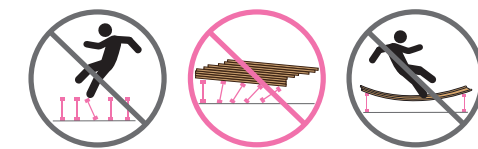


# PINKWOOD Canadian Handling & Installation Recommendations



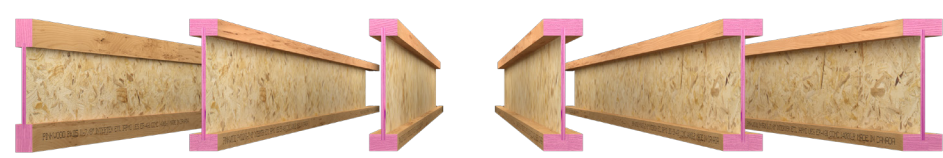
**DO NOT** walk on joists until braced. **INJURY CAN OCCUR**

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

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

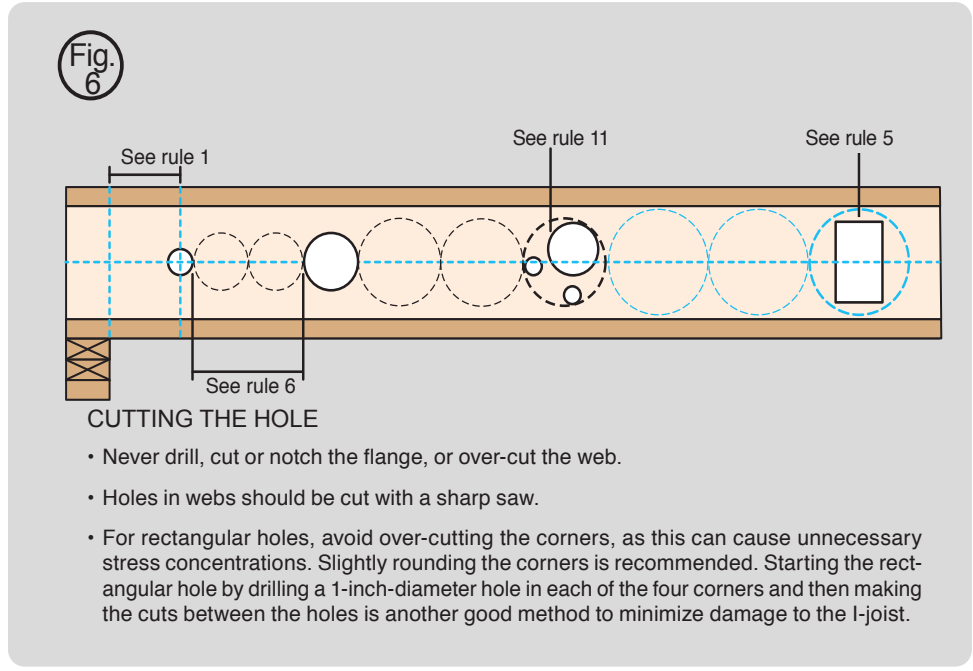
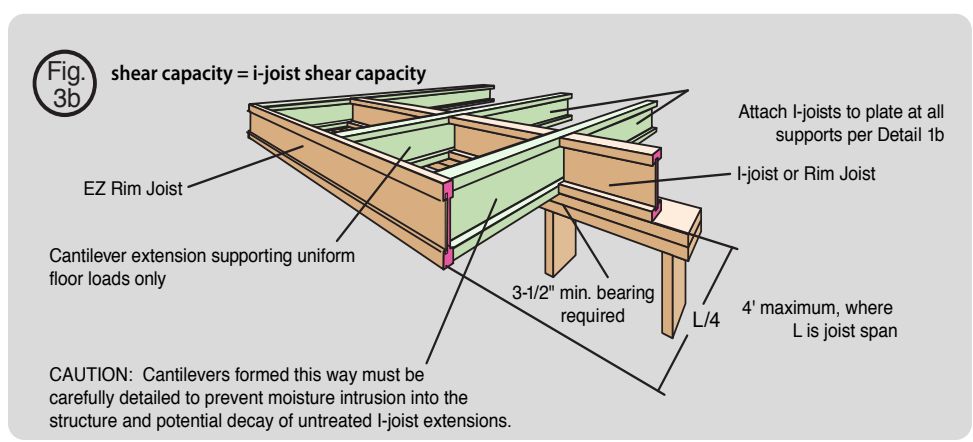
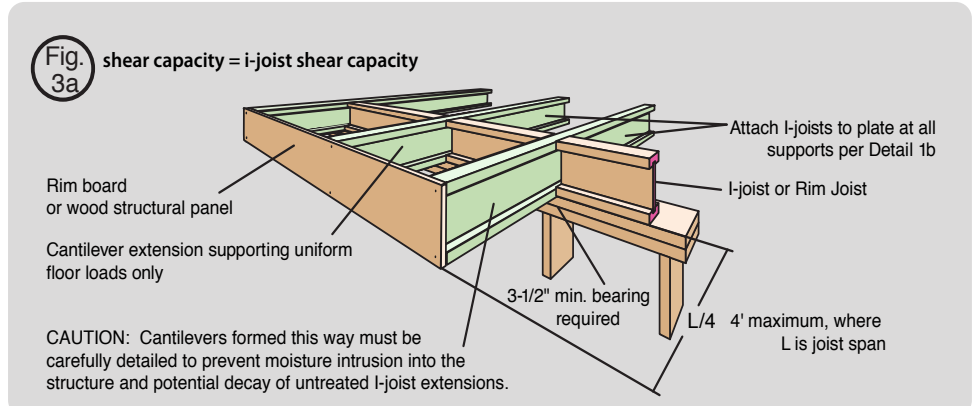
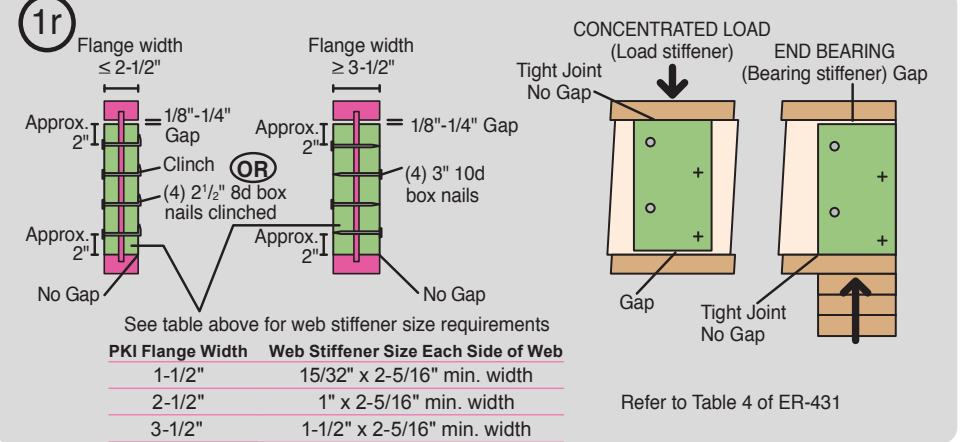
