37'-8"	35'-0"								
	50	15		36'-5"	35'-10"	34'-5"	32'-8"	39'-5"	38'-9"	37'-2"	35'-3"								
	50	20		36'-5"	35'-10"	34'-2"	31'-11"	38'-6"	38'-4"	36'-11"	34'-6"								
	50	20		35'-3"	34'-11"	33'-2"	30'-11"	36'-5"	35'-10"	34'-5"	32'-6"								

PKI 80L ROOF SPAN TABLE 115% and 125% Load Duration. Maximum clear span in feet and inches, based on horizontal spans.

	LL (psf)	DL (psf)		PKI 80L-12				PKI 80L-14				PKI 80L-16				PKI 80L-18			
				¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12
No Snow 125%	20	10	16" o.c.	26'-4"	25'-9"	24'-4"	22'-7"	31'-6"	30'-10"	29'-1"	27'-0"	35'-10"	35'-1"	33'-1"	30'-8"	39'-9"	38'-10"	36'-8"	34'-0"
	20	15		25'-0"	24'-5"	22'-11"	21'-2"	29'-11"	29'-2"	27'-5"	25'-3"	34'-0"	33'-2"	31'-2"	28'-9"	37'-9"	36'-9"	34'-7"	31'-11"
	20	20		23'-10"	23'-3"	21'-9"	20'-0"	28'-7"	27'-10"	26'-1"	23'-11"	32'-6"	31'-8"	29'-8"	27'-3"	36'-0"	35'-1"	32'-10"	30'-2"
Snow 115%	25	10		25'-0"	24'-5"	23'-2"	21'-6"	29'-11"	29'-3"	27'-8"	25'-9"	34'-0"	33'-3"	31'-6"	29'-4"	37'-8"	36'-11"	34'-10"	32'-5"
	25	15		23'-10"	23'-4"	21'-11"	20'-4"	28'-7"	27'-11"	26'-3"	24'-4"	32'-6"	31'-9"	29'-11"	27'-8"	36'-0"	35'-2"	33'-1"	30'-8"
	25	20		22'-11"	22'-4"	21'-0"	19'-4"	27'-5"	26'-9"	25'-1"	23'-2"	31'-2"	30'-5"	28'-7"	26'-4"	34'-7"	33'-9"	31'-8"	29'-2"
	30	10		23'-10"	23'-4"	22'-2"	20'-8"	28'-7"	27'-11"	26'-6"	24'-8"	32'-6"	31'-10"	30'-2"	28'-1"	36'-0"	35'-3"	33'-5"	31'-2"
	30	15		22'-11"	22'-5"	21'-2"	19'-7"	27'-5"	26'-9"	25'-3"	23'-6"	31'-2"	30'-6"	28'-9"	26'-9"	34'-7"	33'-9"	31'-11"	29'-7"
	30	20		22'-1"	21'-7"	20'-3"	18'-9"	26'-5"	25'-10"	24'-3"	22'-5"	30'-1"	29'-4"	27'-7"	25'-7"	33'-4"	32'-6"	30'-7"	28'-4"
	40	10		21'-7"	21'-3"	20'-5"	19'-3"	25'-10"	25'-5"	24'-5"	23'-0"	29'-5"	28'-11"	27'-9"	26'-2"	32'-7"	32'-1"	30'-9"	29'-1"
	40	15		21'-4"	20'-11"	19'-9"	18'-5"	25'-7"	25'-0"	23'-8"	22'-1"	29'-1"	28'-6"	26'-11"	25'-1"	32'-3"	31'-7"	29'-10"	27'-10"
	40	20		20'-9"	20'-3"	19'-1"	17'-9"	24'-9"	24'-3"	22'-11"	21'-3"	28'-3"	27'-7"	26'-1"	24'-2"	30'-5"	30'-7"	28'-10"	26'-10"
	50	10		20'-0"	19'-8"	18'-10"	17'-11"	23'-11"	23'-6"	22'-7"	21'-5"	27'-2"	26'-9"	25'-8"	24'-5"	30'-2"	29'-8"	28'-6"	27'-0"
	50	15		20'-0"	19'-8"	18'-9"	17'-6"	23'-11"	23'-6"	22'-5"	20'-11"	27'-2"	26'-9"	25'-6"	23'-10"	28'-1"	29'-0"	28'-0"	26'-5"
	50	20		19'-7"	19'-2"	18'-2"	16'-11"	23'-6"	23'-0"	21'-9"	20'-3"	26'-0"	26'-2"	24'-9"	23'-1"	26'-0"	26'-10"	25'-9"	24'-4"
No Snow 125%	20	10	16" o.c.	PKI 80L-20				PKI 80L-22											
	20	15		43'-5"	42'-6"	40'-1"	37'-2"	47'-0"	45'-11"	43'-4"	39'-7"								
	20	20		41'-3"	40'-3"	37'-9"	34'-10"	44'-7"	43'-6"	40'-10"	37'-8"								
Snow 115%	25	10		39'-4"	38'-4"	35'-11"	33'-0"	42'-7"	41'-6"	38'-10"	35'-8"								
	25	15		41'-3"	40'-4"	38'-1"	35'-6"	44'-7"	43'-7"	41'-3"	38'-4"								
	25	20		39'-4"	38'-5"	36'-2"	33'-6"	42'-7"	41'-7"	39'-2"	36'-3"								
	30	10		37'-9"	36'-10"	34'-7"	31'-11"	40'-1"	39'-8"	37'-5"	34'-6"								
	30	15		39'-4"	38'-6"	36'-6"	34'-1"	42'-7"	41'-8"	39'-6"	36'-10"								
	30	20		37'-9"	36'-11"	34'-10"	32'-4"	40'-1"	39'-9"	37'-8"	35'-0"								
	40	10		36'-1"	35'-7"	33'-6"	30'-11"	38'-1"	37'-5"	35'-5"	32'-9"								
	40	15		35'-8"	35'-1"	33'-7"	31'-9"	38'-1"	37'-10"	36'-4"	34'-4"								
	40	20		34'-5"	34'-2"	32'-8"	30'-5"	34'-9"	34'-3"	32'-11"	31'-2"								
	50	10		31'-10"	31'-3"	29'-10"	27'-11"	31'-10"	31'-3"	29'-10"	27'-11"								
	50	15		29'-4"	29'-0"	28'-0"	26'-9"	29'-4"	29'-0"	28'-0"	26'-9"								
	50	20		27'-3"	26'-10"	25'-9"	24'-4"	27'-3"	26'-10"	25'-9"	24'-4"								

PKI 80L ROOF SPAN TABLE 115% and 125% Load Duration. Maximum clear span in feet and inches, based on horizontal spans.

	LL (psf)	DL (psf)		PKI 80L-12				PKI 80L-14				PKI 80L-16				PKI 80L-18			
				¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12
No Snow 125%	20	10	192" o.c.	24'-9"	24'-2"	22'-10"	21'-2"	29'-7"	28'-11"	27'-4"	25'-4"	33'-8"	32'-11"	31'-1"	28'-10"	37'-4"	36'-6"	34'-5"	31'-11"
	20	15		23'-6"	22'-11"	21'-6"	19'-10"	28'-1"	27'-5"	25'-9"	23'-9"	31'-11"	31'-2"	29'-3"	27'-0"	35'-5"	34'-6"	32'-5"	30'-0"
	20	20		22'-5"	21'-10"	20'-5"	18'-10"	26'-10"	26'-1"	24'-5"	22'-6"	30'-6"	29'-9"	27'-10"	25'-7"	33'-10"	32'-11"	30'-10"	28'-4"
Snow 115%	25	10		23'-6"	23'-0"	21'-9"	20'-3"	28'-1"	27'-6"	26'-0"	24'-2"	31'-11"	31'-3"	29'-7"	27'-6"	35'-5"	34'-8"	32'-9"	30'-6"
	25	15		22'-5"	21'-11"	20'-7"	19'-1"	26'-10"	26'-2"	24'-8"	22'-10"	30'-6"	29'-9"	28'-1"	26'-0"	33'-10"	33'-0"	31'-1"	28'-10"
	25	20		21'-6"	21'-0"	19'-8"	18'-2"	25'-9"	25'-1"	23'-7"	21'-9"	29'-3"	28'-7"	26'-10"	24'-9"	32'-5"	31'-8"	29'-9"	27'-5"
	30	10		22'-5"	21'-11"	20'-9"	19'-5"	26'-10"	26'-3"	24'-10"	23'-2"	30'-6"	29'-10"	28'-3"	26'-5"	33'-10"	33'-1"	31'-4"	29'-3"
	30	15		21'-6"	21'-0"	19'-10"	18'-5"	25'-9"	25'-2"	23'-9"	22'-0"	29'-3"	28'-7"	27'-0"	25'-1"	32'-5"	31'-9"	29'-11"	27'-10"
	30	20		20'-9"	20'-3"	19'-0"	17'-7"	24'-9"	24'-2"	22'-9"	21'-1"	28'-3"	27'-7"	25'-11"	24'-0"	30'-5"	30'-6"	28'-9"	26'-7"
	40	10		20'-3"	19'-11"	19'-1"	18'-1"	24'-3"	23'-10"	22'-11"	21'-7"	27'-7"	27'-2"	26'-1"	24'-7"	30'-5"	30'-1"	28'-10"	27'-3"
	40	15		20'-0"	19'-7"	18'-7"	17'-4"	24'-0"	23'-6"	22'-3"	20'-9"	27'-3"	26'-9"	25'-4"	23'-7"	27'-8"	28'-6"	27'-5"	25'-11"
	40	20		19'-5"	19'-0"	17'-11"	16'-8"	23'-3"	22'-9"	21'-6"	19'-11"	25'-4"	25'-11"	24'-5"	22'-9"	25'-4"	26'-0"	24'-9"	23'-3"
	50	10		18'-9"	18'-5"	17'-8"	16'-10"	22'-5"	22'-1"	21'-2"	20'-1"	25'-4"	25'-1"	24'-1"	22'-11"	25'-4"	26'-3"	25'-7"	24'-9"
	50	15		18'-9"	18'-5"	17'-7"	16'-5"	22'-5"	22'-1"	21'-0"	19'-8"	23'-4"	24'-1"	23'-4"	22'-3"	23'-4"	24'-1"	23'-4"	22'-3"
	50	20		18'-5"	18'-0"	17'-1"	15'-11"	21'-8"	21'-7"	20'-5"	19'-0"	21'-8"	21'-5"	20'-3"	21'-8"	22'-4"	21'-5"	20'-3"	20'-3"
No Snow 125%	20	10	192" o.c.	PKI 80L-20				PKI 80L-22											
	20	15		40'-10"	39'-11"	37'-8"	34'-11"	44'-2"	43'-2"	40'-8"	37'-9"								
	20	20		38'-8"	37'-9"	35'-6"	32'-9"	41'-10"	40'-10"	38'-4"	35'-5"								
Snow 115%	25	10		36'-11"	36'-0"	33'-9"	31'-0"	39'-10"	38'-10"	36'-2"	33'-0"								
	25	15		38'-8"	37'-10"	35'-10"	33'-4"	41'-6"	40'-11"	38'-9"	36'-1"								
	25	20		36'-10"	36'-1"	34'-0"	31'-6"	38'-10"	38'-5"	36'-9"	34'-1"								
	30	10		34'-9"	34'-4"	32'-6"	29'-10"	35'-5"	34'-7"	32'-6"	29'-10"								
	30	15		36'-10"	36'-2"	34'-3"	32'-0"	38'-10"	38'-7"	37'-1"	34'-7"								
	30	20		34'-9"	34'-5"	32'-9"	30'-5"	35'-5"	34'-9"	33'-2"	31'-1"								
	40	10		31'-10"	31'-2"	29'-5"	27'-3"	31'-10"	31'-2"	29'-5"	27'-3"								
	40	15		31'-10"	31'-6"	30'-7"	29'-4"	31'-10"	31'-6"	30'-7"	29'-4"								
	40	20		28'-11"	28'-6"	27'-5"	25'-11"	28'-11"	28'-6"	27'-5"	25'-11"								
	50	10		26'-6"	26'-0"	24'-9"	23'-3"	26'-6"	26'-0"	24'-9"	23'-3"								
	50	15		24'-5"	24'-1"	23'-4"	22'-3"	24'-5"	24'-1"	23'-4"	22'-3"								
	50	20		22'-8"	22'-4"	21'-5"	20'-3"	22'-8"	22'-4"	21'-5"	20'-3"								

PKI 80L ROOF SPAN TABLE 115% and 125% Load Duration. Maximum clear span in feet and inches, based on horizontal spans.

	LL (psf)	DL (psf)		PKI 80L-12				PKI 80L-14				PKI 80L-16				PKI 80L-18			
				¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12
No Snow 125%	20	10	24" o.c.	22'-11"	22'-5"	21'-2"	19'-7"	27'-5"	26'-9"	25'-3"	23'-6"	31'-2"	30'-6"	28'-9"	26'-9"	34'-7"	33'-9"	31'-11"	29'-7"
	20	15		21'-8"	21'-2"	19'-11"	18'-5"	26'-0"	25'-4"	23'-10"	22'-0"	29'-7"	28'-10"	27'-1"	25'-0"	32'-9"	32'-0"	30'-1"	27'-9"
	20	20		20'-9"	20'-2"	18'-11"	17'-5"	24'-9"	24'-2"	22'-8"	20'-10"	28'-3"	27'-6"	25'-9"	23'-8"	31'-3"	30'-6"	28'-7"	26'-3"
Snow 115%	25	10		21'-8"	21'-3"	20'-1"	18'-9"	26'-0"	25'-5"	24'-0"	22'-5"	29'-7"	28'-11"	27'-4"	25'-6"	32'-9"	32'-1"	30'-4"	28'-3"
	25	15		20'-9"	20'-3"	19'-1"	17'-8"	24'-9"	24'-3"	22'-10"	21'-2"	28'-3"	27'-7"	26'-0"	24'-1"	30'-5"	30'-7"	28'-9"	26'-8"
	25	20		19'-10"	19'-5"	18'-3"	16'-10"	23'-9"	23'-2"	21'-10"	20'-1"	27'-1"	26'-5"	24'-10"	22'-11"	27'-0"	27'-7"	25'-11"	23'-10"
	30	10		20'-9"	20'-3"	19'-3"	17'-11"	24'-9"	24'-3"	23'-0"	21'-6"	28'-3"	27'-8"	26'-2"	24'-5"	30'-5"	30'-8"	29'-0"	27'-1"
	30	15		19'-10"	19'-5"	18'-4"	17'-1"	23'-9"	23'-3"	21'-11"	20'-5"	27'-1"	26'-6"	25'-0"	23'-3"	27'-0"	27'-9"	26'-5"	24'-9"
	30	20		19'-2"	18'-8"	17'-7"	16'-4"	22'-11"	22'-5"	21'-1"	19'-6"	24'-3"	24'-10"	23'-6"	21'-9"	24'-3"	24'-10"	23'-6"	21'-9"
	40	10		18'-9"	18'-5"	17'-8"	16'-9"	22'-5"	22'-1"	21'-2"	20'-0"	24'-3"	25'-1"	24'-1"	22'-9"	24'-3"	25'-2"	24'-5"	23'-5"
	40	15		18'-6"	18'-1"	17'-2"	16'-0"	22'-1"	21'-8"	20'-7"	19'-2"	22'-1"	22'-9"	21'-10"	20'-8"	22'-1"	22'-9"	21'-10"	20'-8"
	40	20		17'-11"	17'-7"	16'-7"	15'-5"	20'-2"	20'-9"	19'-9"	18'-5"	20'-2"	20'-9"	19'-9"	18'-6"	20'-2"	20'-9"	19'-9"	18'-6"
	50	10		17'-3"	17'-0"	16'-4"	15'-7"	20'-2"	20'-4"	19'-7"	18'-7"	20'-2"	20'-11"	20'-5"	19'-9"	20'-2"	20'-11"	20'-5"	19'-9"
	50	15		17'-3"	17'-0"	16'-3"	15'-2"	18'-7"	19'-3"	18'-7"	17'-9"	18'-7"	19'-3"	18'-7"	17'-9"	18'-7"	19'-3"	18'-7"	17'-9"
	50	20		17'-0"	16'-7"	15'-9"	14'-8"	17'-3"	17'-9"	17'-1"	16'-1"	17'-3"	17'-9"	17'-1"	16'-1"	17'-3"	17'-9"	17'-1"	16'-1"
No Snow 125%	20	10	24" o.c.	PKI 80L-20				PKI 80L-22											
	20	15		37'-9"	36'-11"	34'-10"	32'-4"	40'-10"	39'-11"	37'-8"	35'-0"								
	20	20		35'-10"	35'-0"	32'-10"	30'-4"	36'-5"	35'-7"	33'-6"	30'-11"								
Snow 115%	25	10		31'-10"	31'-0"	28'-11"	26'-4"	31'-10"	31'-0"	28'-11"	26'-4"								
	25	15		35'-3"	34'-11"	33'-2"	30'-11"	36'-5"	35'-10"	34'-5"	32'-6"								
	25	20		31'-10"	31'-2"	29'-7"	27'-6"	31'-10"	31'-2"	29'-7"	27'-6"								
	30	10		28'-3"	27'-7"	25'-11"	23'-10"	28'-3"	27'-7"	25'-11"	23'-10"								
	30	15		31'-10"	31'-5"	30'-3"	28'-10"	31'-10"	31'-5"	30'-3"	28'-10"								
	30	20		28'-3"	27'-9"	26'-5"	24'-9"	28'-3"	27'-9"	26'-5"	24'-9"								
	40	10		25'-5"	24'-10"	23'-6"	21'-9"	25'-5"	24'-10"	23'-6"	21'-9"								
	40	15		25'-5"	25'-2"	24'-5"	23'-5"	25'-5"	25'-2"	24'-5"	23'-5"								
	40	20		23'-1"	22'-9"	21'-10"	20'-8"	23'-1"	22'-9"	21'-10"	20'-8"								
	50	10		21'-1"	20'-9"	19'-9"	18'-6"	21'-1"	20'-9"	19'-9"	18'-6"								
	50	15		21'-1"	20'-11"	20'-5"	19'-9"	21'-1"	20'-11"	20'-5"	19'-9"								
	50	20		19'-6"	19'-3"	18'-7"	17'-9"	19'-6"	19'-3"	18'-7"	17'-9"								
	50	20		18'-1"	17'-9"	17'-1"	16'-1"	18'-1"	17'-9"	17'-1"	16'-1"								

PKI 90L ROOF SPAN TABLE 115% and 125% Load Duration. Maximum clear span in feet and inches, based on horizontal spans.

