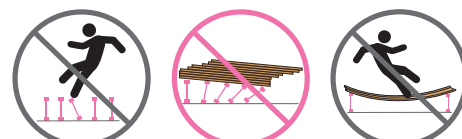




U.S. Handling & Installation Recommendations

I-JOISTS
Made Better

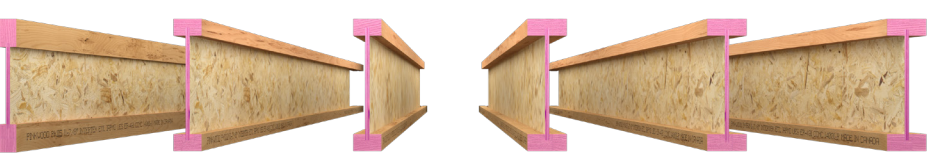
Customer service/support:
Toll free: 1-855-279-3700
E-mail: info@pinkwood.ca



DO NOT walk on joists until braced. INJURY CAN OCCUR

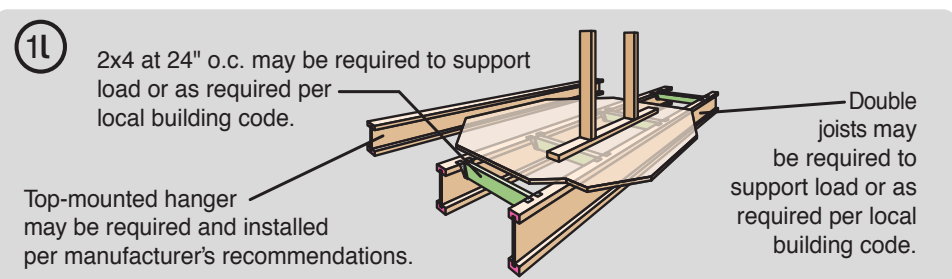
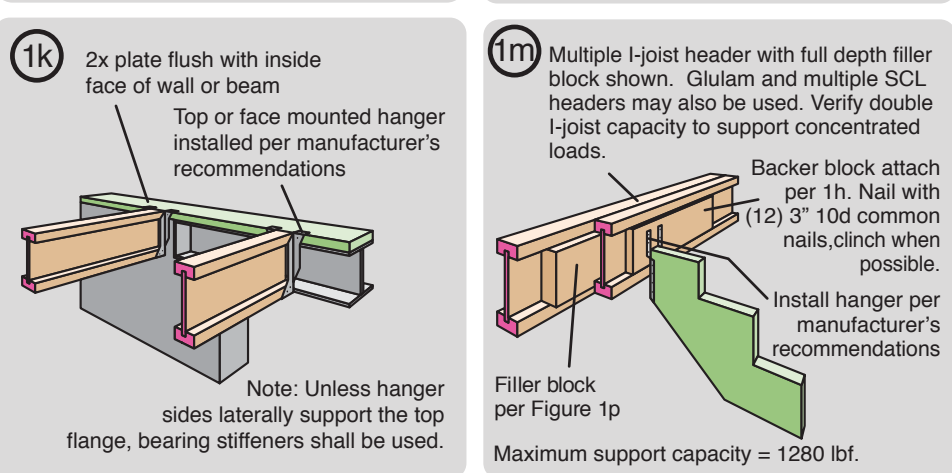
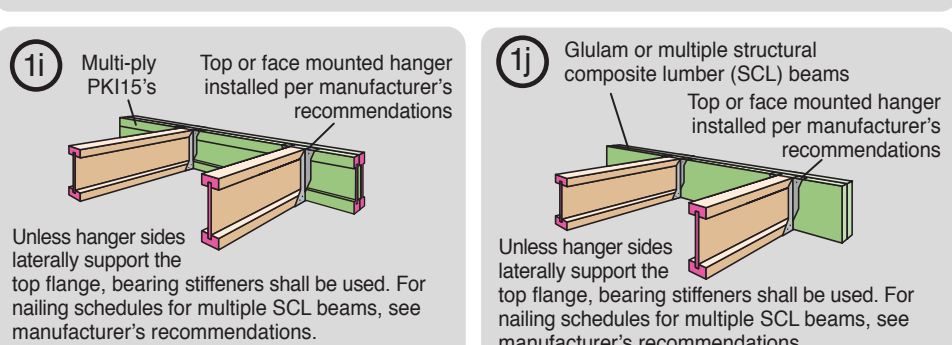
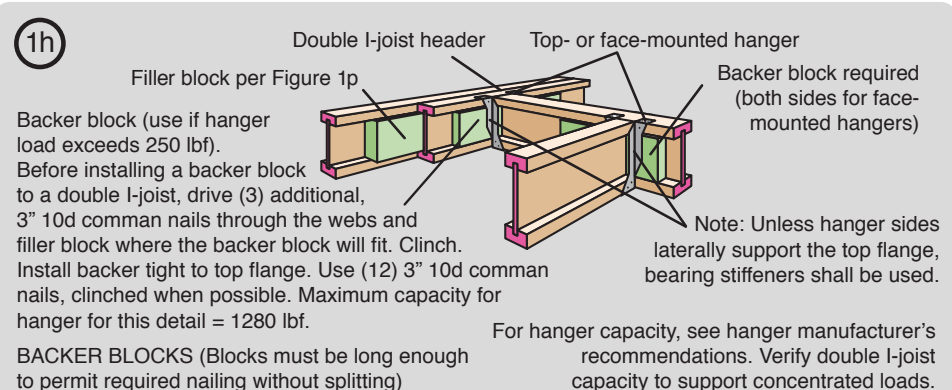
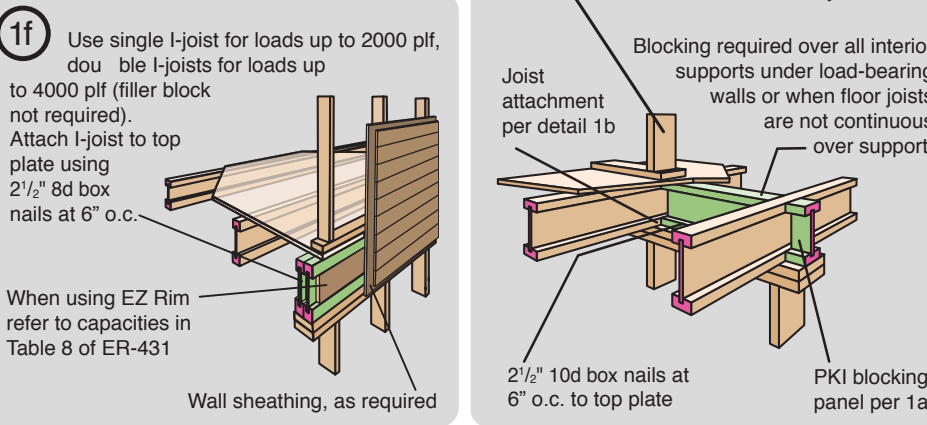
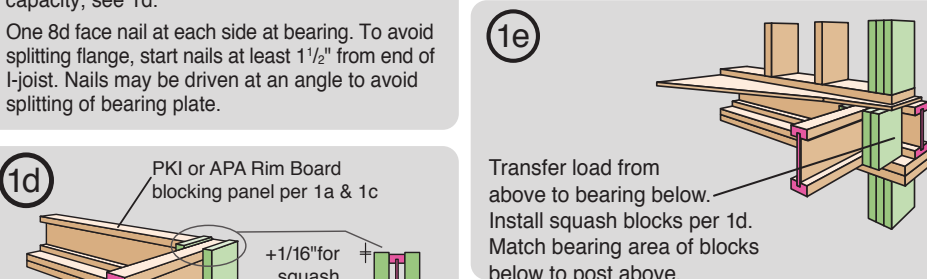
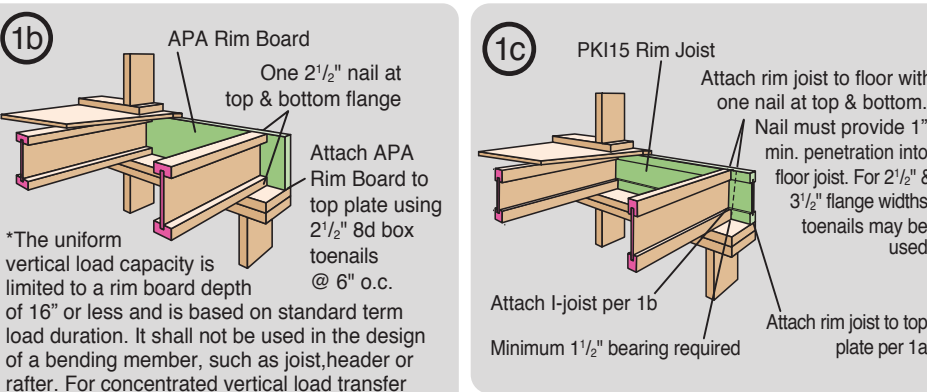
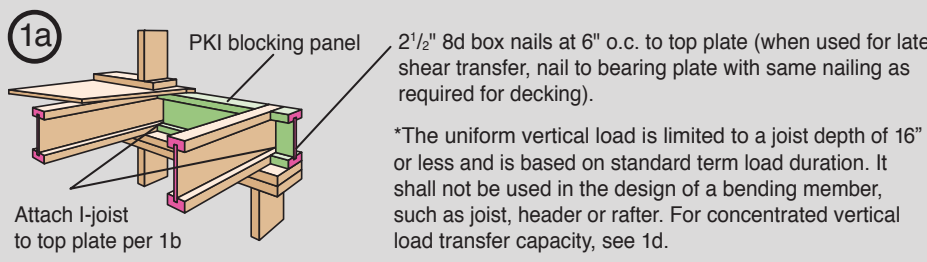
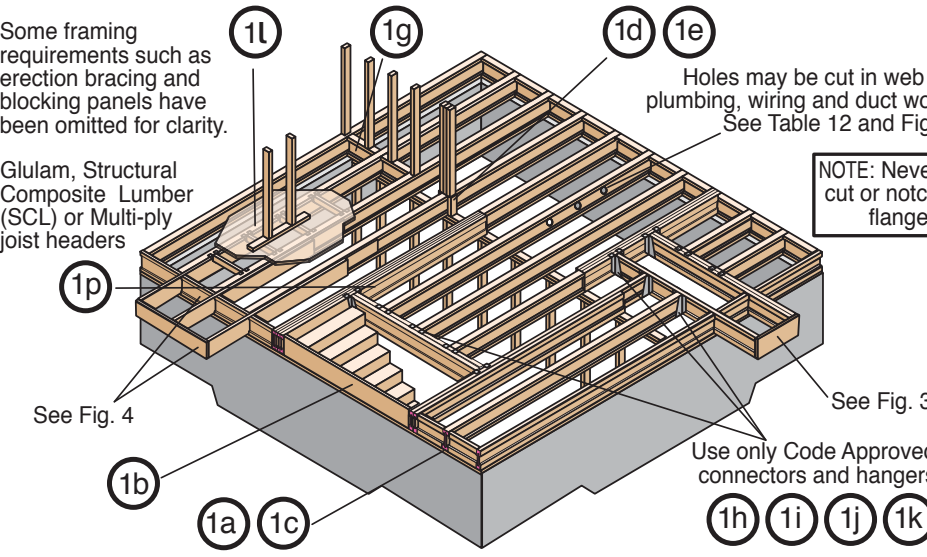
DO NOT stack building materials on unbraced joists. Stack only over beams or walls.

DO NOT walk on joists that are tying flat.



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.



1p

Flange Width	Net Depth	Filler Block Size
9-1/2"	2-1/8" x 6"	
2-1/2"	11-7/8"	2-1/8" x 8"
	14"	2-1/8" x 10"
3-1/2"	9-1/2"	3" x 6"
	11-7/8"	3" x 8"
	14"	3" x 10"
PKI 15	9-1/2"	1-1/8" x 4"
	Multi-ply 11-7/8"	1-1/8" x 6"

Notes:

- Support back of I-joist web during nailing to prevent damage to web/flange connection.
- Leave a 1/8-inch gap between top of filler block and bottom of top I-joist flange.
- Filler block is required between joists for full length of span.
- 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).
- The maximum load that may be applied to one side of the double joist using this detail is 620 lbf.
- For I-joist depths greater than 16 inches, please contact your PinkWood representative for details.
- Web fill may be omitted for some loading conditions. Please contact PinkWood representative for details.