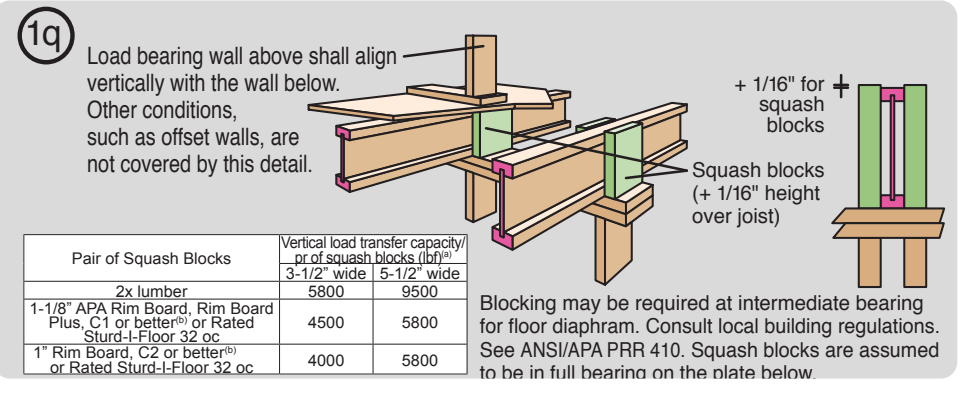
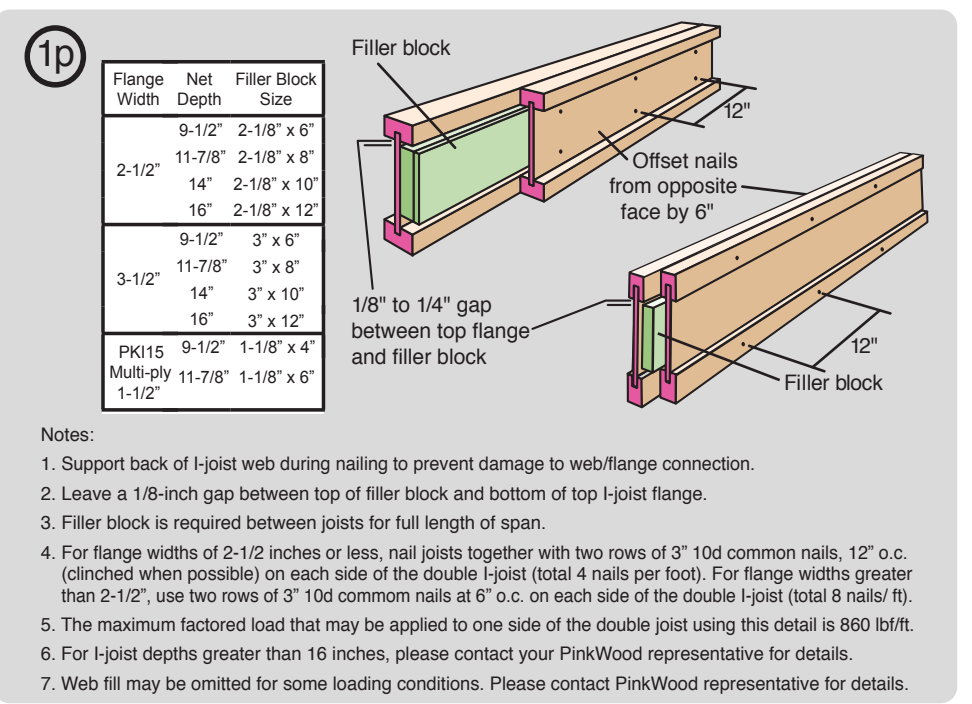
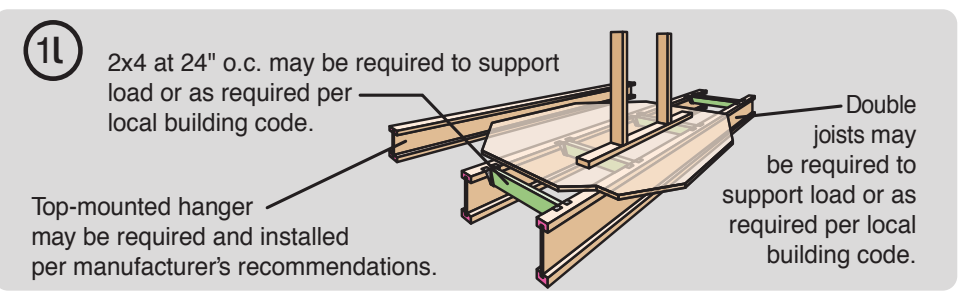
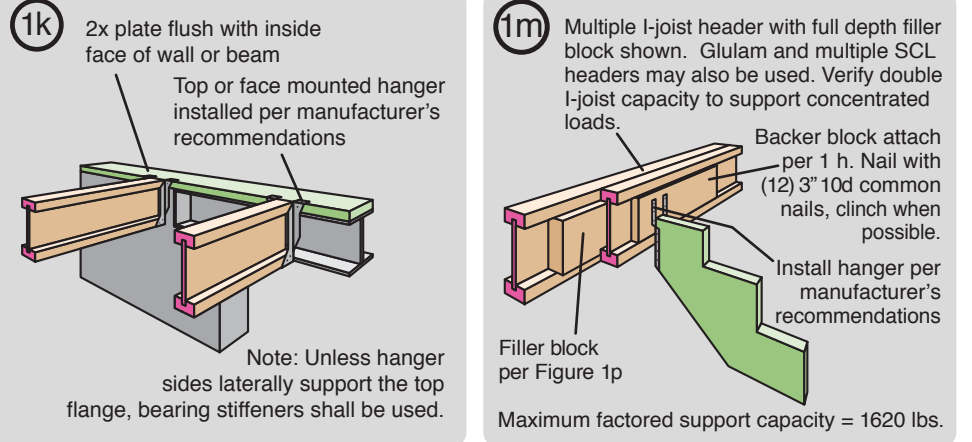
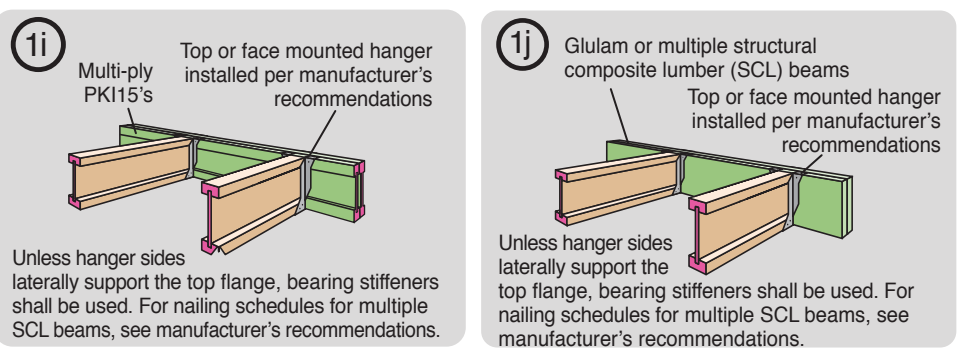
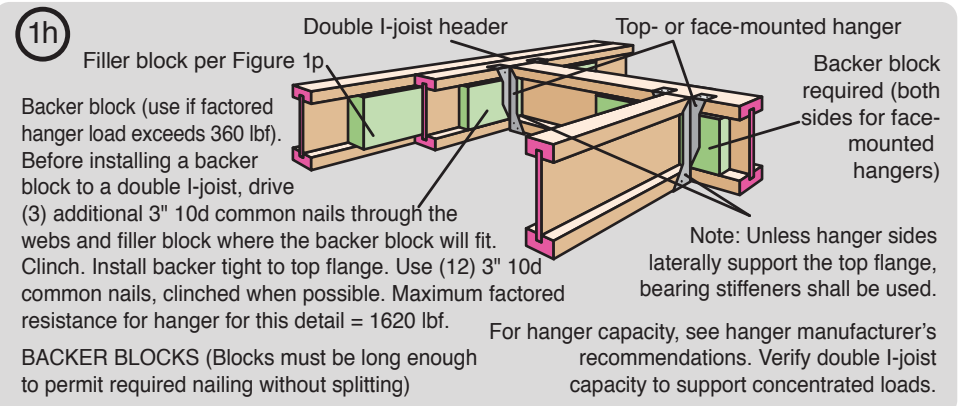