	LL (psf)	DL (psf)		PKI 90L-12				PKI 90L-14				PKI 90L-16				PKI 90L-18			
				¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12
No Snow 125%	20	10	12" o.c.	33'-5"	32'-8"	30'-9"	28'-7"	39'-10"	38'-11"	36'-9"	34'-1"	45'-2"	44'-1"	41'-7"	38'-7"	50'-0"	48'-11"	46'-1"	39'-10"
	20	15		31'-8"	30'-11"	29'-0"	26'-9"	37'-9"	36'-10"	34'-7"	31'-11"	42'-10"	41'-9"	39'-3"	36'-3"	47'-5"	46'-4"	43'-6"	39'-10"
	20	20		30'-3"	29'-5"	27'-7"	25'-4"	36'-1"	35'-2"	32'-11"	30'-3"	40'-11"	39'-10"	37'-4"	34'-4"	45'-4"	44'-2"	41'-4"	38'-0"
Snow 115%	25	10		31'-8"	31'-0"	29'-3"	27'-3"	37'-9"	36'-11"	34'-11"	32'-6"	42'-10"	41'-11"	39'-7"	36'-10"	47'-5"	46'-5"	43'-11"	39'-10"
	25	15		30'-3"	29'-6"	27'-10"	25'-9"	36'-1"	35'-3"	33'-2"	30'-9"	40'-11"	39'-11"	37'-7"	34'-10"	45'-4"	44'-3"	41'-8"	38'-7"
	25	20		29'-0"	28'-4"	26'-7"	24'-6"	34'-7"	33'-9"	31'-9"	29'-3"	39'-3"	38'-4"	35'-11"	33'-2"	43'-6"	42'-5"	39'-10"	36'-9"
	30	10		30'-3"	29'-7"	28'-0"	26'-2"	36'-1"	35'-4"	33'-5"	31'-2"	40'-11"	40'-0"	37'-11"	35'-5"	45'-4"	44'-4"	42'-0"	39'-3"
	30	15		29'-0"	28'-4"	26'-9"	24'-10"	34'-7"	33'-10"	31'-11"	29'-8"	39'-3"	38'-5"	36'-3"	33'-8"	43'-6"	42'-6"	40'-2"	37'-3"
	30	20		28'-0"	27'-4"	25'-8"	23'-9"	33'-5"	32'-7"	30'-8"	28'-4"	37'-10"	37'-0"	34'-9"	32'-2"	41'-11"	41'-0"	38'-7"	35'-8"
	40	10		27'-4"	26'-11"	25'-10"	24'-5"	32'-8"	32'-1"	30'-10"	29'-1"	37'-0"	36'-5"	34'-11"	33'-0"	41'-0"	40'-4"	38'-9"	36'-7"
	40	15		27'-1"	26'-6"	25'-1"	23'-4"	32'-3"	31'-7"	29'-11"	27'-11"	36'-7"	35'-10"	33'-11"	31'-8"	40'-7"	39'-9"	37'-7"	35'-1"
	40	20		26'-3"	25'-8"	24'-3"	22'-6"	31'-4"	30'-8"	28'-11"	26'-10"	35'-6"	34'-9"	32'-10"	30'-6"	39'-5"	38'-6"	36'-4"	33'-9"
	50	10		25'-4"	24'-11"	23'-11"	22'-8"	30'-2"	29'-9"	28'-6"	27'-1"	34'-3"	33'-8"	32'-4"	30'-9"	38'-0"	37'-4"	35'-10"	34'-1"
	50	15		25'-4"	24'-11"	23'-9"	22'-2"	30'-2"	29'-9"	28'-4"	26'-6"	34'-3"	33'-8"	32'-1"	30'-0"	38'-0"	37'-4"	35'-7"	33'-3"
	50	20		24'-10"	24'-4"	23'-0"	21'-6"	29'-8"	29'-1"	27'-6"	25'-7"	33'-8"	32'-11"	31'-2"	29'-1"	37'-4"	36'-6"	34'-7"	32'-3"
No Snow 125%	20	10	12" o.c.	PKI 90L-20				PKI 90L-22											
	20	15		54'-7"	53'-4"	47'-2"	39'-8"	57'-8"	54'-2"	47'-1"	39'-7"								
	20	20		51'-9"	50'-6"	47'-2"	39'-8"	56'-1"	54'-2"	47'-1"	39'-7"								
Snow 115%	25	10		49'-6"	48'-2"	45'-2"	39'-8"	53'-7"	52'-2"	47'-1"	39'-7"								
	25	15		51'-9"	50'-8"	47'-2"	39'-8"	56'-1"	54'-2"	47'-1"	39'-7"								
	25	20		49'-6"	48'-4"	45'-6"	39'-8"	53'-7"	52'-4"	47'-1"	39'-7"								
	30	10		47'-6"	46'-4"	43'-6"	39'-8"	51'-5"	50'-2"	47'-1"	39'-7"								
	30	15		49'-6"	48'-5"	45'-10"	39'-8"	53'-7"	52'-5"	47'-1"	39'-7"								
	30	20		47'-6"	46'-5"	43'-10"	39'-8"	51'-5"	50'-3"	47'-1"	39'-7"								
	40	10		45'-10"	44'-9"	42'-1"	38'-11"	49'-7"	48'-5"	45'-7"	39'-7"								
	40	15		44'-10"	44'-1"	42'-3"	39'-8"	48'-6"	47'-8"	45'-9"	39'-7"								
	40	20		44'-4"	43'-4"	41'-1"	38'-3"	48'-0"	47'-0"	44'-5"	39'-7"								
	50	10		43'-0"	42'-0"	39'-8"	36'-10"	46'-7"	45'-6"	43'-0"	39'-7"								
	50	15		41'-5"	40'-9"	39'-2"	37'-2"	44'-11"	44'-2"	42'-4"	39'-7"								
	50	20		41'-5"	40'-9"	38'-10"	36'-4"	44'-11"	44'-2"	42'-1"	39'-4"								
	50	20		40'-9"	39'-11"	37'-9"	35'-2"	44'-2"	43'-2"	40'-10"	38'-1"								

PKI 90L ROOF SPAN TABLE 115% and 125% Load Duration. Maximum clear span in feet and inches, based on horizontal spans.

	LL (psf)	DL (psf)		PKI 90L-12				PKI 90L-14				PKI 90L-16				PKI 90L-18			
				¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12
No Snow 125%	20	10	16" o.c.	30'-3"	29'-7"	27'-11"	25'-11"	36'-1"	35'-3"	33'-3"	30'-11"	40'-11"	40'-0"	37'-9"	35'-0"	45'-4"	44'-4"	41'-10"	38'-10"
	20	15		28'-8"	28'-0"	26'-3"	24'-3"	34'-2"	33'-4"	31'-4"	28'-11"	38'-9"	37'-10"	35'-7"	32'-10"	43'-0"	41'-11"	39'-5"	36'-5"
	20	20		27'-4"	26'-8"	25'-0"	23'-0"	32'-8"	31'-10"	29'-10"	27'-5"	37'-0"	36'-1"	33'-10"	31'-1"	41'-0"	40'-0"	37'-5"	34'-5"
25	10	28'-8"		28'-0"	26'-6"	24'-8"	34'-2"	33'-5"	31'-8"	29'-6"	38'-9"	37'-11"	35'-11"	33'-5"	43'-0"	42'-1"	39'-9"	37'-0"	
25	15	27'-4"		26'-9"	25'-2"	23'-4"	32'-8"	31'-11"	30'-0"	27'-10"	37'-0"	36'-2"	34'-1"	31'-7"	41'-0"	40'-1"	37'-9"	35'-0"	
25	20	26'-3"		25'-7"	24'-1"	22'-2"	31'-4"	30'-7"	28'-9"	26'-6"	35'-6"	34'-8"	32'-7"	30'-1"	39'-5"	38'-5"	36'-1"	33'-4"	
30	10	27'-4"		26'-9"	25'-5"	23'-8"	32'-8"	32'-0"	30'-3"	28'-3"	37'-0"	36'-3"	34'-4"	32'-1"	41'-0"	40'-2"	38'-1"	35'-6"	
30	15	26'-3"		25'-8"	24'-3"	22'-6"	31'-4"	30'-8"	28'-11"	26'-10"	35'-6"	34'-9"	32'-10"	30'-6"	39'-5"	38'-6"	36'-4"	33'-9"	
30	20	25'-4"		24'-8"	23'-3"	21'-6"	30'-2"	29'-6"	27'-9"	25'-8"	34'-3"	33'-5"	31'-6"	29'-2"	38'-0"	37'-1"	34'-11"	32'-4"	
40	10	24'-9"		24'-4"	23'-4"	22'-1"	29'-6"	29'-1"	27'-11"	26'-4"	33'-6"	32'-11"	31'-8"	29'-11"	37'-2"	36'-6"	35'-1"	33'-2"	
40	15	24'-6"		23'-11"	22'-8"	21'-2"	29'-2"	28'-7"	27'-1"	25'-3"	33'-2"	32'-5"	30'-9"	28'-8"	36'-9"	35'-11"	34'-1"	31'-9"	
40	20	23'-9"		23'-2"	21'-11"	20'-4"	28'-4"	27'-8"	26'-2"	24'-4"	32'-2"	31'-5"	29'-8"	27'-7"	35'-8"	34'-10"	32'-11"	30'-7"	
Snow 115%	50	10		22'-10"	22'-6"	21'-7"	20'-6"	27'-4"	26'-10"	25'-10"	24'-6"	31'-0"	30'-6"	29'-3"	27'-10"	34'-4"	33'-9"	32'-5"	30'-10"
	50	15		22'-10"	22'-6"	21'-5"	20'-1"	27'-4"	26'-10"	25'-7"	24'-0"	31'-0"	30'-6"	29'-1"	27'-2"	34'-3"	33'-9"	32'-3"	30'-2"
	50	20		22'-6"	22'-0"	20'-10"	19'-5"	26'-10"	26'-3"	24'-10"	23'-2"	30'-5"	29'-10"	28'-3"	26'-4"	31'-9"	31'-4"	30'-0"	28'-5"
				PKI 90L-20				PKI 90L-22											
No Snow 125%	20	10	16" o.c.	49'-6"	48'-4"	45'-7"	39'-8"	53'-7"	52'-4"	47'-1"	39'-7"								
	20	15		46'-11"	45'-9"	43'-0"	39'-8"	50'-9"	49'-7"	46'-7"	39'-7"								
	20	20		44'-10"	43'-8"	40'-11"	37'-7"	48'-6"	47'-3"	44'-3"	39'-7"								
Snow 115%	25	10		46'-11"	45'-11"	43'-5"	39'-8"	50'-9"	49'-8"	47'-0"	39'-7"								
	25	15		44'-10"	43'-9"	41'-3"	38'-2"	48'-6"	47'-5"	44'-7"	39'-7"								
	25	20		43'-0"	41'-11"	39'-5"	36'-4"	46'-7"	45'-5"	42'-8"	39'-4"								
	30	10		44'-10"	43'-10"	41'-7"	38'-9"	48'-6"	47'-6"	45'-0"	39'-7"								
	30	15		43'-0"	42'-0"	39'-8"	36'-10"	46'-7"	45'-6"	43'-0"	39'-7"								
	30	20		41'-5"	40'-6"	38'-1"	35'-3"	44'-11"	43'-10"	41'-3"	38'-2"								
	40	10		40'-6"	39'-11"	38'-3"	36'-2"	43'-11"	43'-2"	41'-5"	39'-2"								
	40	15		40'-1"	39'-3"	37'-2"	34'-8"	43'-5"	42'-6"	40'-3"	37'-6"								
	40	20		38'-11"	38'-0"	35'-11"	33'-4"	42'-2"	41'-2"	38'-11"	36'-2"								
	50	10		37'-6"	36'-11"	35'-5"	33'-8"	40'-7"	39'-11"	38'-4"	36'-5"								
	50	15		37'-6"	36'-11"	35'-2"	32'-11"	40'-7"	39'-11"	38'-1"	35'-7"								
	50	20		36'-10"	36'-1"	34'-2"	31'-10"	39'-10"	39'-1"	37'-0"	34'-6"								

PKI 90L ROOF SPAN TABLE 115% and 125% Load Duration. Maximum clear span in feet and inches, based on horizontal spans.

	LL (psf)	DL (psf)		PKI 90L-12				PKI 90L-14				PKI 90L-16				PKI 90L-18			
				¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12
No Snow 125%	20	10	192" o.c.	28'-4"	27'-9"	26'-2"	24'-4"	33'-10"	33'-1"	31'-3"	29'-0"	38'-5"	37'-6"	35'-5"	32'-11"	42'-7"	41'-7"	39'-3"	36'-5"
	20	15		26'-11"	26'-3"	24'-8"	22'-9"	32'-1"	31'-4"	29'-5"	27'-2"	36'-5"	35'-6"	33'-5"	30'-10"	40'-4"	39'-4"	37'-0"	34'-2"
	20	20		25'-8"	25'-0"	23'-5"	21'-7"	30'-8"	29'-10"	28'-0"	25'-9"	34'-9"	33'-10"	31'-9"	29'-2"	38'-6"	37'-7"	35'-2"	32'-4"
Snow 115%	25	10		26'-11"	26'-4"	24'-11"	23'-2"	32'-1"	31'-5"	29'-9"	27'-8"	36'-5"	35'-7"	33'-8"	31'-5"	40'-4"	39'-6"	37'-4"	34'-9"
	25	15		25'-8"	25'-1"	23'-8"	21'-11"	30'-8"	29'-11"	28'-2"	26'-2"	34'-9"	33'-11"	32'-0"	29'-8"	38'-6"	37'-8"	35'-5"	32'-10"
	25	20		24'-7"	24'-0"	22'-7"	20'-10"	29'-5"	28'-8"	26'-11"	24'-10"	33'-4"	32'-6"	30'-7"	28'-3"	37'-0"	36'-1"	33'-11"	31'-3"
	30	10		25'-8"	25'-2"	23'-10"	22'-3"	30'-8"	30'-0"	28'-5"	26'-7"	34'-9"	34'-0"	32'-3"	30'-1"	38'-6"	37'-9"	35'-9"	33'-5"
	30	15		24'-7"	24'-1"	22'-9"	21'-1"	29'-5"	28'-9"	27'-2"	25'-3"	33'-4"	32'-7"	30'-9"	28'-7"	37'-0"	36'-2"	34'-2"	31'-9"
	30	20		23'-9"	23'-2"	21'-10"	20'-2"	28'-4"	27'-8"	26'-1"	24'-1"	32'-2"	31'-5"	29'-7"	27'-4"	35'-8"	34'-10"	32'-9"	30'-4"
	40	10		23'-2"	22'-10"	21'-11"	20'-9"	27'-8"	27'-3"	26'-2"	24'-9"	31'-5"	30'-11"	29'-8"	28'-1"	34'-10"	34'-3"	32'-11"	31'-1"
	40	15		22'-11"	22'-5"	21'-3"	19'-10"	27'-5"	26'-10"	25'-5"	23'-8"	31'-1"	30'-5"	28'-10"	26'-11"	33'-9"	33'-3"	31'-11"	29'-10"
	40	20		22'-3"	21'-9"	20'-7"	19'-1"	26'-7"	26'-0"	24'-7"	22'-10"	30'-2"	29'-6"	27'-10"	25'-11"	30'-11"	30'-4"	28'-11"	27'-1"
	50	10		21'-5"	21'-1"	20'-3"	19'-3"	25'-7"	25'-2"	24'-2"	23'-0"	29'-0"	28'-7"	27'-6"	26'-1"	30'-11"	30'-7"	29'-11"	28'-11"
	50	15		21'-5"	21'-1"	20'-1"	18'-10"	25'-7"	25'-2"	24'-0"	22'-6"	28'-6"	28'-2"	27'-3"	25'-6"	28'-6"	28'-2"	27'-3"	26'-0"
	50	20		21'-1"	20'-7"	19'-6"	18'-3"	25'-2"	24'-7"	23'-4"	21'-9"	26'-5"	26'-0"	25'-0"	23'-7"	26'-5"	26'-0"	25'-0"	23'-7"
No Snow 125%	20	10	192" o.c.	PKI 90L-20				PKI 90L-22											
	20	15		46'-5"	45'-5"	42'-10"	39'-8"	50'-4"	49'-2"	46'-5"	39'-7"								
	20	20		44'-1"	43'-0"	40'-5"	37'-4"	47'-8"	46'-6"	43'-9"	39'-7"								
Snow 115%	25	10		44'-1"	43'-1"	40'-9"	38'-0"	47'-8"	46'-8"	44'-2"	39'-7"								
	25	15		42'-1"	41'-1"	38'-8"	35'-10"	45'-6"	44'-6"	41'-11"	38'-10"								
	25	20		40'-4"	39'-5"	37'-0"	34'-2"	43'-8"	42'-8"	40'-1"	37'-0"								
	30	10		42'-1"	41'-2"	39'-0"	36'-5"	45'-6"	44'-7"	42'-3"	39'-5"								
	30	15		40'-4"	39'-6"	37'-3"	34'-7"	43'-8"	42'-9"	40'-4"	37'-6"								
	30	20		38'-11"	38'-0"	35'-9"	33'-1"	42'-2"	41'-2"	38'-9"	35'-10"								
	40	10		38'-0"	37'-5"	35'-11"	33'-11"	41'-2"	40'-6"	38'-11"	36'-9"								
	40	15		37'-7"	36'-10"	34'-11"	32'-6"	40'-9"	39'-11"	37'-9"	35'-3"								
	40	20		36'-6"	35'-8"	33'-9"	31'-4"	39'-3"	38'-8"	36'-6"	33'-11"								
	50	10		35'-2"	34'-7"	33'-3"	31'-7"	38'-1"	37'-6"	36'-0"	34'-3"								
	50	15		35'-2"	34'-7"	33'-0"	30'-11"	37'-8"	37'-5"	35'-9"	33'-5"								
	50	20		34'-5"	33'-10"	32'-0"	29'-10"	35'-3"	34'-9"	33'-4"	31'-6"								

PKI 90L ROOF SPAN TABLE 115% and 125% Load Duration. Maximum clear span in feet and inches, based on horizontal spans.