Filler block

Offset nails from opposite face by 6"

1/8" to 1/4" gap between top flange and filler block

Filler block

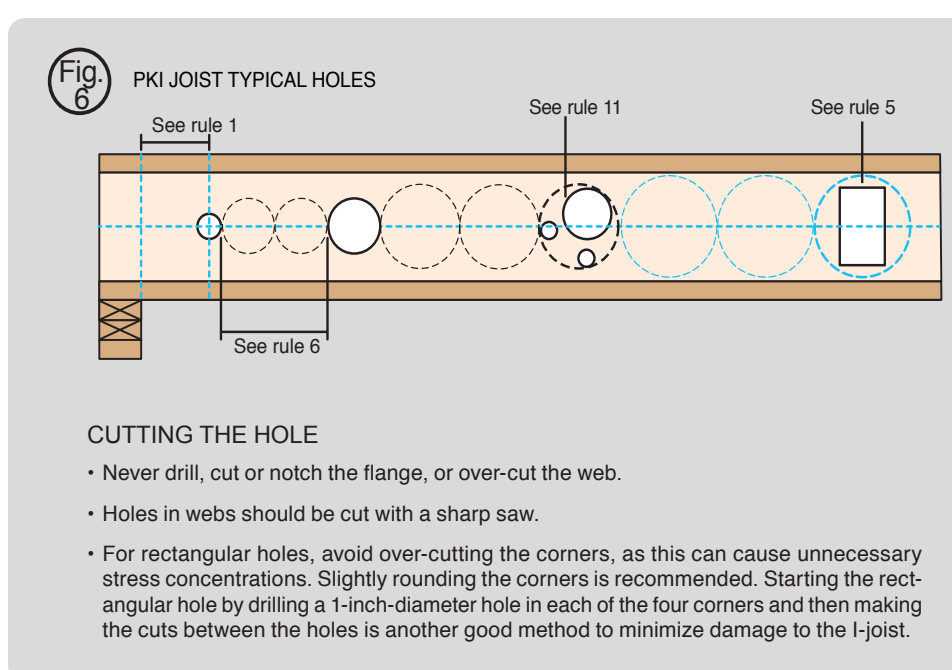
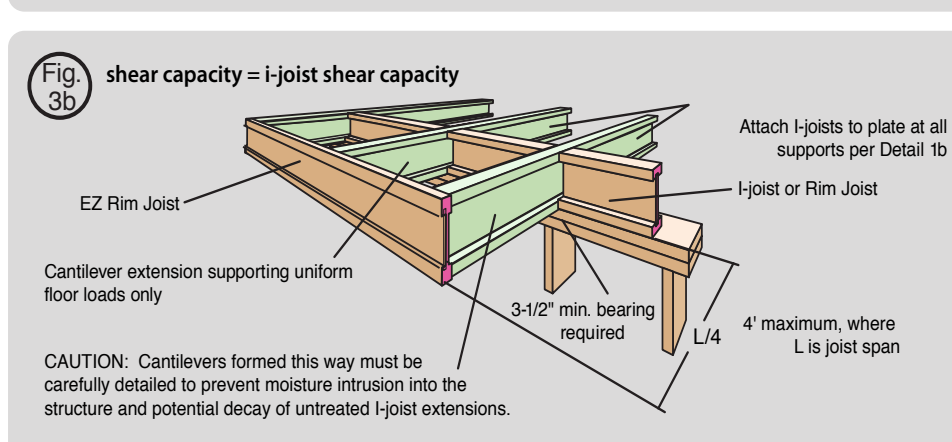
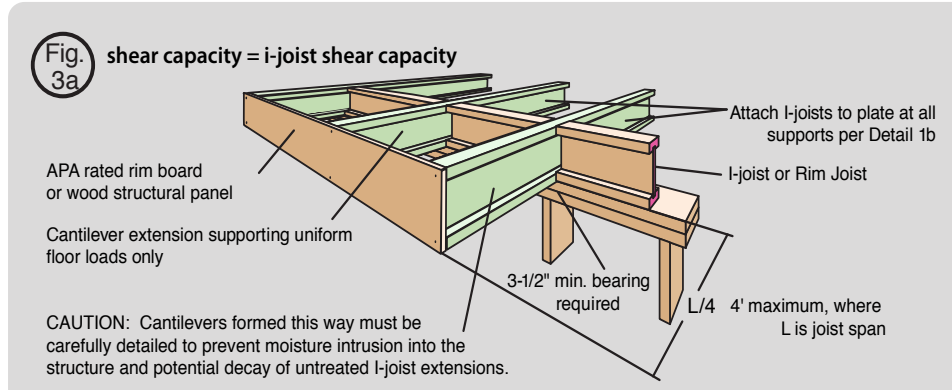
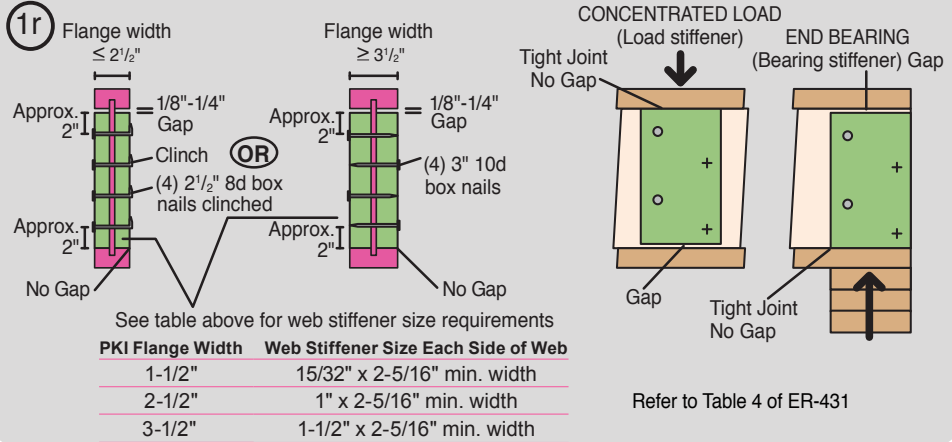
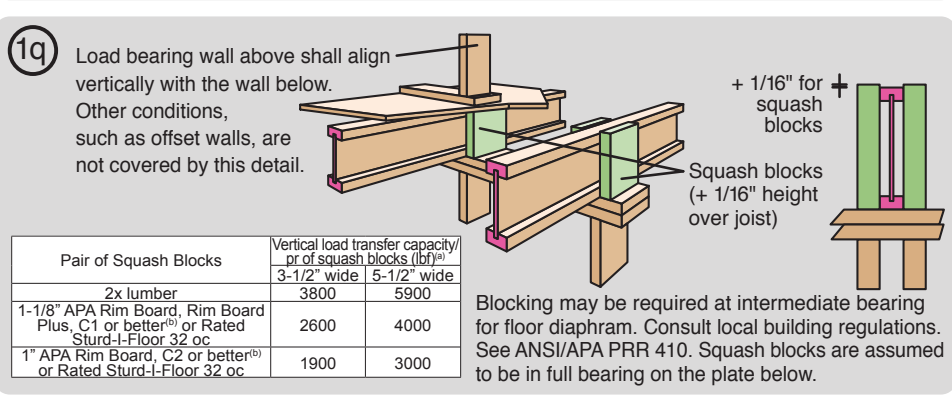
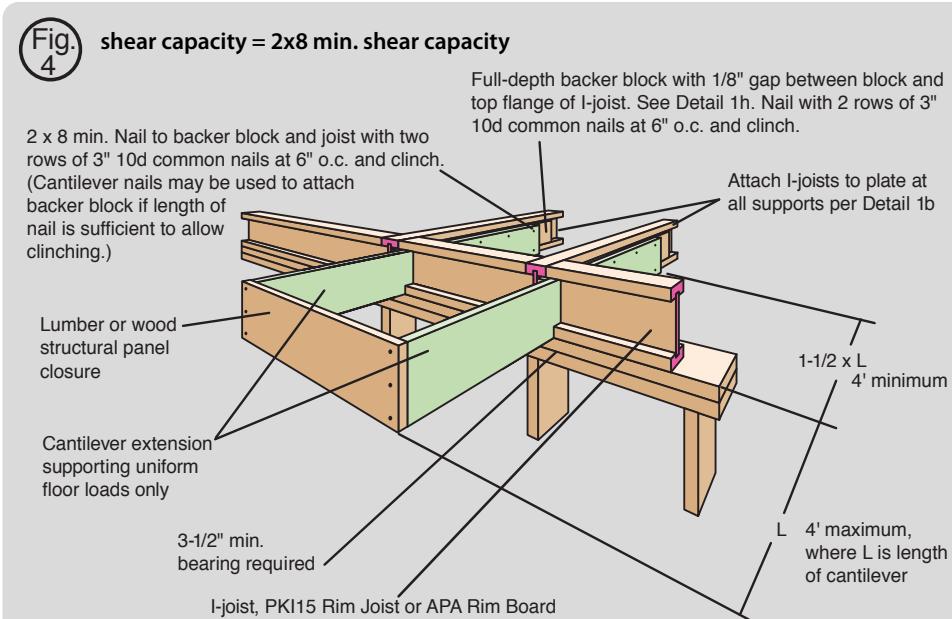