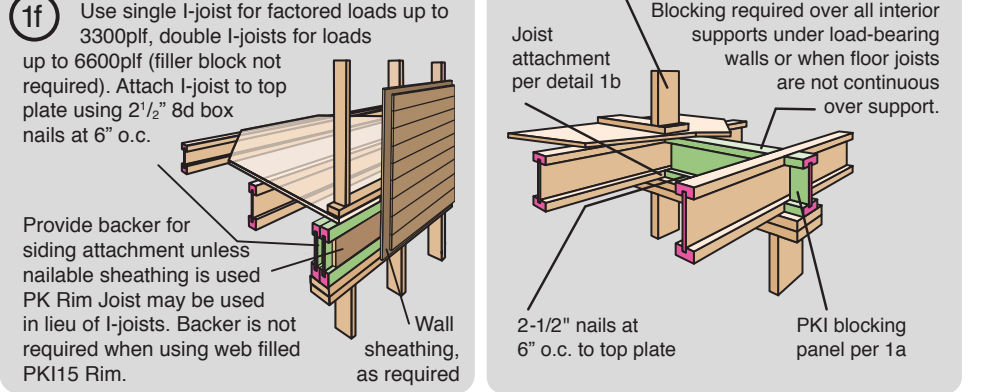
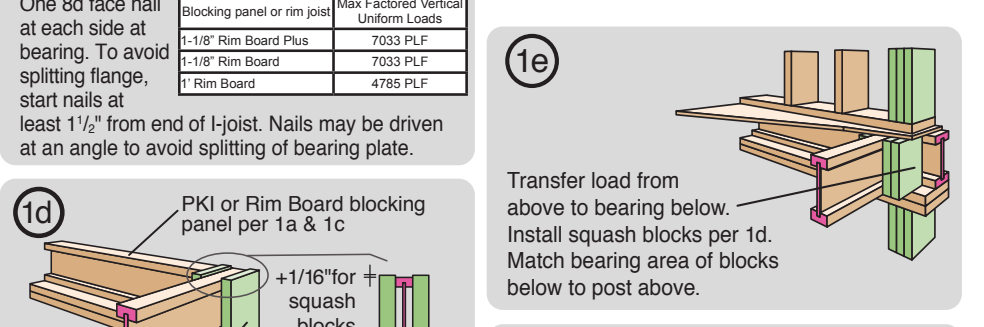
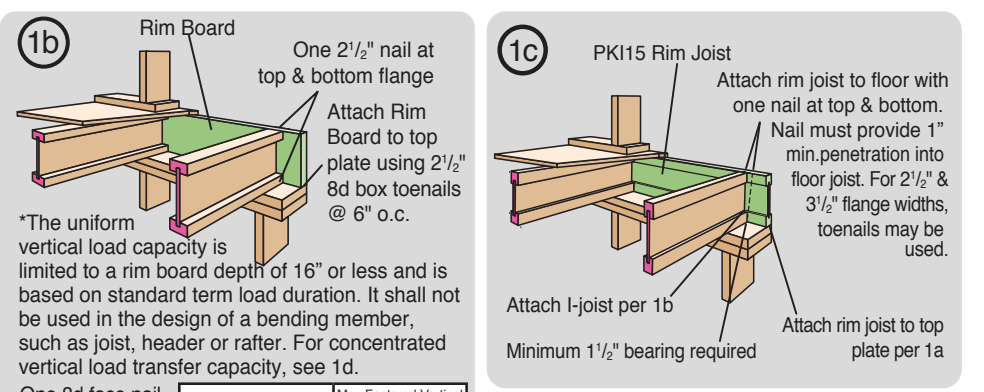
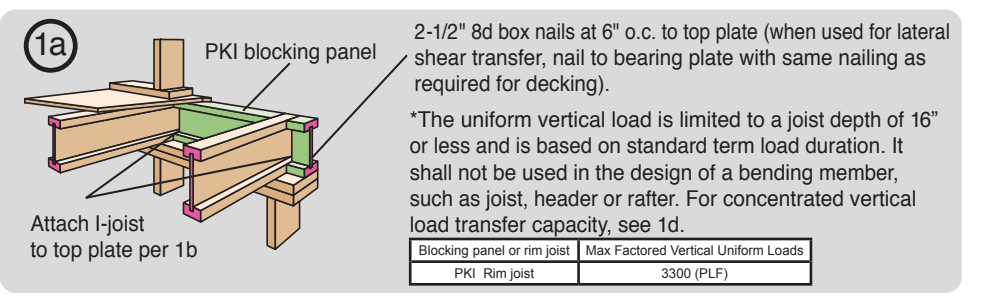
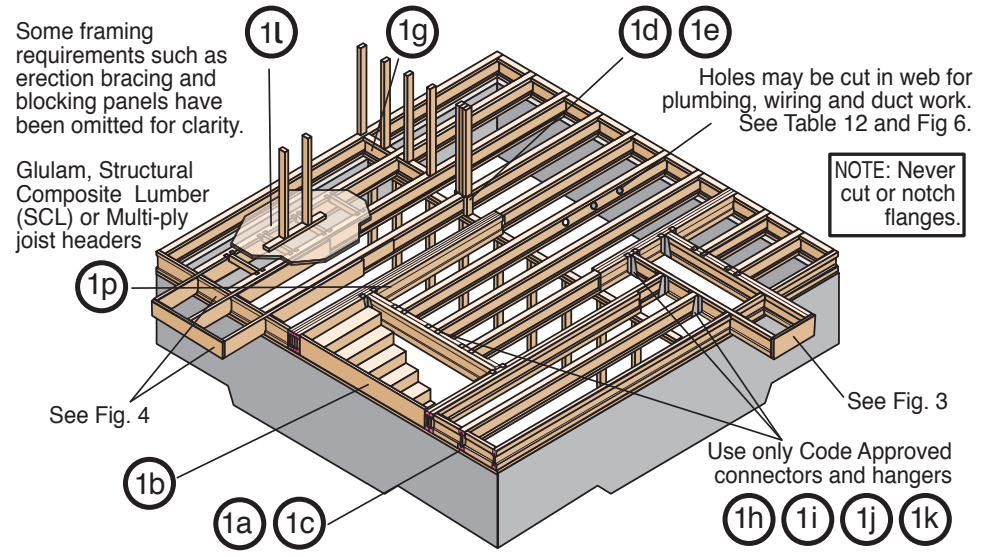
**I-JOISTS Made Better**