	LL (psf)	DL (psf)		PKI 90L-12				PKI 90L-14				PKI 90L-16				PKI 90L-18			
				¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12	¼ : 12	¼:12 to 4:12	4:12 to 8:12	8:12 to 12:12
No Snow 125%	20	10	24" o.c.	26'-3"	25'-8"	24'-3"	22'-6"	31'-4"	30'-8"	28'-11"	26'-10"	35'-6"	34'-9"	32'-10"	30'-6"	39'-5"	38'-6"	36'-4"	33'-9"
	20	15		24'-10"	24'-3"	22'-10"	21'-1"	29'-8"	29'-0"	27'-3"	25'-2"	33'-8"	32'-10"	30'-11"	28'-7"	37'-4"	36'-5"	34'-3"	31'-8"
	20	20		23'-9"	23'-2"	21'-8"	19'-11"	28'-4"	27'-7"	25'-11"	23'-10"	32'-2"	31'-4"	29'-4"	27'-0"	35'-8"	34'-9"	32'-7"	30'-0"
Snow 115%	25	10		24'-10"	24'-4"	23'-0"	21'-6"	29'-8"	29'-1"	27'-6"	25'-7"	33'-8"	32'-11"	31'-2"	29'-1"	37'-4"	36'-6"	34'-7"	32'-3"
	25	15		23'-9"	23'-2"	21'-10"	20'-3"	28'-4"	27'-8"	26'-1"	24'-2"	32'-2"	31'-5"	29'-7"	27'-5"	35'-8"	34'-10"	32'-10"	30'-5"
	25	20		22'-9"	22'-2"	20'-10"	19'-3"	27'-2"	26'-6"	24'-11"	23'-0"	30'-10"	30'-1"	28'-3"	26'-1"	33'-0"	32'-2"	30'-3"	27'-10"
	30	10		23'-9"	23'-3"	22'-0"	20'-7"	28'-4"	27'-9"	26'-4"	24'-7"	32'-2"	31'-6"	29'-10"	27'-11"	35'-8"	34'-11"	33'-1"	30'-11"
	30	15		22'-9"	22'-3"	21'-0"	19'-7"	27'-2"	26'-7"	25'-1"	23'-4"	30'-10"	30'-2"	28'-6"	26'-6"	33'-0"	32'-5"	30'-11"	28'-11"
	30	20		21'-11"	21'-5"	20'-2"	18'-8"	26'-2"	25'-7"	24'-1"	22'-4"	29'-8"	29'-0"	27'-4"	25'-4"	29'-8"	29'-0"	27'-5"	25'-5"
	40	10		21'-5"	21'-1"	20'-3"	19'-2"	25'-7"	25'-2"	24'-2"	22'-11"	29'-0"	28'-7"	27'-6"	26'-0"	29'-8"	29'-4"	28'-6"	27'-4"
	40	15		21'-2"	20'-9"	19'-8"	18'-4"	25'-4"	24'-9"	23'-6"	21'-11"	26'-11"	26'-6"	25'-6"	24'-2"	26'-11"	26'-6"	25'-6"	24'-2"
	40	20		20'-6"	20'-1"	19'-0"	17'-8"	24'-6"	24'-0"	22'-8"	21'-1"	24'-8"	24'-3"	23'-1"	21'-8"	24'-8"	24'-3"	23'-1"	21'-8"
	50	10		19'-9"	19'-6"	18'-9"	17'-10"	23'-7"	23'-3"	22'-4"	21'-3"	24'-8"	24'-5"	23'-10"	23'-1"	24'-8"	24'-5"	23'-10"	23'-1"
	50	15		19'-9"	19'-6"	18'-7"	17'-5"	22'-9"	22'-6"	21'-9"	20'-9"	22'-9"	22'-6"	21'-9"	20'-9"	22'-9"	22'-6"	21'-9"	20'-9"
	50	20		19'-5"	19'-0"	18'-0"	16'-10"	21'-1"	20'-9"	19'-11"	18'-10"	21'-1"	20'-9"	19'-11"	18'-10"	21'-1"	20'-9"	19'-11"	18'-10"
No Snow 125%	20	10	24" o.c.	PKI 90L-20				PKI 90L-22											
	20	15		43'-0"	42'-0"	39'-8"	36'-10"	46'-7"	45'-6"	43'-0"	39'-7"								
	20	20		40'-9"	39'-9"	37'-5"	34'-6"	44'-2"	43'-1"	40'-6"	37'-5"								
	25	10		38'-11"	37'-11"	35'-6"	32'-8"	42'-2"	41'-1"	38'-6"	35'-5"								
	25	15		40'-9"	39'-11"	37'-9"	35'-2"	44'-2"	43'-2"	40'-10"	38'-1"								
	25	20		38'-11"	38'-0"	35'-10"	33'-2"	42'-2"	41'-2"	38'-10"	35'-11"								
	30	10		37'-4"	36'-5"	34'-3"	31'-7"	40'-5"	39'-5"	37'-1"	34'-3"								
	30	15		38'-11"	38'-1"	36'-1"	33'-9"	42'-2"	41'-3"	39'-1"	36'-6"								
	30	20		37'-4"	36'-6"	34'-6"	32'-0"	40'-5"	39'-6"	37'-4"	34'-8"								
	40	10		36'-0"	35'-2"	33'-1"	30'-8"	38'-5"	38'-0"	35'-10"	33'-2"								
	40	15		35'-2"	34'-7"	33'-3"	31'-5"	38'-1"	37'-6"	36'-0"	34'-0"								
	40	20		34'-9"	34'-1"	32'-3"	30'-1"	35'-11"	35'-5"	34'-0"	32'-3"								
Snow 115%	50	10		32'-11"	32'-4"	30'-10"	28'-10"	32'-11"	32'-4"	30'-10"	28'-10"								
	50	15		32'-6"	32'-0"	30'-9"	29'-3"	32'-11"	32'-7"	31'-10"	30'-9"								
	50	20		30'-4"	29'-11"	29'-0"	27'-8"	30'-4"	29'-11"	29'-0"	27'-8"								
	50	20		28'-2"	27'-9"	26'-7"	25'-2"	28'-2"	27'-9"	26'-7"	25'-2"								

GENERAL NOTES FOR ROOF LOAD TABLES:

ROOF LOAD TABLES

Values shown are maximum allowable load capacities based on the following assumptions:

1. Span = clear distance between supports along the sloped length (simple spans only).
2. Table values are for uniform gravity loads only, not adjusted for roof pitch; wind uplift not included.
3. Total load based on Snow (115%) or Non-Snow (125%) duration, as noted.
4. No additional stiffness from roof sheathing is included.
5. Total deflection limited to $L/180$; creep not considered.
6. Live load deflection limited to $L/360$ or $L/240$, as noted.
7. Assumes full lateral support of compression flange (max unbraced length 24"); Wind design may require bottom flange bracing and uplift connectors.
8. Spans assume minimum end bearing of 1-1/2" ($\leq 16"$ depth) and 2-1/2" ($> 16"$ depth), limited by SPF wall plate bearing capacity ($F_{c\perp} = 425$ psi).

ADDITIONAL NOTES:

1. The allowable loads represent the capacity of the joist in pounds per lineal foot (plf) of length.
2. Designer shall check the appropriate Total Load and the Live Load column.
3. For roofs with a pitch of 2:12 or greater, the horizontal span shall be multiplied by the appropriate adjustment factor from the table at the bottom of this page.
4. To design a double I-Joist, the values in these tables can be doubled.
5. Web stiffeners are not required where only one value is shown for Total Load or when the design total load does not exceed the first value (capacity without stiffeners) in the Total Load column where two values are given. Web stiffeners are required at both end supports if the design total load exceeds the first value. Do not exceed the second value (capacity with stiffeners).

HOW TO USE THIS TABLE:

1. Select the span required. For roofs with a pitch of 2:12 or greater, the horizontal span shall be multiplied by the appropriate roof pitch adjustment factor from the table at the bottom of this page.
2. Compare the design total load to the appropriate Total Load column for Snow (115%) or Non-Snow (125%). Where two numbers are shown, the first number represents the Total Load capacity without web stiffeners. The second number represents the Total Load capacity with stiffeners.
3. Compare the design live load to the appropriate Live Load column ($L/360$ or $L/240$).
4. Select a product that exceeds both the design total and live loads.
5. Specify web stiffeners as dictated by the Total Load column.

PKI 60L

UNIFORM ROOF LOADS (PLF) TABLES (IBC/IRC 2021): SIMPLE SPANS

Span Length (ft)	9-1/2"				11-7/8"				14"				16"			
	Live Load		Total Load		Live Load		Total Load		Live Load		Total Load		Live Load		Total Load	
	L/360	L/240	115%	125%	L/360	L/240	115%	125%	L/360	L/240	115%	125%	L/360	L/240	115%	125%
6	-	-	385	385	-	-	385	385	-	-	385	385	-	-	385	385
7	-	-	331	331	-	-	331	331	-	-	331	331	-	-	331	331
8	-	-	290	290	-	-	290	290	-	-	290	290	-	-	290	290
9	-	-	258	258	-	-	258	258	-	-	258	258	-	-	258	258
10	229	-	232	232	-	-	232	232	-	-	232	232	-	-	232	232
11	178	-	212	212	-	-	212	212	-	-	212	212	-	-	212	212
12	141	-	194	194	-	-	194	194	-	-	194	194	-	-	194	194
13	113	170	176	179	-	-	179	179	-	-	179	179	-	-	179	179
14	92	138	152	165	148	-	166	166	-	-	166	166	-	-	166	166
15	76	114	132	144	123	-	155	155	-	-	155	155	-	-	155	155
16	63	95	116	126	103	-	146	146	-	-	146	146	-	-	146	146
17	53	80	103	106	87	130	132	137	124	-	137	137	-	-	137	137
18	45	68	90	90	74	111	118	128	105	-	130	130	-	-	130	130
19	38	58	77	77	63	95	106	115	90	-	123	123	121	-	123	123
20	33	50	67	67	54	82	96	104	78	-	114	117	104	-	117	117
21	29	43	58	58	47	71	87	94	68	102	103	111	91	-	111	111
22	25	38	50	50	41	62	79	83	60	90	94	102	80	-	106	106
23	22	33	44	44	36	55	72	73	52	79	86	93	70	-	98	102
24	-	-	-	-	32	48	65	65	46	70	79	86	62	93	90	97
25	-	-	-	-	28	43	57	57	41	62	73	79	55	83	83	90
26	-	-	-	-	25	38	51	51	37	55	67	73	49	74	77	83
27	-	-	-	-	23	34	46	46	33	49	62	66	44	67	71	77
28	-	-	-	-	20	31	41	41	29	44	58	59	40	60	66	72
29	-	-	-	-	-	-	-	-	27	40	54	54	36	54	62	67
30	-	-	-	-	-	-	-	-	24	36	49	49	32	49	58	63
31	-	-	-	-	-	-	-	-	22	33	44	44	29	44	54	59
32	-	-	-	-	-	-	-	-	20	30	40	40	27	40	51	54

PKI 70L

UNIFORM ROOF LOADS (PLF) TABLES (IBC/IRC 2021): SIMPLE SPANS

Span Length (ft)	9-1/2"				11-7/8"				14"				16"			
	Live Load		Total Load		Live Load		Total Load		Live Load		Total Load		Live Load		Total Load	
	L/360	L/240	115%	125%	L/360	L/240	115%	125%	L/360	L/240	115%	125%	L/360	L/240	115%	125%
6	-	-	441	450	-	-	441	450	-	-	441	450	-	-	441	450
7	-	-	379	386	-	-	379	386	-	-	379	386	-	-	379	386
8	-	-	332	339	-	-	332	339	-	-	332	339	-	-	332	339
9	-	-	296	302	-	-	296	302	-	-	296	302	-	-	296	302
10	255	-	266	272	-	-	266	272	-	-	266	272	-	-	266	272
11	199	-	242	247	-	-	242	247	-	-	242	247	-	-	242	247
12	158	-	222	227	-	-	222	227	-	-	222	227	-	-	222	227
13	127	190	200	210	204	-	205	210	-	-	205	210	-	-	205	210
14	103	155	172	187	167	-	191	195	-	-	191	195	-	-	191	195
15	85	128	150	163	139	-	178	182	-	-	178	182	-	-	178	182
16	71	107	132	143	116	-	167	170	165	-	167	170	-	-	167	170
17	60	90	117	120	98	147	150	161	140	-	157	161	-	-	157	161
18	51	76	102	102	83	125	134	146	119	-	149	152	-	-	149	152
19	43	65	87	87	72	108	120	131	103	-	141	144	137	-	141	144
20	37	56	75	75	62	93	109	118	89	134	129	137	118	-	134	137
21	32	49	65	65	54	81	99	107	77	116	117	127	103	-	127	130
22	28	43	57	57	47	71	90	95	68	102	107	116	91	-	122	124
23	25	38	50	50	41	62	82	83	60	90	98	106	80	-	112	119
24	22	33	44	44	37	55	74	74	53	80	90	97	71	106	102	111
25	-	-	-	-	32	49	65	65	47	71	83	90	63	95	94	103
26	-	-	-	-	29	44	58	58	42	63	76	83	56	85	87	95
27	-	-	-	-	26	39	52	52	38	57	71	76	50	76	81	88
28	-	-	-	-	23	35	47	47	34	51	66	68	45	68	75	82
29	-	-	-	-	21	32	42	42	30	46	61	61	41	62	70	76
30	-	-	-	-	-	-	-	-	28	42	56	56	37	56	65	71
31	-	-	-	-	-	-	-	-	25	38	50	50	34	51	61	67
32	-	-	-	-	-	-	-	-	23	34	46	46	31	46	58	62

PKI 80L

UNIFORM ROOF LOADS (PLF) TABLES (IBC/IRC 2021): SIMPLE SPANS

Span Length (ft)	9-1/2"				11-7/8"				14"			
	Live Load		Total Load		Live Load		Total Load		Live Load		Total Load	
	L/360	L/240	115%	125%	L/360	L/240	115%	125%	L/360	L/240	115%	125%
6	-	-	450	450	-	-	450	450	-	-	450	450
7	-	-	386	386	-	-	386	386	-	-	386	386
8	-	-	339	339	-	-	339	339	-	-	339	339
9	-	-	302	302	-	-	302	302	-	-	302	302
10	-	-	272	272	-	-	272	272	-	-	272	272
11	231	-	247	247	-	-	247	247	-	-	247	247
12	184	-	227	227	-	-	227	227	-	-	227	227
13	148	-	210	210	-	-	210	210	-	-	210	210
14	121	182	195	195	-	-	195	195	-	-	195	195
15	100	151	182	182	164	-	182	182	-	-	182	182
16	84	126	168	168	138	-	170	170	-	-	170	170
17	71	106	142	142	117	-	161	161	-	-	161	161
18	60	90	121	121	100	150	152	152	143	-	152	152
19	52	78	104	104	86	129	144	144	123	-	144	144
20	44	67	89	89	74	111	137	137	107	-	137	137
21	39	58	78	78	65	97	128	130	93	-	130	130
22	34	51	68	68	57	85	114	114	82	123	124	124
23	30	45	60	60	50	75	100	100	72	108	119	119
24	26	39	53	53	44	66	89	89	64	96	114	114
25	23	35	47	47	39	59	79	79	57	85	108	109
26	21	31	42	42	35	53	70	70	51	76	100	102
27	-	-	-	-	31	47	63	63	45	68	91	91
28	-	-	-	-	28	42	57	57	41	62	82	82
29	-	-	-	-	25	38	51	51	37	56	74	74
30	-	-	-	-	23	35	46	46	33	50	67	67
31	-	-	-	-	21	31	42	42	30	46	61	61
32	-	-	-	-	-	-	-	-	28	42	56	56