TABLE 10 ALLOWABLE LOCATION OF CIRCULAR HOLES IN PKI JOIST WEBS

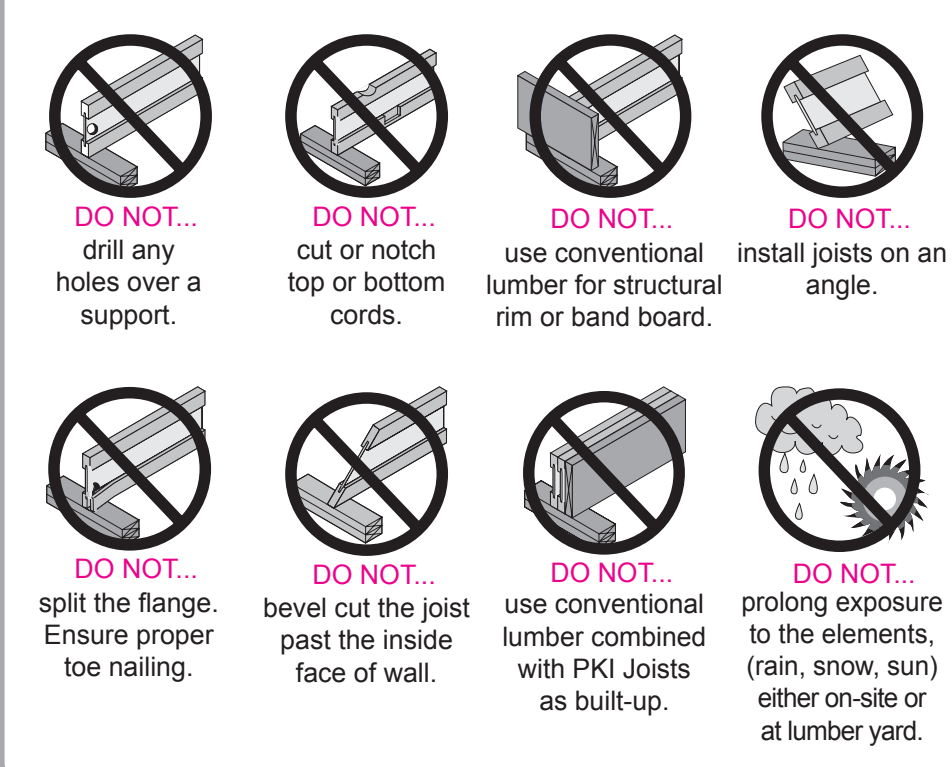
Simple Span for Live Loads up to 40 psf and Dead Loads up to 25 psf Spacing - 19.2" o.c.