Customer service/support:  
Toll free: 1-855-279-3700  
E-mail: info@pinkwood.ca



SERIES:	PKI 15	PKI 20	PKI 23	PKI 35 Plus	PKI 40	PKI 50
Depths:	9 1/2" & 11 1/4"	9 1/2" thru 16"	9 1/2" thru 16"	9 1/2" thru 16"	9 1/2" thru 24"	11 1/4" thru 24"
Flange Size:	1 1/2" x 2 1/2"	2 1/2" x 1 1/2"	2 1/2" x 1 1/2"	3 1/2" x 1 1/2"	3 1/2" x 1 1/2"	3 1/2" x 1 1/2"
Webstock:	3/4" OSB	3/4" OSB	7/8" OSB	3/4" OSB	1/2" OSB (1/4" for 18"-24")	7/8" OSB

Note: PKI15, 20, 23, 35Plus, 40 and 50 series are available with factory applied WEBshield protection. Call for details.



## ALLOWABLE LOCATION OF HOLES IN PKI JOIST WEBS

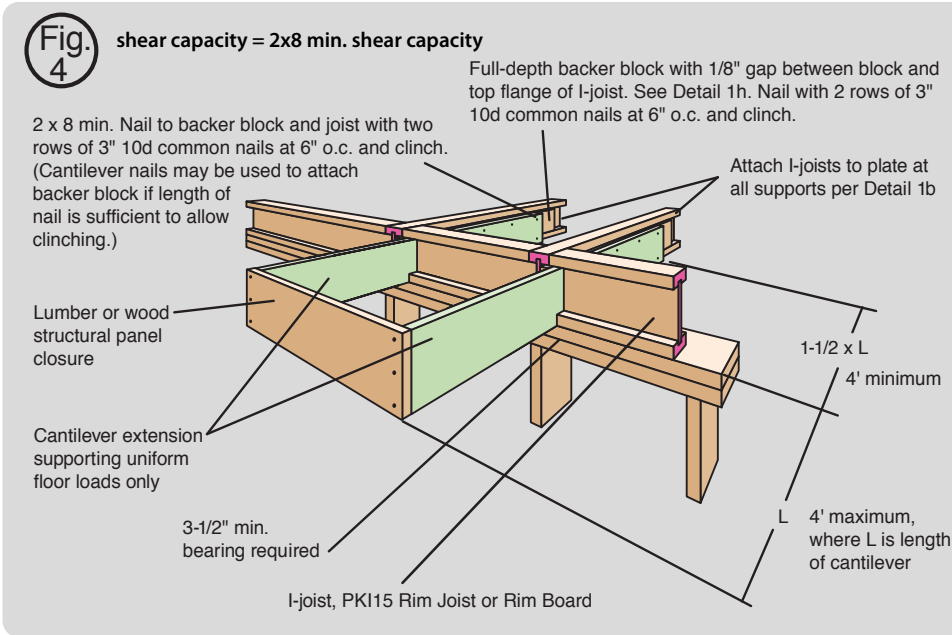
Simple or Multiple Spans for Live Loads up to 40 psf and Dead Loads up to 30 psf - 24" o.c. or Less

Joist Depth	Series	Min. Distance from Inside Edge of Any Support to Center of Hole (ft-in)															
		Round Hole Diameter (in)															
		2	3	4	5	6	6 1/4	7	8	8 5/8	9	10	10 3/4	11	12	12 3/4	
9 1/2"	PKI 10	1'-0"	1'-0"	2'-0"	3'-3"	4'-6"	4'-10"										
	PKI 15	1'-8"	2'-7"	3'-7"	4'-7"	5'-8"	5'-11"										
	PKI 20	1'-0"	1'-9"	3'-0"	4'-2"	5'-6"	5'-10"										
	PKI 23	1'-0"	2'-0"	3'-2"	4'-5"	5'-9"	6'-1"										
	PKI 35 Plus	1'-0"	2'-0"	3'-2"	4'-5"	5'-9"	6'-1"										
11 7/8"	PKI 10	1'-0"	1'-0"	1'-0"	1'-8"	2'-9"	3'-11"	5'-2"	6'-0"								
	PKI 15	1'-0"	1'-9"	2'-6"	3'-5"	4'-3"	4'-6"	5'-2"	6'-1"								
	PKI 20	1'-0"	1'-0"	1'-7"	2'-8"	3'-10"	4'-2"	5'-0"	6'-3"	7'-1"							
	PKI 23	1'-0"	1'-0"	1'-7"	2'-8"	3'-10"	4'-2"	5'-0"	6'-3"	7'-1"							
	PKI 35 Plus	1'-0"	1'-0"	1'-0"	2'-1"	3'-3"	3'-6"	4'-5"	5'-8"	6'-5"							
14"	PKI 10	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	1'-7"	2'-4"	3'-5"	4'-2"	4'-7"	5'-9"	6'-9"				
	PKI 15	1'-0"	1'-3"	2'-0"	2'-9"	3'-7"	3'-9"	4'-4"	5'-2"	5'-9"	6'-1"						
	PKI 20	1'-0"	1'-0"	1'-0"	1'-4"	2'-5"	2'-8"	3'-6"	4'-7"	5'-4"	5'-9"	7'-0"					
	PKI 23	1'-0"	1'-0"	1'-0"	1'-2"	2'-3"	2'-6"	3'-4"	4'-5"	5'-2"	5'-7"	6'-9"	7'-9"				
	PKI 35 Plus	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	1'-7"	2'-4"	3'-5"	4'-2"	4'-7"	5'-9"	6'-9"				
16"	PKI 10	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	2'-6"	3'-7"	5'-1"	6'-0"	6'-7"	8'-2"	9'-5"				
	PKI 15	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	1'-5"	2'-2"	3'-2"	3'-10"	4'-3"	5'-4"	6'-3"	7'-9"			
	PKI 20	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	1'-5"	2'-2"	3'-2"	3'-10"	4'-3"	5'-4"	6'-3"	7'-9"			
	PKI 23	1'-0"	1'-0"	1'-0"	1'-0"	1'-1"	1'-5"	2'-2"	3'-2"	3'-10"	4'-3"	5'-4"	6'-3"	7'-9"			
	PKI 35 Plus	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-7"	2'-3"	2'-8"	3'-8"	4'-6"	4'-10"	6'-0"	6'-11"	