PKI 80L

UNIFORM ROOF LOADS (PLF) TABLES (IBC/IRC 2021): SIMPLE SPANS

Span Length (ft)	16"				18"				20"			
	Live Load		Total Load		Live Load		Total Load		Live Load		Total Load	
	L/360	L/240	115%	125%	L/360	L/240	115%	125%	L/360	L/240	115%	125%
6	-	-	450	450	-	-	740	740	-	-	740	740
7	-	-	386	386	-	-	637	637	-	-	637	637
8	-	-	339	339	-	-	559	559	-	-	559	559
9	-	-	302	302	-	-	499	499	-	-	499	499
10	-	-	272	272	-	-	450	450	-	-	450	450
11	-	-	247	247	-	-	410	410	-	-	410	410
12	-	-	227	227	-	-	376	376	-	-	376	376
13	-	-	210	210	-	-	347	347	-	-	347	347
14	-	-	195	195	-	-	323	323	-	-	323	323
15	-	-	182	182	-	-	302	302	-	-	302	302
16	-	-	170	170	-	-	283	283	-	-	283	283
17	-	-	161	161	-	-	267	267	-	-	267	267
18	-	-	152	152	239	-	252	252	-	-	252	252
19	-	-	144	144	207	-	239	239	-	-	239	239
20	-	-	137	137	180	-	216	227	223	-	227	227
21	124	-	130	130	158	-	196	213	196	-	216	216
22	109	-	124	124	139	-	178	194	172	-	198	206
23	96	-	119	119	123	-	163	178	153	-	181	197
24	85	-	114	114	109	-	150	163	136	-	167	181
25	76	-	109	109	97	146	138	150	121	-	154	167
26	68	102	105	105	87	131	128	139	109	-	142	155
27	61	92	101	101	78	118	119	129	98	-	132	143
28	55	83	98	98	71	106	110	120	88	133	123	133
29	50	75	92	94	64	96	103	112	80	120	114	124
30	45	68	86	91	58	87	96	105	73	109	107	116
31	41	62	80	83	53	80	90	98	66	100	100	109
32	37	56	75	75	48	73	85	92	60	91	94	102

PKI 90L

UNIFORM ROOF LOADS (PLF) TABLES (IBC/IRC 2021): SIMPLE SPANS

Span Length (ft)	9-1/2"				11-7/8"				14"			
	Live Load		Total Load		Live Load		Total Load		Live Load		Total Load	
	L/360	L/240	115%	125%	L/360	L/240	115%	125%	L/360	L/240	115%	125%
6	-	-	488	530	-	-	488	530	-	-	488	530
7	-	-	419	456	-	-	419	456	-	-	419	456
8	-	-	368	400	-	-	368	400	-	-	368	400
9	-	-	327	356	-	-	327	356	-	-	327	356
10	-	-	295	321	-	-	295	321	-	-	295	321
11	319	-	268	292	-	-	268	292	-	-	268	292
12	256	-	246	268	-	-	246	268	-	-	246	268
13	209	-	227	247	-	-	227	247	-	-	227	247
14	172	259	211	230	274	-	211	230	-	-	211	230
15	144	216	197	214	230	-	197	214	-	-	197	214
16	121	181	185	201	194	-	185	201	-	-	185	201
17	102	154	174	189	166	249	174	189	232	-	174	189
18	87	131	164	175	142	213	164	179	200	-	164	179
19	75	113	151	151	123	184	156	169	173	-	156	169
20	65	98	131	131	107	160	148	161	151	-	148	161
21	57	85	114	114	93	140	141	153	132	199	141	153
22	50	75	100	100	82	123	135	146	116	175	135	146
23	44	66	88	88	72	109	129	140	103	155	129	140
24	39	58	78	78	64	97	123	129	92	138	123	134
25	34	52	69	69	57	86	115	115	82	123	119	129
26	31	46	62	62	51	77	103	103	73	110	114	124
27	28	42	56	56	46	69	92	92	66	99	110	119
28	25	37	50	50	41	62	83	83	59	89	106	115
29	22	34	45	45	37	56	75	75	54	81	102	108
30	20	31	41	41	34	51	68	68	49	73	98	98
31	-	-	-	-	31	46	62	62	44	67	89	89
32	-	-	-	-	28	42	57	57	40	61	81	81

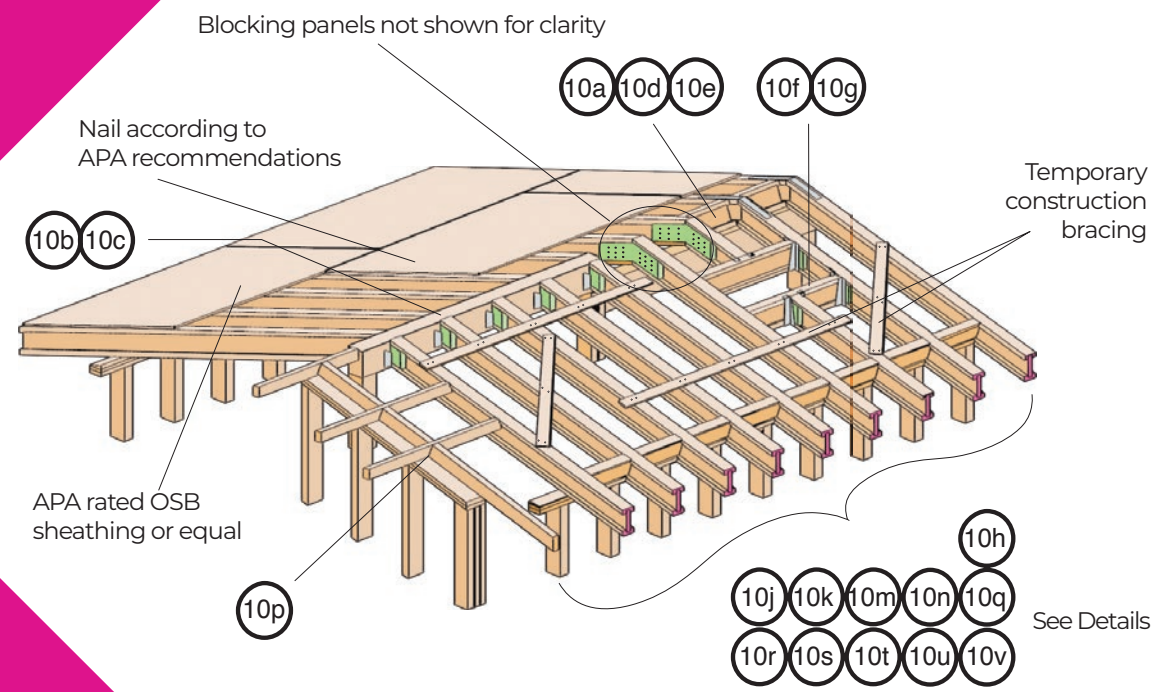
PKI 90L

UNIFORM ROOF LOADS (PLF) TABLES (IBC/IRC 2021): SIMPLE SPANS

Span Length (ft)	16"				18"				20"			
	Live Load		Total Load		Live Load		Total Load		Live Load		Total Load	
	L/360	L/240	115%	125%	L/360	L/240	115%	125%	L/360	L/240	115%	125%
6	-	-	488	530	-	-	889	966	-	-	963	v1047
7	-	-	419	456	-	-	765	832	-	-	829	901
8	-	-	368	400	-	-	672	730	-	-	728	791
9	-	-	327	356	-	-	599	651	-	-	649	705
10	-	-	295	321	-	-	540	587	-	-	585	636
11	-	-	268	292	-	-	492	535	-	-	533	579
12	-	-	246	268	-	-	452	491	-	-	489	532
13	-	-	227	247	-	-	417	454	-	-	452	492
14	-	-	211	230	-	-	388	422	-	-	420	457
15	-	-	197	214	-	-	362	394	-	-	393	427
16	-	-	185	201	-	-	340	370	-	-	368	401
17	-	-	174	189	-	-	320	348	-	-	347	377
18	-	-	164	179	327	-	303	329	-	-	328	356
19	-	-	156	169	285	-	287	312	-	-	311	338
20	199	-	148	161	250	-	273	296	308	-	295	321
21	175	-	141	153	220	-	260	282	272	-	281	306
22	154	-	135	146	195	-	248	270	241	-	269	292
23	137	-	129	140	173	-	237	258	214	-	257	280
24	122	-	123	134	154	231	228	247	191	-	247	268
25	109	164	119	129	138	207	212	231	172	-	236	256
26	98	147	114	124	124	186	196	213	154	232	218	237
27	88	132	110	119	112	168	182	198	139	209	202	220
28	79	119	106	115	101	152	169	184	126	190	188	204
29	72	108	102	111	92	138	158	172	115	172	175	191
30	65	98	99	107	83	125	148	160	104	157	164	178
31	60	90	96	104	76	114	138	150	95	143	154	167
32	54	82	93	101	70	105	130	140	87	131	144	157

GENERAL NOTES FOR ROOF INSTALLATION DETAILS:

ROOF
INSTALLATION
DETAILS



ROOF INSTALLATION ILLUSTRATIONS

10a

Upper End, Bearing on Wall

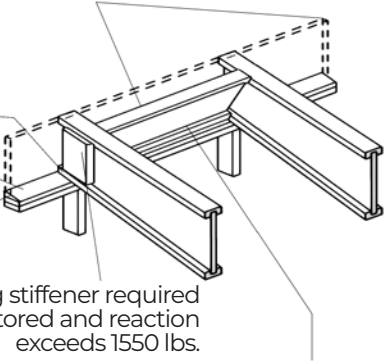
Blocking panel, x-bridging, or $2\frac{3}{32}$ " APA Rated Sheathing 48/24 as continuous closure.
(Validate use of x-bridging with local building code.)

Minimum attachment: For slope $\frac{1}{4}$:12, one 3" 10d box nail only, face nail at each side of bearing. For slope $> \frac{1}{4}$:12 design joist attachment to beveled plate to transfer lateral thrust.

Attach beveled plate to framing with 1 - 3 $\frac{1}{2}$ " at 16" o.c.

Beveled plate for slopes greater than $\frac{1}{4}$:12. Code-recognized connectors may be substituted. For slopes greater than 4:12 connectors are required to resist lateral thrust.

Bearing stiffener required when factored and reaction exceeds 1550 lbs.



2 $\frac{1}{2}$ " nails at 6" o.c. - minimum 3 - 2 $\frac{1}{2}$ " nails per blocking panel.
When used for lateral shear transfer match nail type and sheathing edge nailing ("boundary nailing" for engineered diaphragm applications). Use minimum 2 $\frac{1}{2}$ " nails.

NOTE: Additional connection may be required for wind uplift.

10b

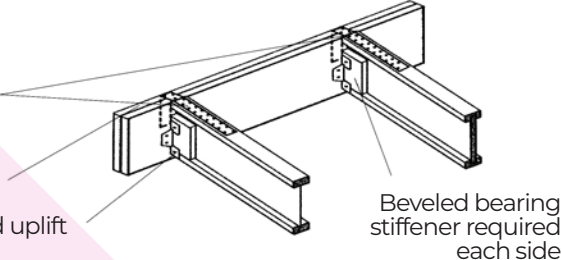
Peak Connection

For roof slopes between $\frac{1}{4}$:12 and 12:12, provide a strap tie nailed at a minimum of 3" spacing or in accordance with the recommendation of the strap manufacturer.

Ridge beam (Glulam or LVL)

Adjustable Slope Hangar with a minimum factored uplift resistance of 300 lbs.

NOTE: Additional connection may be required for wind uplift.



ROOF INSTALLATION ILLUSTRATIONS

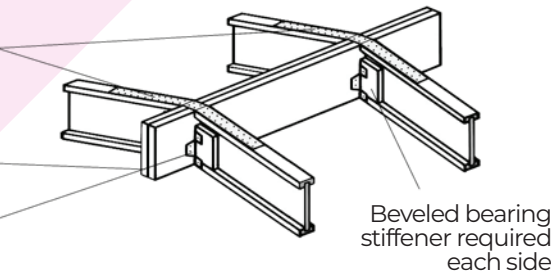
10c

I-Joist to Ridge Beam Connection

For roof slopes between 1/4:12 and 12:12, provide a strap tie nailed at a minimum of 3" spacing on each side of roof of the strap manufacturer.

Ridge beam (Glulam or LVL)

Adjustable Slope Hanger with a minimum factored uplift resistance of 300 lbs.



NOTE: Additional connection may be required for wind uplift.

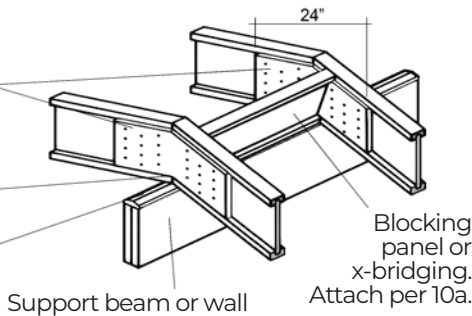
10d

I-Joist Connection with Wood Structural Panel Gussets

2 3/32" x 2'-0" wood structural panel (front and back sides) with 12 - 2 1/2" nails into each joist with nails clinched. When unfactored roof live load exceeds 40 psf, horizontal orientation of gusset strong axis is required. Gap 1/8" at top.

Attach per 10a

Attach beveled plate to framing with 1 - 3 1/2" at 16" o.c.



NOTE: Additional connection may be required for wind uplift.

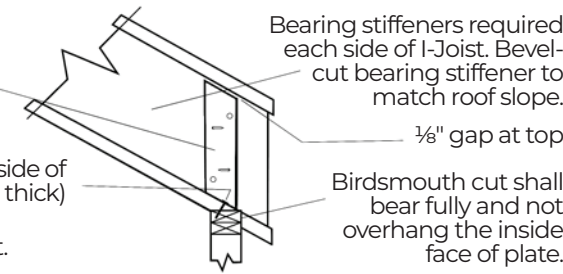
REINFORCED LOAD BEARING CANTILEVER ILLUSTRATIONS

10h Birdsmouth Cut & Bevel Cut Bearing Stiffeners (Permitted on low end of I-Joist only)

4 - 2 1/2" nails (two each side)
clinched when possible.

One 3" box nail, face nail at each side of
bearing (face nail where flange is 7/8" to 1" thick)

NOTE: Additional connection may be required for wind uplift.



10j Birdsmouth Cut with Overhang (Permitted on low end of I-Joist only)

Blocking I-Joist or panel or x-bridging. (Validate use of x-bridging with local building code.)

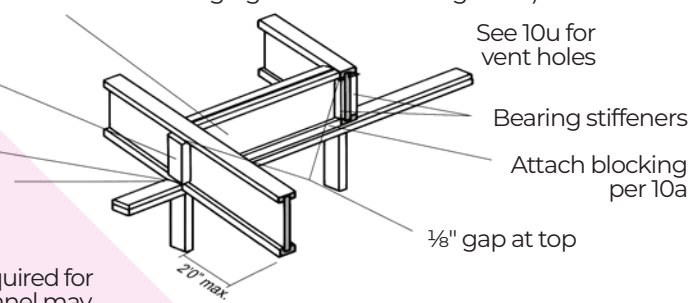
Bearing stiffener required each
side (attach per 10h)

Attach joist to top
plate per 10h

Birdsmouth cut at bearing

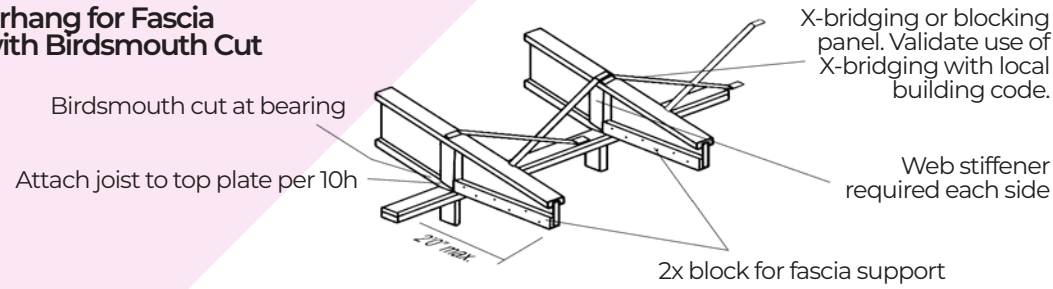
NOTE: Additional connection may be required for
wind uplift. Outside corner of blocking panel may
be trimmed if it interferes with roof sheathing.

In such cases, position blocking panel on top plate to minimize trimming and still allow
required nailing into top plate.

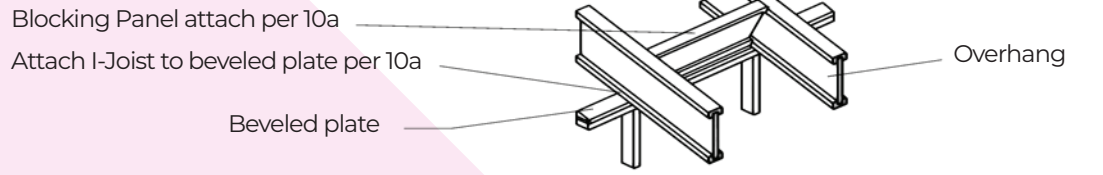


REINFORCED LOAD BEARING CANTILEVER ILLUSTRATIONS

10k I-Joist Overhang for Fascia Support with Birdsmouth Cut



10m Blocking Panel at Beveled Plate



NOTE: Additional connection may be required for wind uplift.

REINFORCED LOAD BEARING CANTILEVER ILLUSTRATIONS

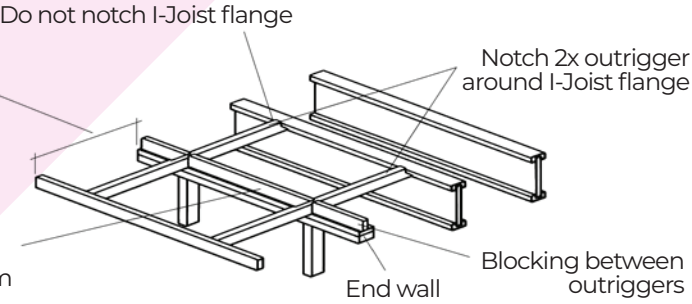
10p Outrigger

Maximum overhang same as rafter spacing (not to exceed 2'-0")

Toe nail blocking to end wall for roof sheathing $\frac{5}{8}$ ". Match nail type and spacing with roof sheathing edge nailing.

("Boundary nailing" for engineered diaphragm applications.) Use minimum 2 $\frac{1}{2}$ " nails.

NOTE: Additional connection may be required for wind uplift.