Joist Depth	Series	Clear Span	Minimum Distance from Inside Face of Bearing to Center of Hole (ft-in)				
			Round Hole Diameter (inches)				
			4	6 1/4	8 5/8	10 3/4	12 3/4
9 1/2"	PKI 10	13'	1'-0"	2'-3"			
	PKI 15	13'	1'-0"				
	PKI 20	15'	1'-0"	3'-4"			
	PKI 23	16'	1'-0"	2'-8"			
	PKI 35 Plus	16'	1'-0"	3'-11"			
11 7/8"	PKI 10	15'	1'-0"	1'-0"	3'-7"		
	PKI 15	15'	1'-0"	2'-6"			
	PKI 20	17'	1'-0"	1'-6"	4'-9"		
	PKI 23	18'	1'-0"	2'-1"	4'-4"		
	PKI 35 Plus	18'	1'-0"	2'-1"	5'-4"		
14"	PKI 10	22'	1'-0"	3'-6"	7'-3"		
	PKI 15	22'	1'-0"	1'-1"	5'-7"		
	PKI 20	17'	1'-0"	1'-0"	2'-2"	5'-0"	
	PKI 23	17'	1'-0"	2'-1"	4'-3"		
	PKI 20	18'	1'-0"	1'-0"	2'-8"	5'-7"	
16"	PKI 23	20'	1'-0"	1'-0"	2'-5"	5'-10"	
	PKI 35 Plus	20'	1'-0"	1'-0"	3'-9"	6'-9"	
	PKI 40	24'	1'-0"	1'-10"	5'-2"	8'-6"	
	PKI 50	24'	1'-0"	1'-0"	3'-6"	7'-5"	
	PKI 20	20'	1'-0"	1'-0"	1'-6"	4'-1"	6'-10"
PKI 23	21'	1'-0"	1'-0"	1'-0"	3'-6"	6'-8"	
PKI 35 Plus	21'	1'-0"	1'-0"	2'-0"	4'-8"	7'-5"	
PKI 40	26'	1'-0"	1'-0"	3'-6"	6'-7"	9'-9"	
PKI 50	26'	1'-0"	1'-0"	2'-1"	5'-6"	9'-0"	

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.