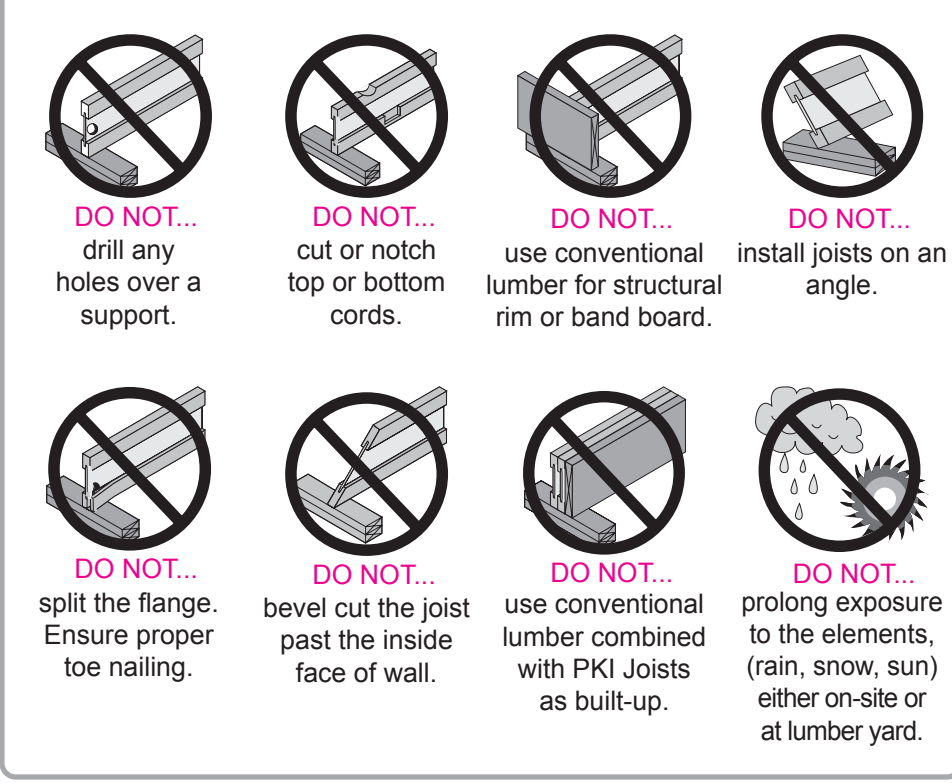
Note - Distances in this chart are based on uniformly loaded joists (standard load duration). Consult Pinkwood design software for loading and holes configurations other than those depicted in this guide.

## WEB HOLE SPECIFICATIONS

One of the benefits of using I-joists in residential floor 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.



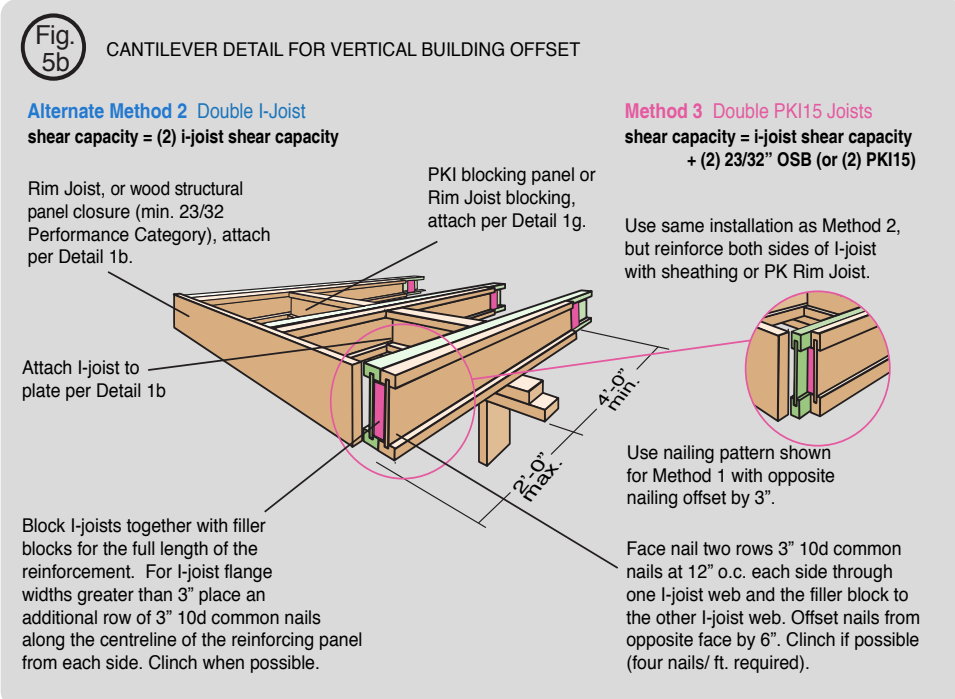
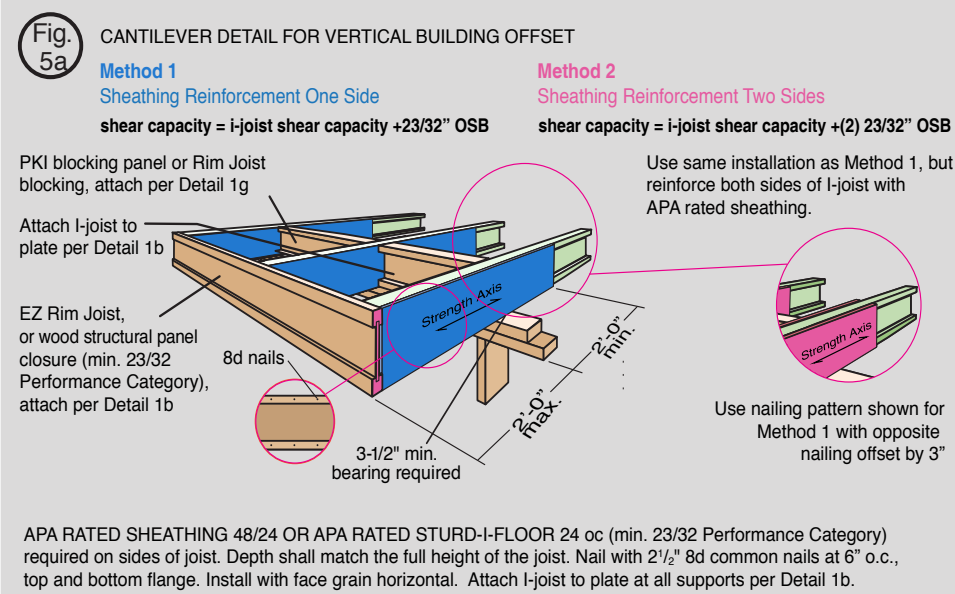
## WARNINGS