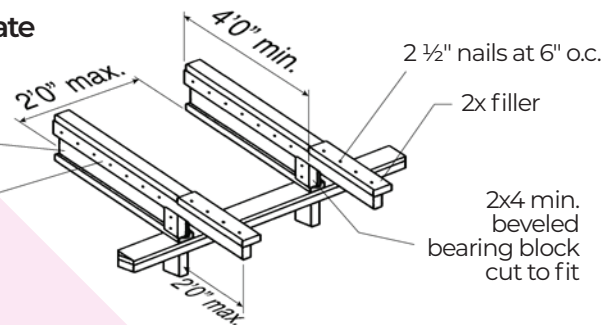


10r Lumber Overhang with Beveled Plate

(Blocking panel or x-bridging not shown for clarity)

Attach per 10a

2x4 overhang attached to web of I-Joist with 1 row of 2 $\frac{1}{2}$ " nails at 8" o.c. clinched



NOTE: Additional connection may be required for wind uplift. Lumber overhang shall be 2x4 Spruce-Pine-Fir #2 or better, or stronger species.

PKjoist FIRE RATED ASSEMBLIES

Standard	Rating	Design Number
ASTM E119 CAN/ULC S101	45-Minute	PWL/SFSW 45-01
	60-Minute	PWL/SFSW 60-03b
	90-Minute	PWL/SFSW 90-01
	120-Minute	PWL/SFSW 120-01

Attribute	Value
Criteria	CAN / ULC S101 (2007)
Criteria	ASTM D5055 (2011)
Criteria	ASTM E119 (2012a)
CSI Code	06 17 33 Wood I-Joists
Intertek Services	Certification
Listed or Inspected	LISTED
Listing Section	PREFABRICATED JOISTS
Report Number	G101764711; G102758068; G103022163; G103028741; G103186626
Spec ID	34689



FIRE RATED ASSEMBLIES

PWL/SFSW 45-01



1. FLOOR TOPPING: (Optional, Not Shown)

Gypsum concrete, lightweight or normal concrete topping. When used as a roof assembly, materials for a built-up roof covering that are described in an assembly that provides a Class A, B, or C rating on combustible wood decks may be used.

2. FLOOR SHEATHING: Min. $\frac{5}{8}$ in. thick wood sheathing, designed and installed per Code requirements. When used as a roof assembly, min. $\frac{1}{2}$ in. thick wood sheathing may be used, when designed and installed per Code requirements.

3. INSULATION: (Optional, Not Shown) When installed, insulation shall be installed above the joist flanges and supported by stay wires spaced 12 in. on center (o.c.).

4. CERTIFIED COMPANY: Pinkwood LTD.

CERTIFIED PRODUCT: Wood I-Joist

CERTIFIED MODELS: PKI 60L, PKI 70L, PKI 80L, and PKI 90L I-joist Series.

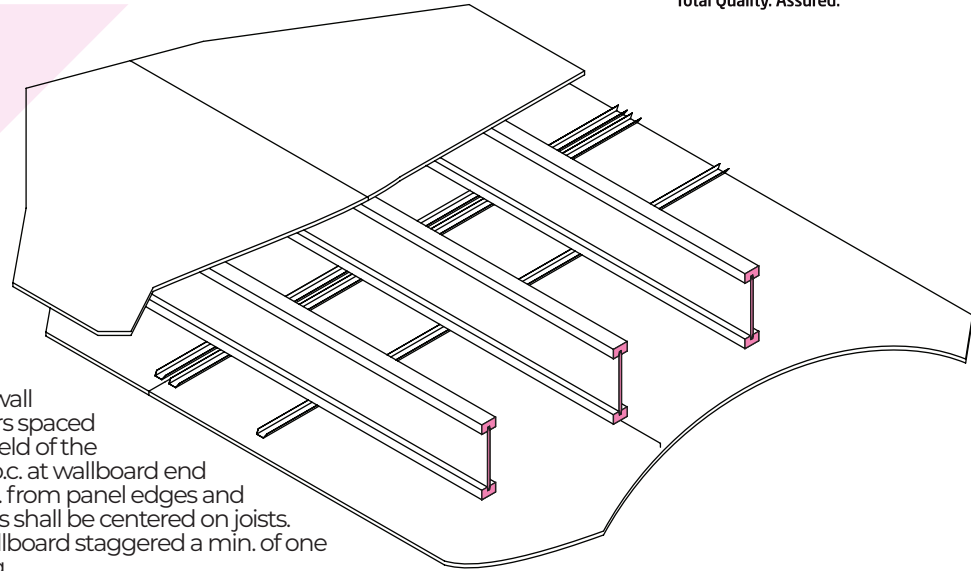
9 $\frac{1}{2}$ in. min. deep joists spaced a max. of 24 in. o.c.. Installed in accordance with the Code.

5. RESILIENT CHANNELS: Min. 0.019 in. thick galvanized steel resilient channel attached perpendicular to the bottom flange of the joists with one 1-5/8 in. drywall screw. Channels spaced 16 in. o.c.. max. Additional channels are required at gypsum board end joints so that each board is attached to a separate channel. These additional channels shall extend to the next joist on each side of the board end joint.

6. GYPSUM WALLBOARD:

Min. $\frac{5}{8}$ in. thick Type X gypsum wallboard installed with long dimension perpendicular to resilient channels and fastened to each channel with min. 1 $\frac{3}{8}$ in. long Type S drywall screws. Fasteners spaced 12 in. o.c. in the field of the wallboard, 8 in. o.c. at wallboard end joints, and 1 $\frac{1}{2}$ in. from panel edges and ends. Edge joints shall be centered on joists. End joints of wallboard staggered a min. of one channel spacing.

7. FINISH SYSTEM: (Not Shown) Face layer joints covered with tape and coated with joint compound. Screw heads covered with joint compound.



FIRE RATED ASSEMBLIES

PWL/SFSW 60-03b



1. FLOOR TOPPING: (Optional, Not Shown)
Gypsum concrete, lightweight or normalweight concrete topping. When used as a roof assembly, materials for a built-up roof covering that are described in an assembly that provides a Class A, B, or C rating on combustible wood decks may be used. Reference sound rating, if applicable.

2. FLOOR SHEATHING: Min. 5/8" T&G Thick Wood Sheathing, Designed and Installed Per IBC or IRC Blocked or unblocked diaphragms where specified. When used as a roof assembly, minimum 1/2"-thick wood sheathing may be used when designed and installed per IBC or IRC requirements.

3. INSULATION: (Optional, Not Shown) When installed, insulation shall be installed above the joist flanges and supported by stay wires spaced 12" on center (o.c.).

4. CERTIFIED COMPANY: Pinkwood LTD.

CERTIFIED PRODUCT: Wood I-Joist

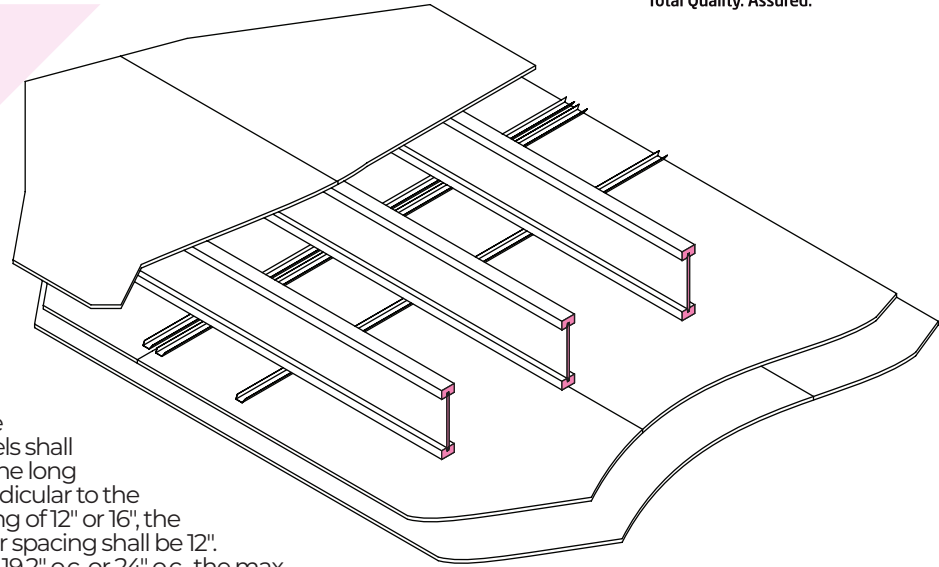
CERTIFIED MODELS: PKI 60L, PKI 70L, PKI 80L, and PKI 90L I-Joist Series.

9 1/2" minimum deep joists spaced a maximum of 24" o.c. shall have fastener spacing of 8" o.c. maximum. Joist spacing of 16" o.c. shall have fastener spacing of 12" o.c. maximum.

5. RESILIENT CHANNELS: (Optional) Minimum 0.019-inch-thick galvanized steel resilient channels. Channel attached perpendicular to the bottom flange of the I-joists with one 1 1/4" long drywall screw. Channels are spaced at a max. of 16" o.c. The maximum channel spacing may be increased to 24" o.c. When I-joists are spaced a maximum of 16" o.c.

6. GYPSUM WALLBOARD:

Two layers of min. 1/2" Type X gypsum wallboard. Where no resilient channels (RC) are used, panels shall be attached with the long dimension perpendicular to the joists. Where (RC) are used, panels shall be attached with the long dimension perpendicular to the channel. For spacing of 12" or 16", the maximum fastener spacing shall be 12". For joist spacing of 19.2" o.c. or 24" o.c., the max. fastener spacing shall be 8".



6a. WALLBOARD BASE LAYER – The base layer shall be attached to the joists (When no RC used) or to the RC (when used) using 1 1/2" Type S drywall screws at 12" o.c. In all cases, adjoining panel end joint edges shall be centered on the supporting joist (when no RC is used) or RC (when used). End joints shall be staggered a minimum of one joist or RC spacing.

6b. WALLBOARD FACE LAYER – The face layer shall be attached through the base layer and into the joist or RC with 2" long Type S drywall screws spaced as follows: for joists or RC spacing of 12" o.c. or 16" o.c., the maximum fastener spacing shall be 12". For joist or RC spacing of 19.2" o.c. or 24" o.c., the max fastener spacing shall be 8". Adjoining panel end joints occurring over supporting joist or RC

shall be staggered at least one framing spacing from those of the adjacent underlying layer and attached to framing (joist or RC when used) with fasteners offset by at least 4" from the fastener in the underlying layer. Unbacked adjoining panel edges shall be offset by at least 12" from those of the adjacent underlying layer.

7. FINISH SYSTEM: (Not Shown) Face layer joints shall be covered with tape and coated with joint compound. Screw heads shall be covered with joint compound. The gypsum panel membrane shall be installed such that the ceiling gypsum panel membrane is installed first, followed by the wall gypsum panel membrane, to ensure that the ceiling gypsum panel membrane is supported by each layer of the wall gypsum panel membrane.

FIRE RATED ASSEMBLIES

PWL/SFSW 60-03b STC and IIC Ratings Table

Components	STC Rating	IIC Rating	Acoustic Mat	Floor Topping	Insulation Thickness
Ceramic tile bonded with thinset adhesive	65	53	5 mm Recycled Rubber Underlayment	1 in. thick Gypsum Concrete	1 ½ in. thick mineral wool insulation
Ceramic tile bonded with thinset adhesive	66	54	5 mm Recycled Rubber Underlayment	1 ½ in. thick lightweight concrete	1 ½ in. thick mineral wool insulation
Ceramic tile bonded with thinset adhesive	55	49	5 mm Recycled Rubber Underlayment	None	1 ½ in. thick mineral wool insulation
Hardwood	65	55	2 mm Foam Underlayment	1 in. thick Gypsum Concrete	1 ½ in. thick mineral wool insulation
Hardwood	66	56	2 mm Foam Underlayment	1 ½ in. thick lightweight concrete	1 ½ in. thick mineral wool insulation
Hardwood	55	47	2 mm Foam Underlayment	None	1 ½ in. thick mineral wool insulation
Cushioned Vinyl	65	55	None	1 in. thick Gypsum Concrete	1 ½ in. thick mineral wool insulation
Cushioned Vinyl	66	56	None	1 ½ in. thick lightweight concrete	1 ½ in. thick mineral wool insulation
Cushioned Vinyl	55	46	None	None	1 ½ in. thick mineral wool insulation
Carpet with Pad	65	59	None	1 in. thick Gypsum Concrete	1 ½ in. thick mineral wool insulation
Carpet with Pad	66	62	None	1 ½ in. thick lightweight concrete	1 ½ in. thick mineral wool insulation
Carpet with Pad	55	48	None	None	1 ½ in. thick mineral wool insulation

NOTE:

The STC and IIC ratings are estimated by Swallow Acoustic Consultants Ltd. The ratings apply to assemblies with 1½ in. thick floor sheathing or thicker.

Notes:

1. Sound (STC) and Impact (IIC) ratings listed above are per 2018 IBC Section 1206.2 and from tested assemblies in accordance with ASTM E90 – "Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements" and ASTM E492 – "Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine".
2. Analysis to determine STC/IIC rating is permitted per 2018 IBC Section 1206.2 and 1206.3 in accordance with ASTM E413 – "Classification for Rating Sound Insulation" and ASTM E989 – "Standard Classification Determination of Impact Insulation Class".
3. Modeled STC/IIC ratings are permitted per AWC Technical Report 15 – "Calculation of Sound Transmission Parameters for Wood-Frame Assemblies".

FIRE RATED ASSEMBLIES

PWL/SFSW 90-01



1. FLOOR TOPPING: (Optional, Not Shown) Gypsum concrete, lightweight or normal concrete topping. When used as a roof assembly, materials for a built-up roof covering that are described in an assembly that provides a Class A, B, or C rating on combustible wood decks may be used.

2. FLOOR SHEATHING: Min. $\frac{5}{8}$ in. thick wood sheathing, designed and installed per Code requirements. When used as a roof assembly, min. $\frac{1}{2}$ in. thick wood sheathing may be used, when designed and installed per Code requirements.

3. INSULATION: Min. $1\frac{1}{2}$ (min.). Batts installed on top of resilient channels with the sides butted against the sides of the joists. The ends of the batts shall be centered over resilient channels and tightly butted.

4. CERTIFIED COMPANY: Pinkwood LTD.

CERTIFIED PRODUCT: Wood I-Joist

CERTIFIED MODELS: PKI 60L, PKI 70L, PKI 80L, and PKI 90L I-joist Series.

$9\frac{1}{2}$ in. min. deep joists spaced a max. of 24 in. on center (o.c.) (min. $1\frac{1}{2}$ in. $\times$ $2\frac{5}{16}$ in. flange dimensions). Installed in accordance with the Code.

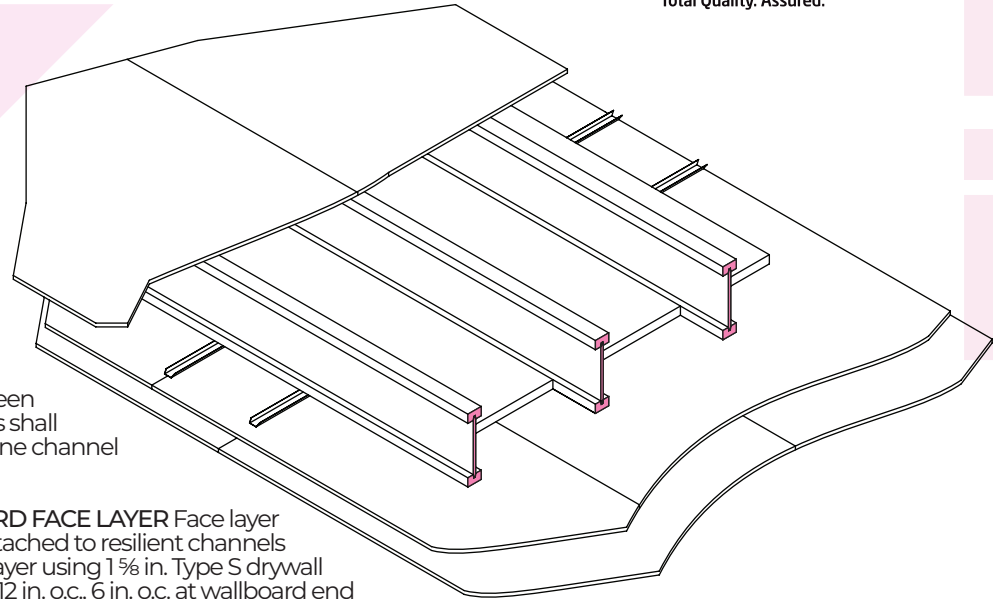
5. RESILIENT CHANNELS: Min. 0.019 in. thick galvanized steel resilient channels, attached perpendicular to joists using $1\frac{5}{8}$ in. long drywall screws. Resilient channels spaced 12 in. o.c..

6. GYPSUM WALLBOARD: Two layers of min. $\frac{5}{8}$ in. thick Type C gypsum wallboard as follows:

6a. WALLBOARD BASE LAYER
– Base layer of wallboard attached to resilient channels using $1\frac{3}{4}$ in. Type S drywall screws at 12 in. o.c.. Edge joints shall be centered between joists. End joints shall be staggered one channel spacing.

6b. WALLBOARD FACE LAYER Face layer of wallboard attached to resilient channels through base layer using $1\frac{5}{8}$ in. Type S drywall screws spaced 12 in. o.c., 6 in. o.c. at wallboard end joints, and $1\frac{1}{2}$ in. from panel edges and ends. Edge joints of wallboard face layer offset a distance equal to one joist spacing from those of base layer. End joints shall be offset from base layer joints by a min. of one channel spacing. Additionally, wallboard face layer attached to base layer with $1\frac{1}{2}$ in. Type G drywall screws spaced 8 in. o.c., placed $1\frac{1}{2}$ in. from face layer end joints.