WARNINGS



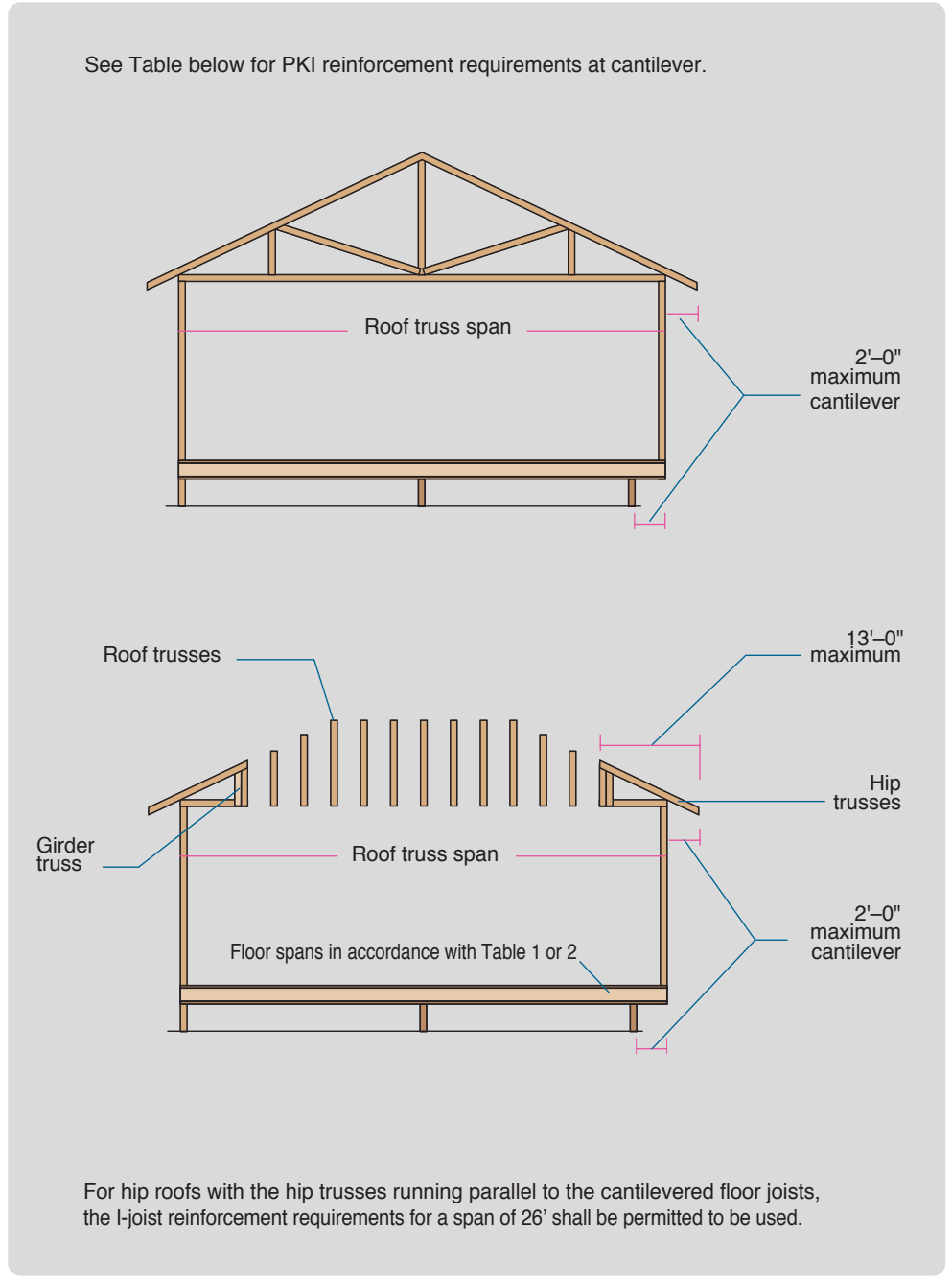
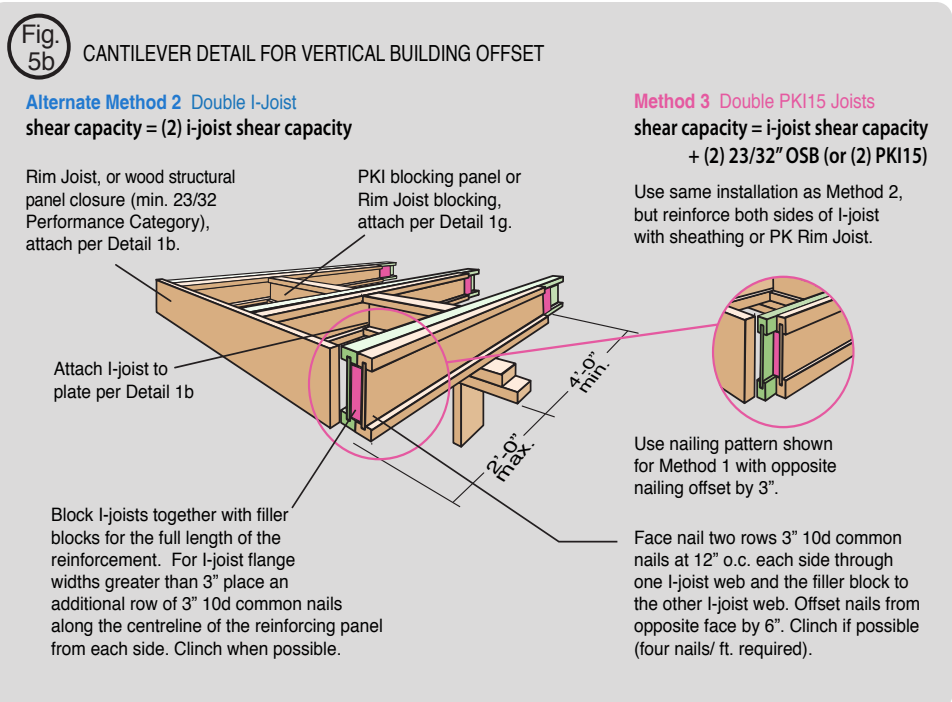
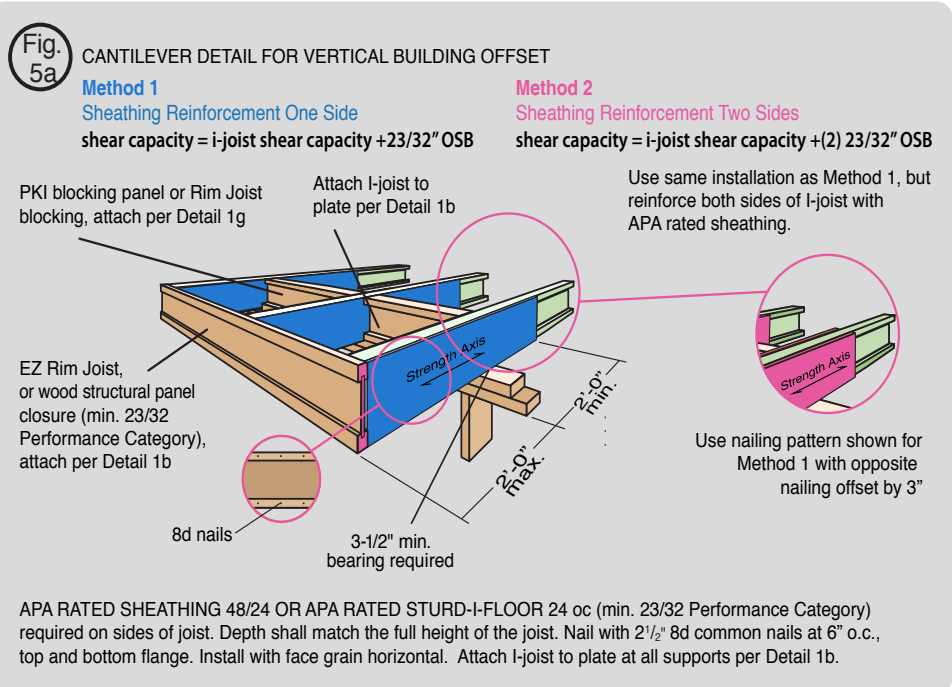
WEB HOLE SPECIFICATIONS

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.