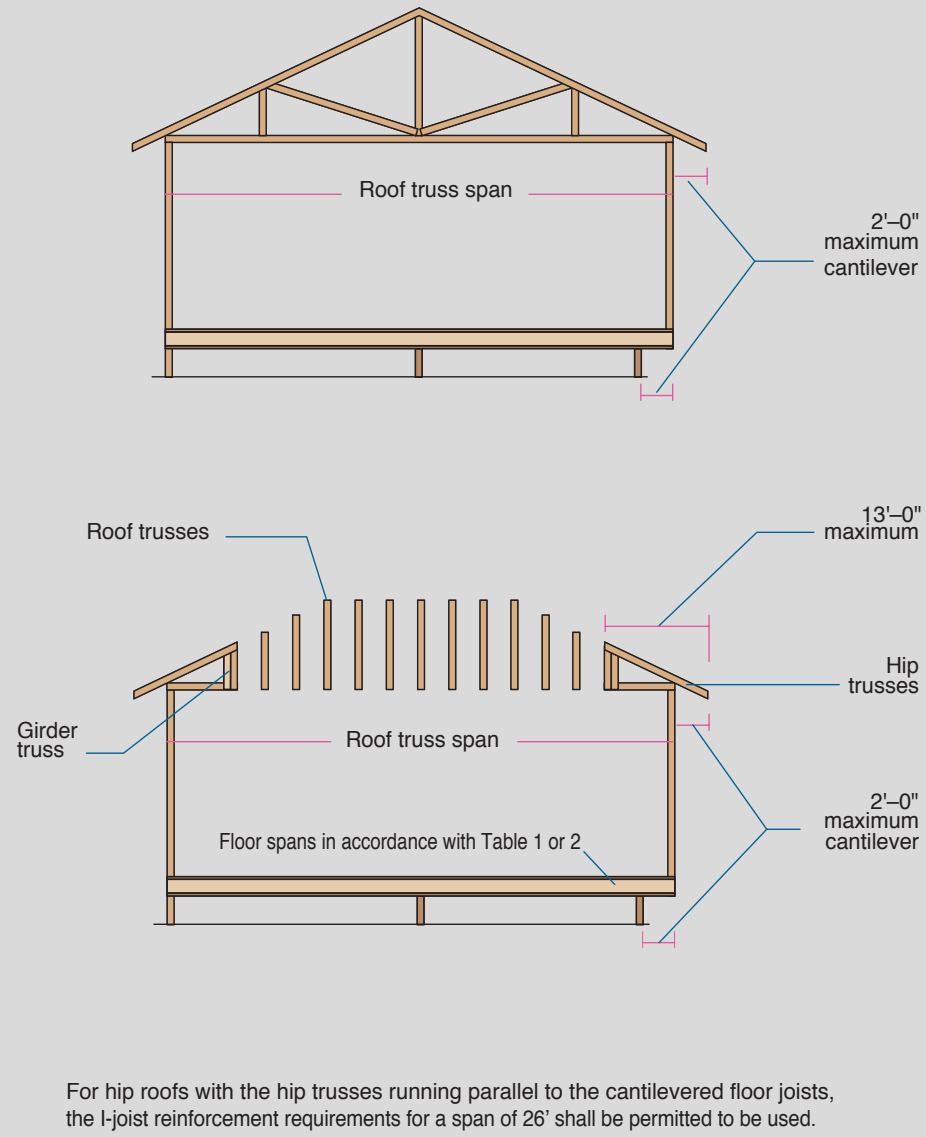
## Rules for cutting holes in PKI Joists