7. FINISH SYSTEM: (Not Shown) Face layer joints covered with tape and coated with joint compound. Screw heads covered with joint compound.



FIRE RATED ASSEMBLIES

PWL/SFSW 120-01



1. FLOOR TOPPING: (Optional, Not Shown)

Gypsum concrete, lightweight or normal concrete topping. When used as a roof assembly, materials for a built-up roof covering that are described in an assembly that provides a Class A, B, or C rating on combustible wood decks may be used.

2. FLOOR SHEATHING: Min. $\frac{5}{8}$ in. thick wood sheathing, designed and installed per Code requirements. When used as a roof assembly, min. $\frac{1}{2}$ in. thick wood sheathing may be used, when designed and installed per Code requirements.

3. INSULATION: (Optional) When installed, insulation shall be installed above the joist flanges and supported by stay wires spaced 12 in. on center (o.c.).

4. CERTIFIED COMPANY: Pinkwood LTD.

CERTIFIED PRODUCT: Wood I-Joist

CERTIFIED MODELS: PKI 60L, PKI 70L, PKI 80L, and PKI 90L I-joist Series.

9 $\frac{1}{2}$ in. min. deep joists spaced a max. of 24 in. o.c. Installed in accordance with the Code.

5. RESILIENT CHANNELS: Min. 0.019 in. thick galvanized steel resilient channels, attached perpendicular to joists using 1 $\frac{5}{8}$ in. long drywall screws. Resilient channels spaced 16 in. o.c. (channels installed after the first layer and used to support the second and third layers of gypsum wallboard).

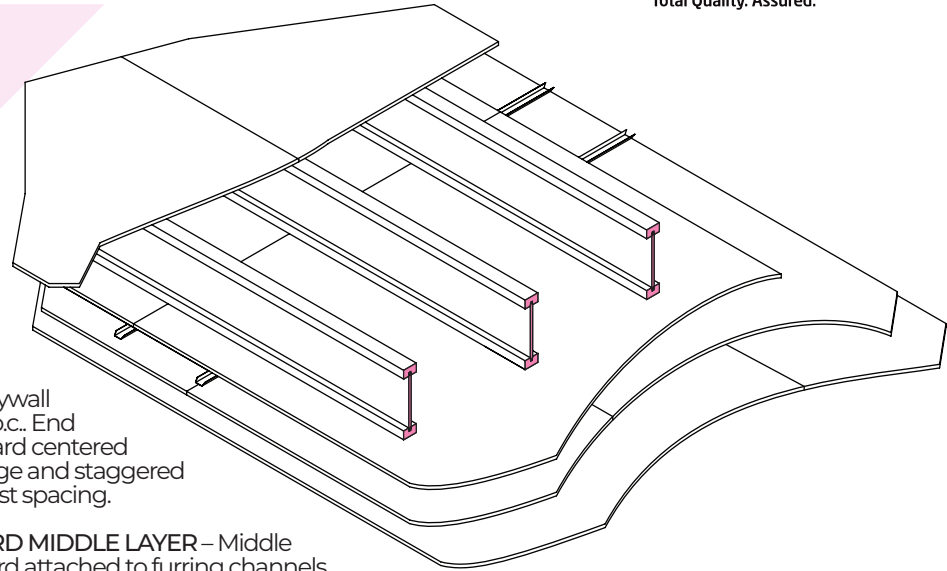
6. GYPSUM WALLBOARD: Three layers of min. $\frac{5}{8}$ in. Type C gypsum wallboard as follows:

6a. WALLBOARD BASE LAYER –

Base layer of wallboard installed perpendicular to the joists and directly attached to the bottom flange using 1 $\frac{5}{8}$ in. Type S drywall screws at 12 in. o.c.. End joints of wallboard centered on bottom flange and staggered a min. of one joist spacing.

6b. WALLBOARD MIDDLE LAYER – Middle layer of wallboard attached to furring channels using 1 in. Type S drywall screws spaced 12 in. o.c., with the long dimension of wallboard perpendicular to furring channels. Edge joints shall be centered on the joists and offset a min. of one joist space from base layer end joints. End joints staggered a min. of one channel spacing and offset from the edge joints in the base layer a min. of one channel spacing.

6c. WALLBOARD FACE LAYER – Face layer of wallboard attached to channels through middle layer using 1 $\frac{5}{8}$ in. Type S drywall screws spaced 8 in. o.c.. Edge joints of face layer of wallboard shall be centered on the joists and offset a min. distance equal to the joist spacing from those of middle layer. End joints of face layer of wallboard staggered

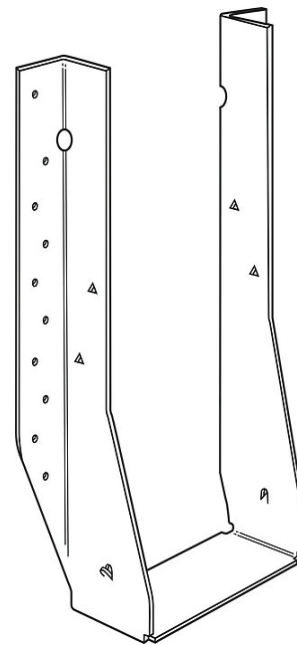
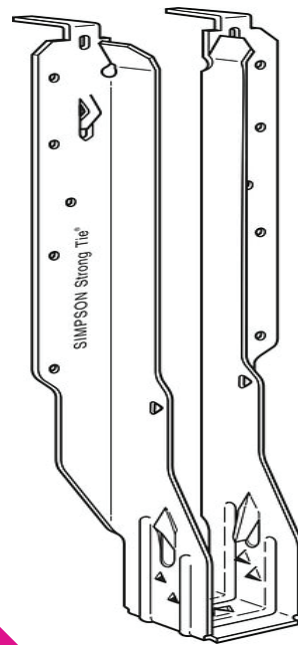


a min. of one channel spacing with respect to the middle layer end joint and base layer edge joint.

7. FINISH SYSTEM: (Not Shown) Face layer joints covered with tape and coated with joint compound. Screw heads covered with joint compound.

FRAMING CONNECTORS

FLOOR AND ROOF CONNECTORS:



FRAMING CONNECTORS - SIMPSON STRONG-TIE®

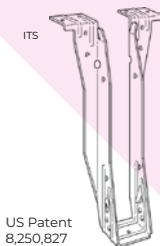
Single I-JOISTS – US Allowable Loads (lb.)



Joist Height	PKI	Top Flange				Face Mount				45° Skew			
		Model	Capacity (lbs.)	Nailing		Model	Capacity (lbs.)	Nailing		Model	Capacity (lbs.)	Nailing	
				Header	Joist			Header	Joist			Header	Joist
9-1/2"	60L	ITS2.06/9.5	See Notes	6-10d	–	IUS2.06/9.5	See Notes	8-10d	–	SUR/L2.06/9	See Notes	14-16d	(2) N10
	70L	ITS2.37/9.5	See Notes	6-10d	–	IUS2.37/9.5	See Notes	8-10d	–	SUR/L2.37/9	See Notes	14-16d	(2) N10
	80L	ITS2.37/9.5	See Notes	6-10d	–	IUS2.37/9.5	See Notes	8-10d	–	SUR/L2.37/9	See Notes	14-16d	(2) N10
	90L	ITS3.56/9.5	See Notes	6-10d	–	IUS3.56/9.5	See Notes	8-10d	–	SUR/L410	See Notes	14-16d	(6) 16d
11-7/8"	60L	ITS2.06/11.88	See Notes	6-10d	–	IUS2.06/11.88	See Notes	10-10d	–	SUR/L2.06/11	See Notes	14-16d	(2) N10
	70L	ITS2.37/11.88	See Notes	6-10d	–	IUS2.37/11.88	See Notes	10-10d	–	SUR/L2.37/11	See Notes	16-16d	(2) N10
	80L	ITS2.37/11.88	See Notes	6-10d	–	IUS2.37/11.88	See Notes	10-10d	–	SUR/L2.37/11	See Notes	14-16d	(2) N10
	90L	ITS3.56/11.88	See Notes	6-10d	–	IUS3.56/11.88	See Notes	10-10d	–	SUR/L410	See Notes	14-16d	(6) 16d
14"	60L	ITS2.06/14	See Notes	6-10d	–	IUS2.06/14	See Notes	12-10d	–	SUR/L2.06/14	See Notes	18-16d	(2) N10
	70L	ITS2.37/14	See Notes	6-10d	–	IUS2.37/14	See Notes	12-10d	–	SUR/L2.37/14	See Notes	18-16d	(2) N10
	80L	ITS2.37/14	See Notes	6-10d	–	IUS2.37/14	See Notes	12-10d	–	SUR/L2.37/14	See Notes	18-16d	(2) N10
	90L	ITS3.56/14	See Notes	6-10d	–	IUS3.56/16	See Notes	12-10d	–	SUR/L414	See Notes	18-16d	(8) 16d
16"	60L	ITS2.06/16	See Notes	6-10d	–	IUS2.06/16	See Notes	14-10d	–	SUR/L2.06/14	See Notes	18-16d	(2) N10
	70L	ITS2.37/16	See Notes	6-10d	–	IUS2.37/16	See Notes	14-10d	–	SUR/L2.37/14	See Notes	18-16d	(2) N10
	80L	ITS2.37/16	See Notes	6-10d	–	IUS2.37/16	See Notes	14-10d	–	SUR/L2.37/14	See Notes	18-16d	(2) N10
	90L	ITS3.56/16	See Notes	6-10d	–	IUS3.56/16	See Notes	14-10d	–	SUR/L414	See Notes	18-16d	(8) 16d
18"	80L	MIT3518	See Notes	8-16d	(2) N10	MIU2.37/18	See Notes	22-16d	(2) N10	SUR/L2.37/14	See Notes	18-16d	(2) N10
	90L	MIT418	See Notes	8-16d	(2) N10	MIU3.56/20	See Notes	24-16d	(2) N10	SUR/L414	See Notes	18-16d	(8) 16d
20"	80L	MIT3518	See Notes	8-16d	(2) N10	MIU2.37/18	See Notes	22-16d	(2) N10	SUR/L2.37/14	See Notes	18-16d	(2) N10
	90L	MIT420	See Notes	8-16d	(2) N10	MIU3.56/20	See Notes	24-16d	(2) N10	SUR/L414	See Notes	18-16d	(8) 16d

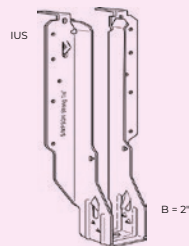
1. Shaded hangers require web stiffeners at joist ends. Joist manufacturers may also require web stiffeners for non-shaded areas.
2. THAI hangers shown are based on the "top flange" installation and require that the carrying member have a horizontal thickness of at least 2 1/2". Install four top nails and two face nails.

3. The LSSR requires web stiffeners that are 4" wide and attached with (4) nails each side.
4. LSSR nails and loads shown are for skewed rafter condition. See Wood Construction Connectors catalog for nailing options with higher loads.
5. For capacity information, contact connector manufacturer for details.



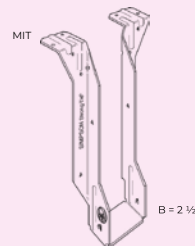
ITS - 18 gauge

The ITS top-flange hanger with its Strong-Grip™ seat and Funnel Flange™ installs faster than any other top-flange hanger. Joist nails are not required. Has uplift resistance of 120 lbs.



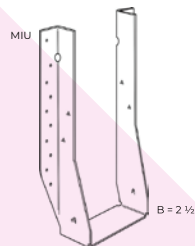
IUS - 18 gauge

The IUS is a hybrid hanger that incorporates the a of both face-mount and top-flange hangers. Joist nails are not required. Has uplift resistance of 70 lbs.



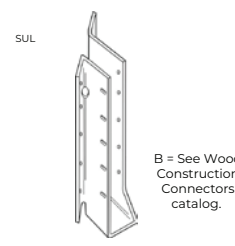
MIT - 16 gauge

The MIT's Positive Angle Nailing helps minimize splitting of the I-joist's bottom flange. Features uplift capacity and extended seat design (to allow installation of slightly undercut joists). Has uplift resistance of 215 lbs.



MIU - 16 gauge

The MIU series features 16-gauge steel and extra nailing for higher loads. Has uplift resistance of 230 lbs.



**SUR/L - 16 gauge
HSUR/L - 14-gauge**

All models are skewed 45°. Normally accommodates a 40°-50° skew. The installation of these hangers does not require a beveled end cut. Has uplift resistance of 165 lbs.

Fastener Sizes

N10 = 0.148" x 1 1/2"

10d = 0.148" x 3"

16d = 0.162" x 3 1/2"

FRAMING CONNECTORS - SIMPSON STRONG-TIE®

SINGLE I-JOISTS – US Allowable Loads (lb.)



Joist Height	PKI	Adjustable Height				Field Slope & Skew			
		Model	Capacity (lbs.)	Nailing		Model	Capacity (lbs.)	Nailing	
				Header	Joist			Header	Joist
9-1/2"	60L	THIA2.06/22	See Notes	6-10d	(2) N10	LSSU2.06	See Notes	9-10d	(9) N10
	70L	THAI3522	See Notes	6-10d	(2) N10	LSSU135	See Notes	9-10d	(9) N10
	80L	THAI3522	See Notes	6-10d	(2) N10	LSSU135	See Notes	9-10d	(9) N10
	90L	THAI422	See Notes	6-10d	(2) N10	LSSU410	See Notes	14-16d	(13) N10
11-7/8"	60L	THIA2.06/22	See Notes	6-10d	(2) N10	LSSU2.06	See Notes	9-10d	(9) N10
	70L	THAI3522	See Notes	6-10d	(2) N10	LSSU135	See Notes	9-10d	(9) N10
	80L	THAI3522	See Notes	6-10d	(2) N10	LSSU135	See Notes	9-10d	(9) N10
	90L	THAI422	See Notes	6-10d	(2) N10	LSSU410	See Notes	14-16d	(13) N10
14"	60L	THIA2.06/22	See Notes	6-10d	(2) N10	LSSU2.06	See Notes	9-10d	(9) N10
	70L	THAI3522	See Notes	6-10d	(2) N10	LSSU135	See Notes	9-10d	(9) N10
	80L	THAI3522	See Notes	6-10d	(2) N10	LSSU135	See Notes	9-10d	(9) N10
	90L	THAI422	See Notes	6-10d	(2) N10	LSSU410	See Notes	14-16d	(13) N10
16"	60L	THIA2.06/22	See Notes	6-10d	(2) N10	LSSU2.06	See Notes	9-10d	(9) N10
	70L	THAI3522	See Notes	6-10d	(2) N10	LSSU135	See Notes	9-10d	(9) N10
	80L	THAI3522	See Notes	6-10d	(2) N10	LSSU135	See Notes	9-10d	(9) N10
	90L	THAI422	See Notes	6-10d	(2) N10	LSSU410	See Notes	14-16d	(13) N10
18"	80L	THAI3522	See Notes	8-16d	(2) N10	LSSU135	See Notes	9-10d	(9) N10
	90L	THAI422	See Notes	8-16d	(2) N10	LSSU410	See Notes	14-16d	(13) N10
20"	80L	THAI3522	See Notes	8-16d	(2) N10	LSSU135	See Notes	9-10d	(9) N10
	90L	THAI422	See Notes	8-16d	(2) N10	LSSU410	See Notes	14-16d	(13) N10

Fastener Sizes

N10 = 0.148" x 1 1/2"

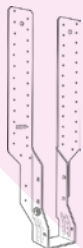
10DN = 0.148" x 2 1/2"

10d = 0.148" x 3"

N16 = 0.162" x 2 1/2"

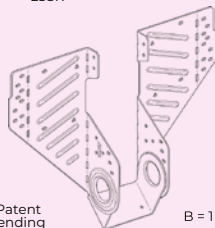
1. See notes on previous page.

THAI



B = 2 1/4"

LSSR



Patent Pending

B = 1 1/4"

THAI - 18 gauge

This hanger has extra-long straps and can be field-formed to give height adjustability and top-flange hanger convenience. Positive angle nailing helps minimize splitting. Strap must be field-formed over the top of the header by a minimum of 2 1/2". Web stiffeners required. No uplift resistance.

LSSR - 18 gauge most models LSSR - 410Z 16-gauge

The LSSR is the next generation of a field-adjustable rafter hanger. It can be installed after all the rafters have been tacked into place, is field-adjustable for skews up to 45° either up or down and features a hinged swivel seat that can adjust its slope 45° either up or down. Has uplift resistance of 510 lbs.

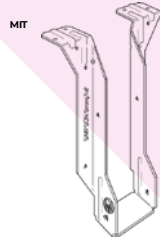
FRAMING CONNECTORS - SIMPSON STRONG-TIE®

DOUBLE I-JOISTS – US Allowable Loads (lb.)