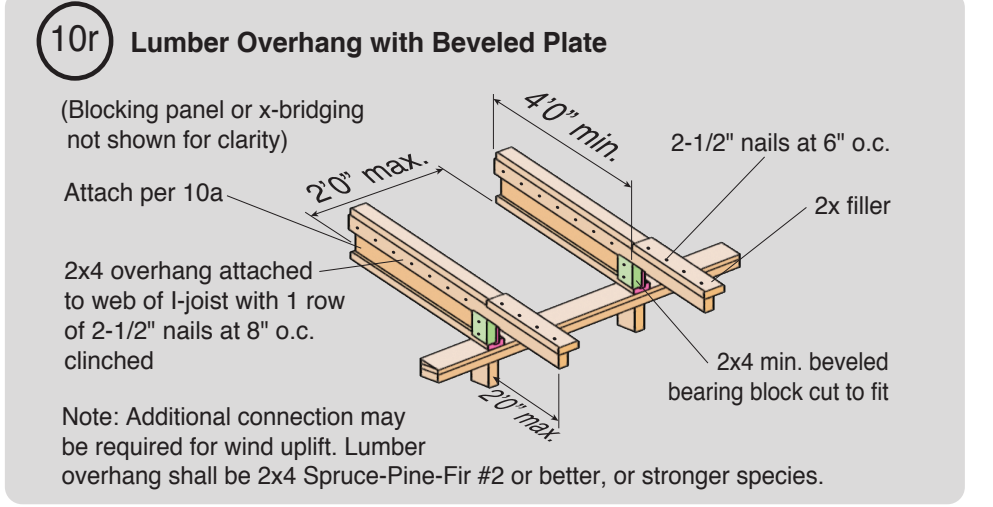
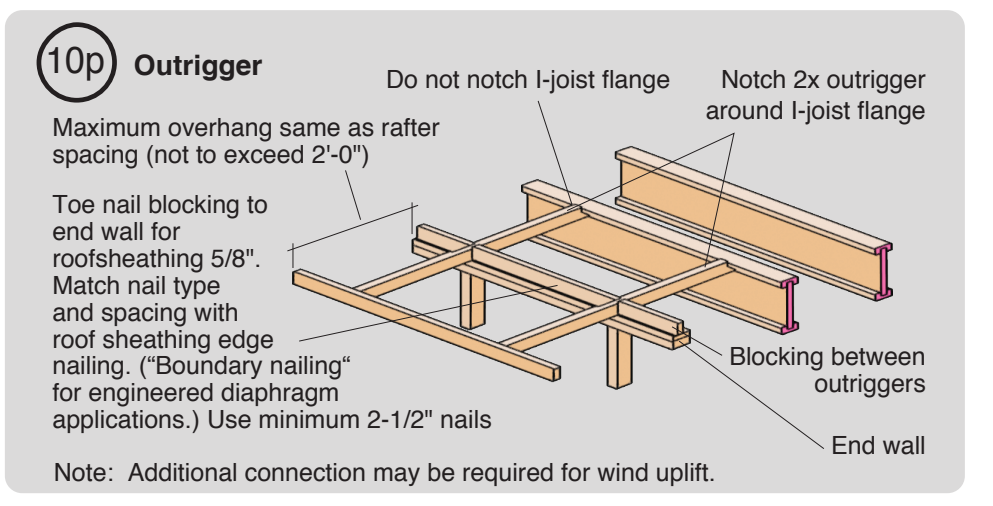
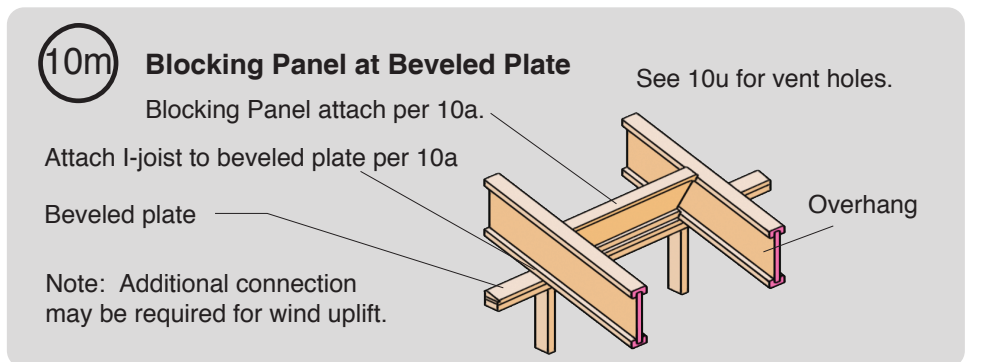
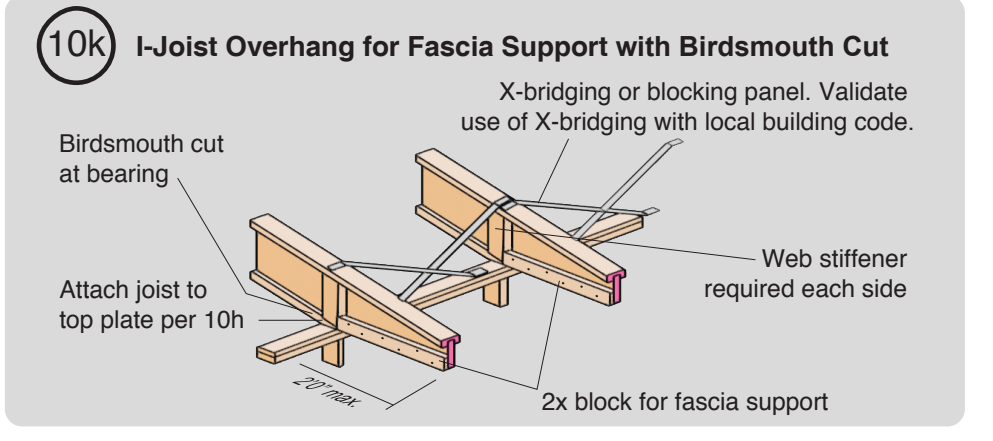