- The distance between the inside edge of the support and the centerline of any hole shall be in compliance with the requirements of this table.
- I-joist top and bottom flange should NEVER be cut, notched or otherwise modified.
- Whenever possible, field-cut holes should be centered in the middle of the web.
- 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 1/4 inch. A minimum of 1/8 inch should always be maintained between the top or bottom of the hole and the adjacent I-joist flange.
- Square and Rectangular holes are permitted in the joist web provided that an encompassing circumscribed round hole is permitted at that location.
- 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 this table.
- Holes measuring 1-1/2 inches or smaller shall be permitted anywhere in a cantilevered section of a PKI-joist. Holes of greater size may be permitted subject to verification.
- A 1-1/2-inch hole or smaller can be placed anywhere in the web provided that it meets the requirements of rule number 6 above.
- All holes shall be cut in a workman-like manner in accordance with the restrictions listed above and as illustrated in Figure 6.
- Limit three maximum-size holes per span.
- 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.





See Table below for PKI reinforcement requirements at cantilever.



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

NOTES:

REINFORCED LOAD BEARING CANTILEVER TABLES

PKI20										
Joist Depth (IN)	Roof Truss Span (FT)	Roof Total Load (PSF)								
		35			45			55		
		Joist Spacing (IN)								
		16	19.2	24	16	19.2	24	16	19.2	24
9-1/2	24	0	0	0	0	0	2	0	2	X
	26	0	0	1	0	1	X	1	2	X
	28	0	0	1	0	1	X	1	X	X
	30	0	0	2	0	2	X	2	X	X
	32	0	0	2	0	2	X	2	X	X
	34	0	0	X	1	X	X	X	X	X
	36	0	1	X	1	X	X	X	X	X
	38	0	1	X	2	X	X	X	X	X
11-7/8	24	0	0	0	0	0	1	0	0	2
	26	0	0	0	0	0	1	0	1	X
	28	0	0	0	0	0	2	0	1	X
	30	0	0	0	0	0	2	0	2	X
	32	0	0	1	0	1	X	1	2	X
	34	0	0	1	0	1	X	1	X	X
	36	0	0	1	0	1	X	1	X	X
	38	0	0	2	0	2	X	2	X	X
14	24	0	0	0	0	0	0	0	0	1
	26	0	0	0	0	0	0	0	0	2
	28	0	0	0	0	0	1	0	0	2
	30	0	0	0	0	0	1	0	1	X
	32	0	0	0	0	0	1	0	1	X
	34	0	0	0	0	0	2	0	1	X
	36	0	0	0	0	0	2	0	2	X
	38	0	0	1	0	1	X	1	2	X
16	24	0	0	0	0	0	0	0	0	0
	26	0	0	0	0	0	0	0	0	1
	28	0	0	0	0	0	0	0	0	1
	30	0	0	0	0	0	0	0	0	2
	32	0	0	0	0	0	0	0	0	2
	34	0	0	0	0	0	1	0	1	2
	36	0	0	0	0	0	1	0	1	X
	38	0	0	0	0	0	2	0	1	X
40	0	0	0	0	0	2	0	2	X	

PKI40										
Joist Depth (IN)	Roof Truss Span (FT)	Roof Total Load (PSF)								
		35			45			55		
		Joist Spacing (IN)								
		16	19.2	24	16	19.2	24	16	19.2	24
9-1/2	24	0	0	0	0	0	2	0	1	X
	26	0	0	0	0	0	2	0	2	X
	28	0	0	1	0	1	X	1	2	X
	30	0	0	1	0	1	X	1	X	X
	32	0	0	2	0	2	X	1	X	X
	34	0	0	2	0	2	X	2	X	X
	36	0	0	2	1	2	X	2	X	X
	38	0	1	X	1	X	X	X	X	X
11-7/8	24	0	0	0	0	0	0	0	0	1
	26	0	0	0	0	0	0	0	0	2
	28	0	0	0	0	0	1	0	0	X
	30	0	0	0	0	0	1	0	1	X
	32	0	0	0	0	0	2	0	1	X
	34	0	0	0	0	0	2	0	2	X
	36	0	0	1	0	1	X	1	2	X
	38	0	0	1	0	1	X	1	X	X
14	24	0	0	0	0	0	0	0	0	0
	26	0	0	0	0	0	0	0	0	1
	28	0	0	0	0	0	0	0	0	1
	30	0	0	0	0	0	0	0	0	2
	32	0	0	0	0	0	0	0	0	2
	34	0	0	0	0	0	1	0	1	X
	36	0	0	0	0	0	1	0	1	X
	38	0	0	0	0	0	2	0	1	X
16	24	0	0	0	0	0	0	0	0	0
	26	0	0	0	0	0	0	0	0	0
	28	0	0	0	0	0	0	0	0	0
	30	0	0	0	0	0	0	0	0	1
	32	0	0	0	0	0	0	0	0	1
	34	0	0	0	0	0	0	0	0	1
	36	0	0	0	0	0	0	0	0	2
	38	0	0	0	0	0	1	0	0	2
40	0	0	0	0	0	1	0	1	X	

Table Legend:

- 0 = No reinforcement required.
- 1 = PKIs reinforced with 23/32 Performance Category wood structural panel on one side only.
- 2 = PKIs reinforced with 23/32 Performance Category wood structural panel on both sides or double I-joist.
- X = Try a deeper joist or closer spacing.

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 openings spaced less than 6'-0" o.c., additional joists beneath the opening's cripple studs may be required.
- (2) Table applies to joists 16" to 24" o.c.
- (3) 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.
- (4) Joists space at 12" o.c. require no reinforcement.