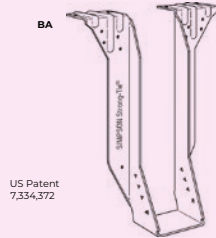


Joist Height	PKI	Top Flange					Face Mount					45° Skew				
		Model	Capacity (lbs.)	Nailing			Model	Capacity (lbs.)	Nailing			Model	Capacity (lbs.)	Nailing		
				Header	Joist				Header	Joist				Header	Joist	
9-1/2"	60L	MIT4.12/9.5	See Notes	8-16d	(2) N10		MIU4.12/9	See Notes	8-10d	(2) N10		HSUR/L4.12/9	See Notes	14-16d	(2) N10	
	70L	MIT359.5-2	See Notes	8-16d	(2) N10		MIU4.75/9	See Notes	8-10d	(2) N10		HSUR/L4.75/9	See Notes	14-16d	(2) N10	
	80L	MIT359.5-2	See Notes	8-16d	(2) N10		MIU4.74/9	See Notes	8-10d	(2) N10		HSUR/L4.75/9	See Notes	14-16d	(2) N10	
	90L	BA7.12/9.5	See Notes	16-16d	(8) N10		HU410-2	See Notes	8-10d	(8) 16d		HU410-2X	See Notes	18-16d	(8) 16d	
11-7/8"	60L	MIT4.12/11.88	See Notes	8-16d	(2) N10		MIU4.12/11	See Notes	10-10d	(2) N10		HSUR/L4.12/11	See Notes	14-16d	(2) N10	
	70L	MIT3511.88-2	See Notes	8-16d	(2) N10		MIU4.75/11	See Notes	10-10d	(2) N10		HSUR/L4.75/11	See Notes	16-16d	(2) N10	
	80L	MIT3511.88-2	See Notes	8-16d	(2) N10		MIU4.75/11	See Notes	10-10d	(2) N10		HSUR/L4.75/11	See Notes	16-16d	(2) N10	
	90L	BA7.12/11.88	See Notes	16-16d	(8) N10		HU412-2	See Notes	10-10d	(8) 16d		HU412-2X	See Notes	22-16d	(8) 16d	
14"	60L	MIT4.12/14	See Notes	8-16d	(2) N10		MIU4.12/14	See Notes	12-10d	(2) N10		HSUR/L4.12/14	See Notes	18-16d	(2) N10	
	70L	MIT3514-2	See Notes	8-16d	(2) N10		MIU4.75/14	See Notes	12-10d	(2) N10		HSUR/L4.75/14	See Notes	18-16d	(2) N10	
	80L	MIT3514-2	See Notes	8-16d	(2) N10		MIU4.75/14	See Notes	12-10d	(2) N10		HSUR/L4.75/14	See Notes	20-16d	(2) N10	
	90L	BA7.12/14	See Notes	16-16d	(8) N10		HU414-2	See Notes	12-10d	(12) 16d		HU414-2x	See Notes	26-16d	(12) 16d	
16"	60L	BA4.12/16	See Notes	8-16d	(2) N10		MIU4.12/16	See Notes	14-10d	(2) N10		HSUR/L4.12/16	See Notes	18-16d	(2) N10	
	70L	MIT4.75/16	See Notes	8-16d	(2) N10		MIU4.75/16	See Notes	14-10d	(2) N10		HSUR/L4.75/16	See Notes	18-16d	(2) N10	
	80L	MIT4.75/16	See Notes	8-16d	(2) N10		MIU4.75/16	See Notes	14-10d	(2) N10		HSUR/L4.75/16	See Notes	24-16d	(2) N10	
	90L	BA7.12/16	See Notes	16-16d	(8) N10		HU414-2	See Notes	14-10d	(12) 16d		HU414-2x	See Notes	26-16d	(12) 16d	
18"	80L	BA4.75/18	See Notes	16-16d	(2) N10		MIU4.75/18	See Notes	22-16d	(2) N10		HSUR/L4.75/16	See Notes	24-16d	(2) N10	
	90L	BA7.12/18	See Notes	16-16d	(8) N10		HU414-2	See Notes	24-16d	(12) 16d		HU414-2x	See Notes	26-16d	(12) 16d	
20"	80L	BA4.75/20	See Notes	16-16d	(2) N10		MIU4.75/20	See Notes	22-16d	(2) N10		HSUR/L4.75/16	See Notes	24-16d	(2) N10	
	90L	BA7.12.18	See Notes	16-16d	(8) N10		HU414-2	See Notes	24-16d	(12) 16d		HU414-2x	See Notes	26-16d	(12) 16d	

- Shaded hangers require web stiffeners at joist end Joist manufacturers may also require web stiffeners for non-shaded areas.
- THAI hangers shown are based on the "top flange" installation and require that the carrying member have a horizontal thickness of at least 2 1/2" Install four top nails and two face nails.
- The LSSR requires web stiffeners that are 4" wide and attached with (4) nails each side.
- LSSR nails and loads shown are for skewed rafter condition. See Wood Construction Connectors catalog for nailing options with higher loads.
- LSUs are not field skewable. (Field-slope only) Skewed option must be special ordered, specify skew angle.
- Skewed option must be special ordered. Specify skew angle and direction (e.g. HU414-2X R45°)
- For capacity information, contact connector manufacturer for details.



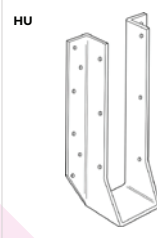
B=2 1/2



B=3



B=2 1/2



B=2 1/2

MIT - 16 gauge

The MIT's Positive Angle Nailing helps minimize splitting of the I-joist's bottom flange. Features uplift capacity and extended seat design (to allow installation of slightly undercut joists). Has uplift resistance of 215 lbs.

BA - 14 gauge

The BA is designed especially for use with multiple ply headers 1 1/2" to 1 3/4" thick, and may be used for weld-on applications. Has uplift resistance of 1,225 lbs.

MIU - 16 gauge

The MIU series features 16 gauge steel and extra nailing for higher loads. Has uplift resistance of 230 lbs.

HU - 14 gauge

The HU series features uplift capacity and a large selection of sizes and load ranges. HU hangers have triangle holes that can be filled for increased loads. Web stiffeners required. See Wood Construction Connectors catalog for uplift resistance.

Fastener Sizes

N10 = 0.148" x 1 1/2"

16d = 0.162" x 3 1/2"

FRAMING CONNECTORS - SIMPSON STRONG-TIE®

DOUBLE I-JOISTS – US Allowable Loads (lb.)



Joist Height	PKI	Adjustable Height				Field Slope & Skew			
		Model	Capacity (lbs.)	Nailing		Model	Capacity (lbs.)	Nailing	
				Header	Joist			Header	Joist
9-1/2"	60L	THAI-2 (W=4.125)	See Notes	6-10d	(2) N10	LSU4.12	See Notes	(24) 16d	(16) N10
	70L	THAI-2 (W=4.75)	See Notes	6-10d	(2) N10	LSU3510-2	See Notes	(24) 16d	(16) N10
	80L	THAI-2 (W=4.75)	See Notes	6-10d	(2) N10	LSU3510-2	See Notes	(24) 16d	(16) N10
	90L	See Notes	See Notes			See Notes	See Notes		
11-7/8"	60L	THAI-2 (W=4.125)	See Notes	6-10d	(2) N10	LSU4.12	See Notes	(24) 16d	(16) N10
	70L	THAI-2 (W=4.75)	See Notes	6-10d	(2) N10	LSU3510-2	See Notes	(24) 16d	(16) N10
	80L	THAI-2 (W=4.75)	See Notes	6-10d	(2) N10	LSU3510-2	See Notes	(24) 16d	(16) N10
	90L	See Notes	See Notes			See Notes	See Notes		
14"	60L	THAI-2 (W=4.125)	See Notes	6-10d	(2) N10	LSU4.12	See Notes	(24) 16d	(16) N10
	70L	THAI-2 (W=4.75)	See Notes	6-10d	(2) N10	LSU3510-2	See Notes	(24) 16d	(16) N10
	80L	THAI-2 (W=4.75)	See Notes	6-10d	(2) N10	LSU3510-2	See Notes	(24) 16d	(16) N10
	90L	See Notes	See Notes			See Notes	See Notes		
16"	60L	See Notes	See Notes			See Notes	See Notes		
	70L	See Notes	See Notes			See Notes	See Notes		
	80L	See Notes	See Notes			See Notes	See Notes		
	90L	See Notes	See Notes			See Notes	See Notes		
18"	80L	See Notes	See Notes			See Notes	See Notes		
	90L	See Notes	See Notes			See Notes	See Notes		
20"	80L	See Notes	See Notes			See Notes	See Notes		
	90L	See Notes	See Notes			See Notes	See Notes		

Fastener Sizes

N10 = 0.148" x 1 1/2"

10d = 0.148" x 3"

16d = 0.162" x 3 1/2"

1. See notes on previous page.

THAI/
THAI-2

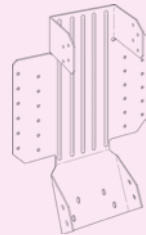


B = See Wood Construction Connectors catalog.

THAI - 18 gauge THAI-2 - 14 gauge

This hanger has extra-long straps and can be field-formed to give height adjustability and top-flange hanger convenience. Positive angle nailing helps minimize splitting. Strap must be field-formed over the top of the header by a minimum of 2 1/2". Web stiffeners required. No uplift resistance.

LSU



B=3 1/2"

LSU - 14 gauge

LSU models provide uplift capacity and can be field sloped and/or skewed to 45°. Web stiffeners required when used with I-Joists. See Wood Construction Connectors catalog for uplift resistance.

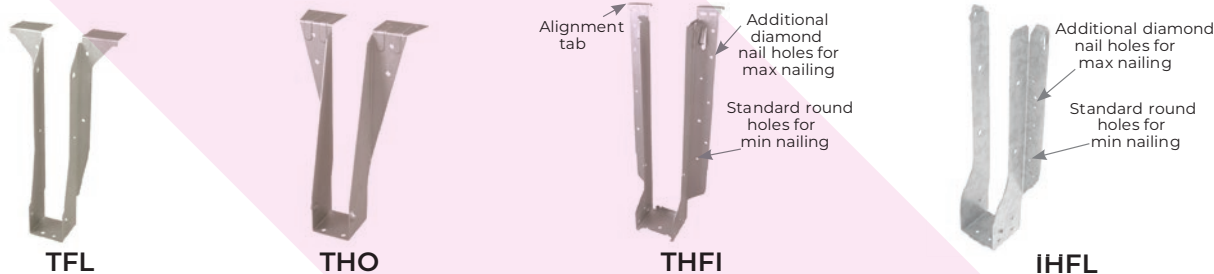
FRAMING CONNECTORS - MiTek®

SINGLE I-JOISTS – US Allowable Loads (lb.)

MiTek®

Joist Height	PKI	Top Flange				Face Mount			
		Model	Capacity (lbs.)	Nailing		Model	Capacity (lbs.)	Nailing	
				Header	Joist			Header	Joist
9-1/2"	60L	TFL2095	See Notes	6-10d	(2) 10dx1-1/2"	IHFL20925	See Notes	8-10d	-
	70L	TFL2395	See Notes	6-10d	(2) 10dx1-1/2"	IHFL23925	See Notes	8-10d	-
	80L	TFL2395	See Notes	6-10d	(2) 10dx1-1/2"	IHFL23925	See Notes	8-10d	-
	90L	THO35950	See Notes	10-10d	(2) 10dx1-1/2"	IHFL34925	See Notes	10-10d	-
11-7/8"	60L	TFL20118	See Notes	6-10d	(2) 10dx1-1/2"	IHFL20112	See Notes	10-10d	-
	70L	TFL23118	See Notes	6-10d	(2) 10dx1-1/2"	IHFL23112	See Notes	10-10d	-
	80L	TFL23118	See Notes	6-10d	(2) 10dx1-1/2"	IHFL23112	See Notes	10-10d	-
	90L	THO25118	See Notes	10-10d	(2) 10dx1-1/2"	IHFL35112	See Notes	12-10d	-
14"	60L	TFL2014	See Notes	6-10d	(2) 10dx1-1/2"	IHFL2014	See Notes	14-10d	-
	70L	TFL2314	See Notes	6-10d	(2) 10dx1-1/2"	IHFL2314	See Notes	14-10d	-
	80L	TFL2314	See Notes	6-10d	(2) 10dx1-1/2"	IHFL2416	See Notes	14-10d	-
	90L	THO35140	See Notes	12-10d	(2) 10dx1-1/2"	IHFL3514	See Notes	14-10d	-
16"	60L	TFL2016	See Notes	6-10d	(2) 10dx1-1/2"	IHFL2016	See Notes	14-10d	-
	70L	TFL2316	See Notes	6-10d	(2) 10dx1-1/2"	IHFL2316	See Notes	14-10d	-
	80L	TFL2316	See Notes	6-10d	(2) 10dx1-1/2"	IHFL2316	See Notes	14-10d	-
	90L	THO35160	See Notes	12-10d	(2) 10dx1-1/2"	IHFL3516	See Notes	14-10d	-
18"	80L	TFI3518	See Notes	6-16d	(2) 10dx1-1/2"	IHFL2316	See Notes	14-10d	-
	90L	TFI418	See Notes	6-16d	(2) 10dx1-1/2"	IHFL3516	See Notes	14-10d	-
20"	80L	TFI3520	See Notes	6-16d	(2) 10dx1-1/2"	IHFL2316	See Notes	14-10d	-
	90L	TFI420	See Notes	6-16d	(2) 10dx1-1/2"	IHFL3516	See Notes	14-10d	-

- 1: Shaded hangers require web stiffeners at joist ends. Web stiffeners may be required for non-shaded hangers by PinkWood.
- 2: Loads listed are based on hanger attachment to a DF or S-P-F species solid sawn or LVL header. Some loads may be increased for duration of load adjustments. Refer to MiTek USP Product Catalog for details.
- 3: Uplift loads have been increased 60% for wind and seismic loading; no further increase shall be permitted.
- 4: Top Mount Hangers assume supporting headers to have a minimum height of 5 1/2" and a minimum thickness of the length of the top flange, whichever is greater. For wood nailer options or header materials not included in this table, refer to the current MiTek USP Product Catalog.
- 5: **NAILS:** 10d x 1 1/2" nails are 0.148" diameter x 1 1/2" long, 10d nails are 0.148" diameter x 3" long.
- 6: For capacity information, contact connector manufacturer for details.



FRAMING CONNECTORS - MiTek®

SINGLE I-JOISTS – US Allowable Loads (lb.)

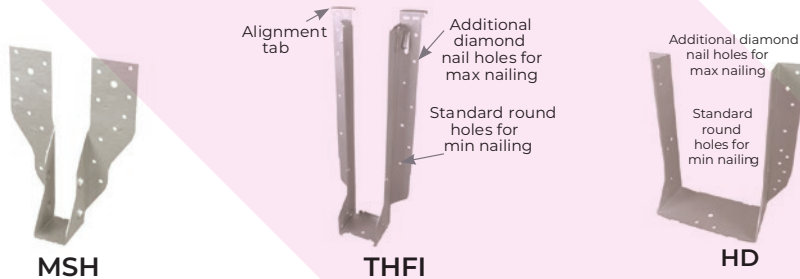
MiTek®

Joist Height	PKI	Adjustable Height				45° Skew			
		Model	Capacity (lbs.)	Nailing		Model	Capacity (lbs.)	Nailing	
				Header	Joist			Header	Joist
9-1/2"	60L	MSH2022	See Notes	6-10d	(4) 10d	SKH2020L/R	See Notes	14-10d	(10) 10dx1-1/2"
	70L	MSH2322	See Notes	6-10d	(4) 10d	SKH2320L/R	See Notes	14-10d	(10) 10dx1-1/2"
	80L	MSH2322	See Notes	6-10d	(4) 10d	SKH2320L/R	See Notes	14-10d	(10) 10dx1-1/2"
	90L	MSH422	See Notes	6-10d	(6) 10d	HD410_SK45L/R_BV	See Notes	14-16d	(10) 10dx1-1/2"
11-7/8"	60L	MSH2022	See Notes	6-10d	(4) 10dx1-1/2"	SKH2020L/R	See Notes	14-10d	(10) 10dx1-1/2"
	70L	MSH2322	See Notes	6-10d	(4) 10dx1-1/2"	SKH2320L/R	See Notes	14-10d	(10) 10dx1-1/2"
	80L	MSH2322	See Notes	6-10d	(4) 10dx1-1/2"	SKH2320L/R	See Notes	14-10d	(10) 10dx1-1/2"
	90L	MSH422	See Notes	6-10d	(6) 10d	HD410_SK45L/R_BV	See Notes	14-16d	(10) 10dx1-1/2"
14"	60L	MSH2022	See Notes	6-10d	(4) 10dx1-1/2"	SKH2024L/R	See Notes	16-10d	(10) 10dx1-1/2"
	70L	MSH2322	See Notes	6-10d	(4) 10dx1-1/2"	SKH2324L/R	See Notes	16-10d	(10) 10dx1-1/2"
	80L	MSH2322	See Notes	6-10d	(4) 10dx1-1/2"	SKH2324L/R	See Notes	16-10d	(10) 10dx1-1/2"
	90L	MSH422	See Notes	6-10d	(6) 10d	HD414_SK45L/R_BV	See Notes	18-16d	(10) 10dx1-1/2"
16"	60L	MSH2022	See Notes	6-10d	(4) 10dx1-1/2"	SKH2024L/R	See Notes	16-10d	(10) 10dx1-1/2"
	70L	MSH2322	See Notes	6-10d	(4) 10dx1-1/2"	SKH2324L/R	See Notes	16-10d	(10) 10dx1-1/2"
	80L	MSH2322	See Notes	6-10d	(4) 10dx1-1/2"	SKH2324L/R	See Notes	16-10d	(10) 10dx1-1/2"
	90L	MSH422	See Notes	6-10d	(6) 10d	HD414_SK45L/R_BV	See Notes	18-16d	(6) 10d
18"	80L	MSH2022	See Notes	8-16d	(4) 10dx1-1/2"	SKH2324L/R	See Notes	16-10d	(10) 10dx1-1/2"
	90L	MSH2322	See Notes	8-16d	(6) 10d	HD414_SK45L/R_BV	See Notes	18-16d	(8) 10d
20"	80L	MSH2322	See Notes	8-16d	(4) 10dx1-1/2"	SKH2324L/R	See Notes	16-10d	(10) 10dx1-1/2"
	90L	MSH422	See Notes	8-16d	(6) 10d	HD414_SK45L/R_BV	See Notes	18-16d	(8) 10d

- 1: Shaded hangers require web stiffeners at joist ends.
- 2: Loads listed are based on hanger attachment to a DF or S-P-F species solid sawn or LVL header. Some loads may be increased for duration of load adjustments. Refer to MiTek USP Product Catalog for details.
- 3: Uplift loads have been increased 60% for wind and seismic loading; no further increase shall be permitted.
- 4: Bevel cut required on end of joist to achieve design loads.
- 5: MSH allowable loads listed in this table assume Top-Min mounting condition

installed with 4 - 10d top nails and 2 - 10d face nails. For MSH Face-Max and Top-Max mounting conditions not included in this table, refer to the current MiTek USP Product Catalog.

- 6: Flanges on the bucket of the hanger may extend above the top of the joist.
- 7: **NAILS:** 10d x 1 1/2" nails are 0.148" dia. x 1 1/2" long, 10d nails are 0.148" dia. x 3" long, 16d nails are 0.162" dia. x 3 1/2" long.
- 8: For capacity information, contact connector manufacturer for details.



FRAMING CONNECTORS - MiTek®

DOUBLE I-JOISTS – US Allowable Loads (lb.)

MiTek®

Joist Height	PKI	Top Flange				Face Mount			
		Model	Capacity (lbs.)	Nailing		Model	Capacity (lbs.)	Nailing	
				Header	Joist			Header	Joist
9-1/2"	60L	THO20950-2	See Notes	10-16d	(6) 10d	IHF20925-2	See Notes	10-10d	(2) 10dx1-1/2"
	70L	THO23950-2	See Notes	10-16d	(6) 10d	IHF23925-2	See Notes	10-10d	(2) 10dx1-1/2"
	80L	THO23950-2	See Notes	10-16d	(6) 10d	IHF23925-2	See Notes	16-10d	(6) 10d
	90L	BPH7195	See Notes	10-16d	(6) 10d	HD7095	See Notes	16-16d	(6) 10d
11-7/8"	60L	THO20118-2	See Notes	10-16d	(6) 10d	IFH20112-2	See Notes	10-10d	(2) 10dx1-1/2"
	70L	THO23118-2	See Notes	10-16d	(6) 10d	IFH23112-2	See Notes	16-10d	(6) 10d
	80L	THO23118-2	See Notes	10-16d	(6) 10d	IFH23112-2	See Notes	16-10d	(6) 10d
	90L	BPH71118	See Notes	10-16d	(6) 10d	HD7120	See Notes	16-16d	(6) 10d
14"	60L	THO20140-2	See Notes	10-16d	(6) 10d	IFH2014-2	See Notes	12-10d	(2) 10dx1-1/2"
	70L	THO23114-2	See Notes	12-16d	(6) 10d	IFH2314-2	See Notes	20-10d	(6) 10d
	80L	THO23114-2	See Notes	12-16d	(6) 10d	IFH2314-2	See Notes	20-10d	(6) 10d
	90L	BPH7114	See Notes	10-16d	(6) 10d	HD7140	See Notes	20-16d	(8) 10d
16"	60L	THO20160-2	See Notes	10-16d	(6) 10d	IHF2014-2	See Notes	12-10d	(2) 10dx1-1/2"
	70L	THO23160-2	See Notes	12-16d	(6) 10d	IFH23160-2	See Notes	24-10d	(6) 10d
	80L	THO23160-2	See Notes	12-16d	(6) 10d	IFH23160-2	See Notes	24-10d	(6) 10d
	90L	BPH7116	See Notes	10-16d	(6) 10d	HD7160	See Notes	24-16d	(8) 10d
18"	80L	THO23180-2	See Notes	14-16d	(6) 10d	THF23160-2	See Notes	24-10d	(6) 10d
	90L	BPH7118	See Notes	10-16d	(6) 10d	HD7160	See Notes	24-16d	(8) 10d
20"	80L	THO23200-2	See Notes	14-16d	(6) 10d	THF23160-2	See Notes	24-10d	(6) 10d
	90L	BPH7120	See Notes	10-16d	(6) 10d	HD7160	See Notes	24-16d	(8) 10d

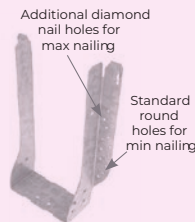
- 1: Shaded hangers require web stiffeners at joist ends.
- 2: Loads listed are based on hanger attachment to a DF or S-P-F species solid sawn or LVL header. Some loads may be increased for duration of load adjustments. Refer to MiTek USP Product Catalog for details.
- 3: Uplift loads have been increased 60% for wind and seismic loading; no further increase shall be permitted.
- 4: Top Mount Hangers assume supporting headers to have a minimum height of 5 1/2" and a minimum thickness of the length of the header nails or the depth of the top flange, whichever is greater. For wood nailer options or header materials not included in this table, refer to the current MiTek USP Product Catalog.
- 5: **NAILS:** 10d nails are 0.148" dia. x 3" long, 16d nails are 0.162" dia. x 3 1/2" long. 16d sinkers are 0.148" dia. x 3 1/4" long and may be used where 10d commons are specified.
- 6: For capacity information, contact connector manufacturer for details.



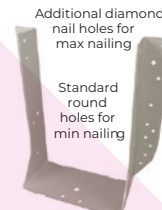
THO Double



THF Double



IHF



HD

FRAMING CONNECTORS - MiTek®

DOUBLE I-JOISTS – US Allowable Loads (lb.)

MiTek®

Joist Height	PKI	Adjustable Height				45° Skew			
		Model	Capacity (lbs.)	Nailing		Model	Capacity (lbs.)	Nailing	
				Header	Joist			Header	Joist
9-1/2"	60L	Consult MiTek Product Catalog for Specialty Hanger				SKH2020L/R-2	See Notes	14-10d	(10) 10d
	70L	MSH2322-2	See Notes	6-10d	(4) 10d	SKH2320L/R-2	See Notes	14-10d	(10) 10d
	80L	MSH2322-1	See Notes	6-10d	(4) 10d	SKH2320L/R-2	See Notes	16-10d	(10) 10d
	90L	MSH422-2	See Notes	8-16d	(6) 16d	HD7095-SK45L/R_BV	See Notes	16-16d	(8) 16d
11-7/8"	60L	Consult MiTek Product Catalog for Specialty Hanger				SKH2020L/R-2	See Notes	14-10d	(10) 10d
	70L	MSH2322-2	See Notes	6-10d	(4) 10d	SKH2320L/R-2	See Notes	14-10d	(10) 10d
	80L	MSH2322-2	See Notes	6-10d	(4) 10d	SKH2320L/R-2	See Notes	16-10d	(10) 10d
	90L	MSH422-2	See Notes	8-16d	(6) 16d	HD7120-SK45L/R_BV	See Notes	16-16d	(8) 16d
14"	60L	Consult MiTek Product Catalog for Specialty Hanger				SKH2024L/R-2	See Notes	16-10d	(10) 10d
	70L	MSH2322-2	See Notes	6-10d	(4) 10d	SKH2324L/R-2	See Notes	14-10d	(10) 10d
	80L	MSH2322-2	See Notes	6-10d	(4) 10d	SKH2324L/R-2	See Notes	16-10d	(10) 10d
	90L	MSH422-2	See Notes	8-16d	(6) 16d	HD7140-SK45L/R_BV	See Notes	20-16d	(8) 16d
16"	60L	Consult MiTek Product Catalog for Specialty Hanger				SKH2024L/R-2	See Notes	16-10d	(10) 10d
	70L	MSH2322-2	See Notes	6-10d	(4) 10d	SKH2324L/R-2	See Notes	14-10d	(10) 10d
	80L	MSH2322-2	See Notes	6-10d	(4) 10d	SKH2324L/R-2	See Notes	16-10d	(10) 10d
	90L	MSH422-2	See Notes	8-16d	(6) 16d	HD7140-SK45L/R_BV	See Notes	20-16d	(8) 16d
18"	80L	MSH2322-1	See Notes	6-10d	(4) 10d	SKH2324L/R-2	See Notes	16-10d	(10) 10d
	90L	MSH422-2	See Notes	8-16d	(6) 16d	HD7180-SK45L/R_BV	See Notes	28-16d	(8) 16d
20"	80L	MSH2322-1	See Notes	6-10d	(4) 10d	-	-	-	-
	90L	MSH422-2	See Notes	8-16d	(6) 16d	HD7180-SK45L/R_BV	See Notes	28-16d	(8) 16d

- 1: Shaded hangers require web stiffeners at joist ends.
- 2: Loads listed are based on hanger attachment to a DF or S-P-F species solid sawn or LVL header. Some loads may be increased for duration of load adjustments. Refer to MiTek USP Product Catalog for details.
- 3: Uplift loads have been increased 60% for wind and seismic loading; no further increase shall be permitted.
- 4: Hangers are special order. Consult MiTek for pricing and lead times.
- 5: Bevel cut required on end of joist to achieve design loads.
- 6: MSH allowable loads listed in this table assume Top-Min mounting condition. For MSH Face-Max and Top-Max mounting conditions not included in this table, refer to the current MiTek USP Product Catalog.
- 7: Flanges on the bucket of the hanger may extend above the top of the joist.
- 8: **NAILS:** 10d nails are 0.148" dia. x 3" long and 16d nails are 0.162" dia. x 3 1/2" long. 16d sinkers are 0.148" dia. x 3 1/4" long and may be used where 10d commons are specified.
- 9: For capacity information, contact connector manufacturer for details.



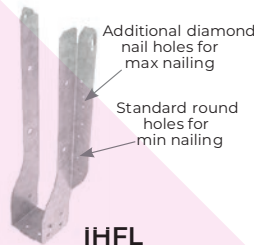
MSH



SKH_L
left shown



SKH_R Double
right shown



IHFL

DESIGN SOFTWARE

XP-USA's PKI Series I-joists are available in both Simpson Strong Tie and MiTek Software, the two leading third-party software suites that makes it seamless for engineers and design professionals to offer their clients the benefits of the PKI product line with minimal effort and maximum flexibility.

change EWP
flier cover

Simpson Strong-Tie® Building Technology Data Sheet

EWP Studio™

Modeling and Structural Analysis Software

Description/Overview

Component Solutions® EWP Studio™ combines 3D layout, member design and material reporting. Choose from a wide array of EWP manufacturers' products and specify Simpson Strong-Tie connectors and fasteners with confidence. From single-member designs to complex, multi-level layouts, the flexibility of CS EWP Studio makes it an optimal design solution. Since CS EWP Studio supports most EWP products, as well as steel and dimensional lumber, it is your comprehensive design solution that adapts with you, regardless of EWP manufacturer.

Features

- Supports most engineered wood products available in the market in a single platform
- Loads are automatically distributed throughout the 3D model and applied to structural members
- Structural members are analyzed to meet or exceed design criteria, including Simpson Strong-Tie connectors and fasteners
- Utilize a wide array of tools to customize material reports and layouts for your final jobsite documents
- EWP Studio supports the IFC standard allowing building professionals to share relevant BIM data between CS EWP Studio, CS Truss Studio,™ and other BIM applications
- Configure and export project material data to point of sale and enterprise resource planning systems, including Pipeline for your estimating needs and CS Director™ for truss components
- Connects remote designers and users from different locations allowing access to shared material data, graphics libraries and project files

MORE INFO

Let's continue the conversation. Contact your Simpson Strong-Tie Building Technology Representative at (800) 999-5099 to find the right software solution for your business.

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SAPPHIRE SUPPLY SOFTWARE ADVANTAGES

Designed to meet the needs of building material suppliers, MiTek's SAPPHIRE Supply is the one-stop solution for wholehouse estimating, framing layout and design.

CONFIDENCE IN YOUR ESTIMATES

- You (and your customers!) can be confident that your estimates and quotes are complete and accurate.
- Precisely lay out the framing members in 3D - eliminate "guesstimates."
- Produce a traceable, verifiable Bill of Materials - one that can visually track the materials needed for the project.

MAXIMIZE YOUR PRODUCTIVITY

- No need to learn multiple EWP software platforms, SAPPHIRE Supply includes the leading EWP manufacturers' products and design data.
- Simplify the software tools your team uses. This single software solution allows you to provide EWP design and layout AND whole-house estimates without multiple entry.
- Collaborate with your CM, sharing a single model to reduce multiple entry, multiple assumptions, and unnecessary errors.

OFFER A DIFFERENTIATED APPROACH

- Help your customers identify and resolve potential constructability issues before the home is shipped, and provide verification of its Buildability™.
- Other suppliers only provide a list of materials, but you can provide the list AND the installation guide, including a 3D model of the framed home.
- Through SAPPHIRE Viewer, offer your customers the benefits of collaboration by viewing and confirming your model and material quantities during the estimating process.
- Empower your customers' construction through Viewer, a superb tool for superintendents and framers.

FEATURES

- + 3D Virtual Framing Model
- + EWP Dimension Lumber Layout and Design
- + Automated Hanger Selection
- + Point of Sale Integration
- + SAPPHIRE Viewer Collaboration
- + Generate more accurate quantities on all the materials you want to sell.
- + Customizable quote to fit your needs

MiTek
SAPPHIRE SUPPLY
Software

For more information, call 800.328.5934 or go to:
Mitek-us.com/software/SAPPHIRE-Supply/

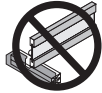
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SAFETY WARNINGS AND RESTRICTIONS

PRODUCT STORAGE

Protect products from sun and water.
Caution: Wrap is slippery when wet.
Use support blocks at 10' on center to keep products out of mud and water.

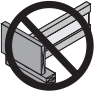
SAFETY PRECAUTIONS



DO NOT...
drill any holes
over a support.



DO NOT...
cut or notch
top or bottom
cords.



DO NOT...
use conventional
lumber for structural
rim or band board.



DO NOT...
install joists on
an angle.



DO NOT...
split the flange.
Ensure proper toe
nailing.



DO NOT...
bevel cut the joist
past the inside
face of wall.



DO NOT...
use conventional
lumber combined
with PKI Joists as
built-up.



DO NOT...
prolong exposure
to the elements,
(rain, snow, sun)
either on site or at
lumber yard.

WARNING

Joists are
unstable
until braced
laterally.

Bracing
includes:

- Blocking
- Hangers
- Rim Board
- Sheathing
- Rim
- Strut Lines

**Lack of proper bracing during construction can result in serious injuries.
Follow these guidelines:**

1. All blocking, hangers, rim boards and rim joists at the end supports of the PKI Joists must be completely installed and properly nailed.
2. Lateral strength, like a braced end wall or an existing deck, must be established at the end of the bay. This can also be accomplished by a temporary or permanent deck (sheathing) fastened to the first four feet of joists at the end of the bay.
3. Safety bracing of 1x4 (minimum) must be nailed to a braced end wall or sheathed area (as in #2) and to each joist. Without this bracing, buckling sideways or rollover is highly probable under light construction loads - such as a worker or one layer of unnailed sheathing.
4. Sheathing must be completely attached to each PKI Joist before additional loads can be placed on the system.
5. Ends of cantilevers require safety bracing on both the top and the bottom flanges.
6. The flanges must remain straight within a tolerance of a 1/2" from true alignment.



DO NOT... walk on joists
until braced. INJURY
CAN OCCUR.



DO NOT... stack building
materials on unsheathed joists.
Stack only over beams or walls.



DO NOT... walk on joists
that are lying flat.

LIMITED LIFETIME WARRANTY - QUALITY AND PERFORMANCE

Pinkwood's PKjoist

What Is Covered?

Pinkwood joists are manufactured to meet or exceed the rigorous engineering and testing standards set by every major code approval agency in North America.

Conditions of Use and Limitations

All Pinkwood joist products are unconditionally guaranteed to be free of manufacturing defects. When install and handled as per Pinkwood's PKjoist Installation Guide, the joists will perform in accordance with the published structural specifications. Limitations include:

- Fungal growth, natural disaster, or any other cause beyond Pinkwood's control.
- Defects in the residential structure due to construction and installation errors.
- Damage to the product prior to, during, or after installation.
- Noncompliance with installation instructions, applicable building code or generally accepted construction practices.
- Any alterations to the Pinkwood Products which fall outside of its Evaluation Services report.
- Mold, fungal decay or rot; termites or termite damage.
- Pressure or topical treatment not approved by Pinkwood Ltd.
- Fire events and loading that are in excess of standardized E119 testing protocols.

Note: Like any wood product, all wood-based joists may be at risk for fungal decay or rot when exposed to repeated wetting or high-moisture environments, particularly if not properly ventilated or subjected to water leaks. For this reason, building construction, design and use features must ensure that all Pinkwood products are protected from such exposure by accepted construction practices and adherence to applicable building codes.

Manufacturer's Rights

In the unlikely event that a problem occurs due to a manufacturing defect, Pinkwood Ltd. or one of its assigned representatives shall be given a reasonable opportunity to inspect the product on site. If this evaluation reveals a problem due to manufacturing defects, the situation shall be promptly corrected.

What You Must Do

You must notify Pinkwood Ltd. in writing of any claim under this warranty within 30 days of the discovery of covered condition at the following address: XP-EWP, 14523 S. Palo Alto Dr., Herriman, UT 84096.

Upon request, you must provide Pinkwood with reasonable proof of product identification in the form of a sample, a photo-graph of the identifying stamp, or dated receipt.

Incidental or Consequential Damages

Pinkwood's sole responsibility is as set forth in this warranty and Pinkwood nor its agents will not be responsible for incidental, indirect or consequential damages unless such damages are legally authorized by state and/or provincial statutes.

[illegible]

For more information about PKjoists and XP-EWP Engineered Wood Products
visit our website at: www.XP-EWP.com

Your Dealer is:

If no dealer is listed, call 702-400-2195



For further information and sales contact:
Email: info@XP-EWP.com
Website: WWW.XP-EWP.COM

XP-EWP
14523 S. Palo Alto Dr.
Herriman, UT 84096
702-400-2195

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