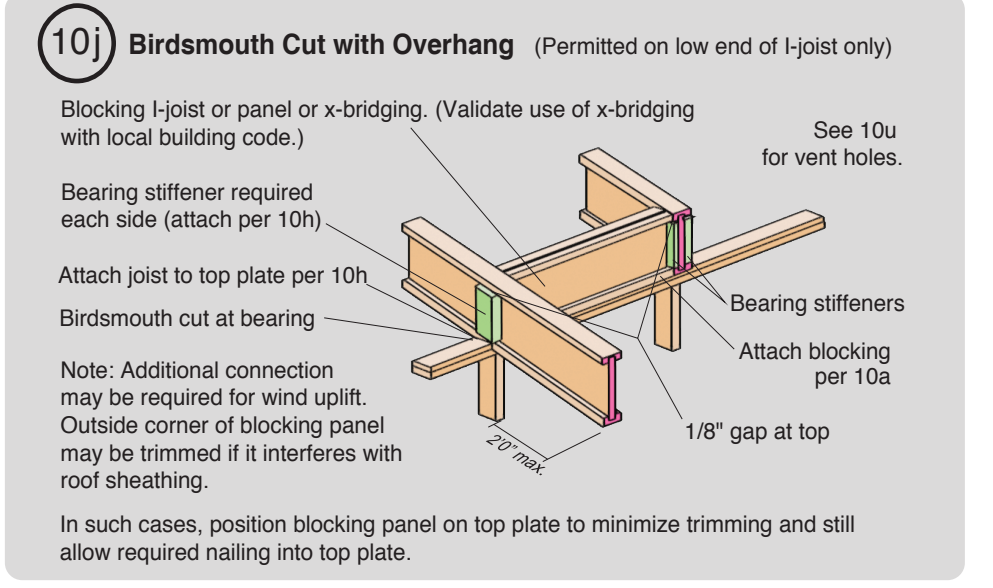
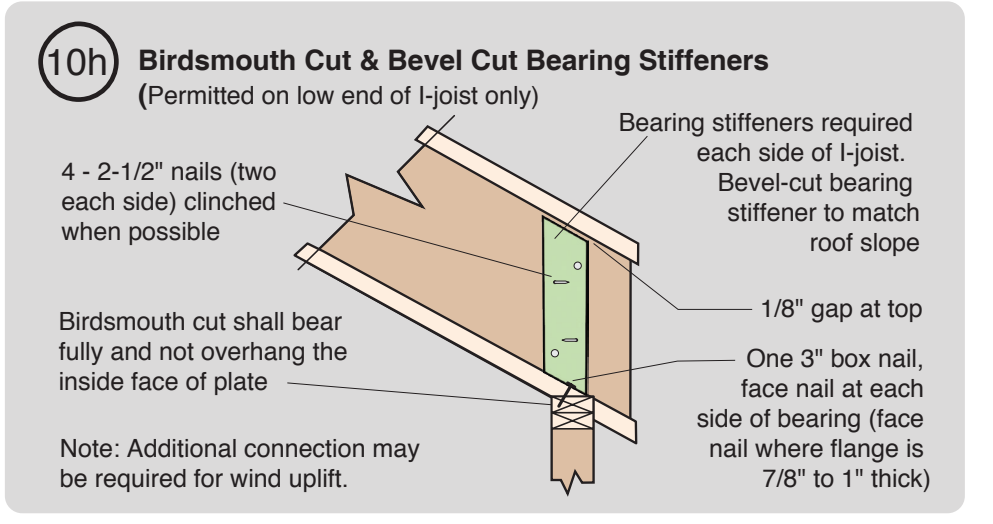
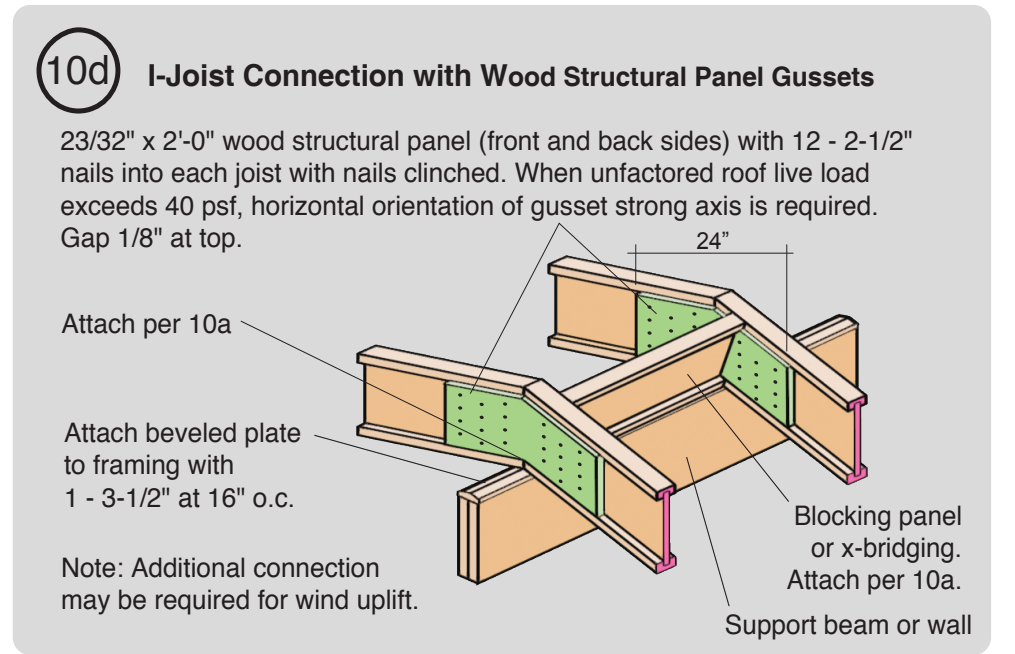
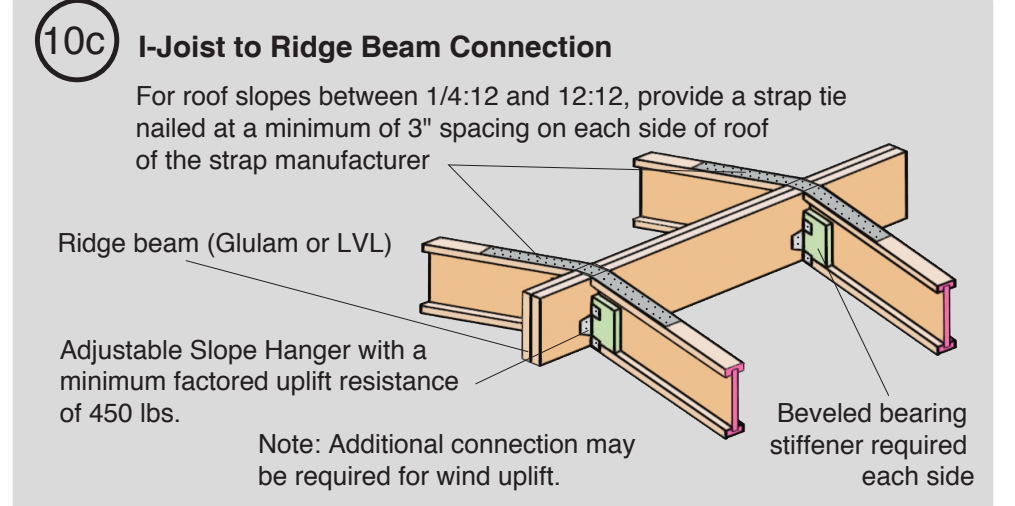
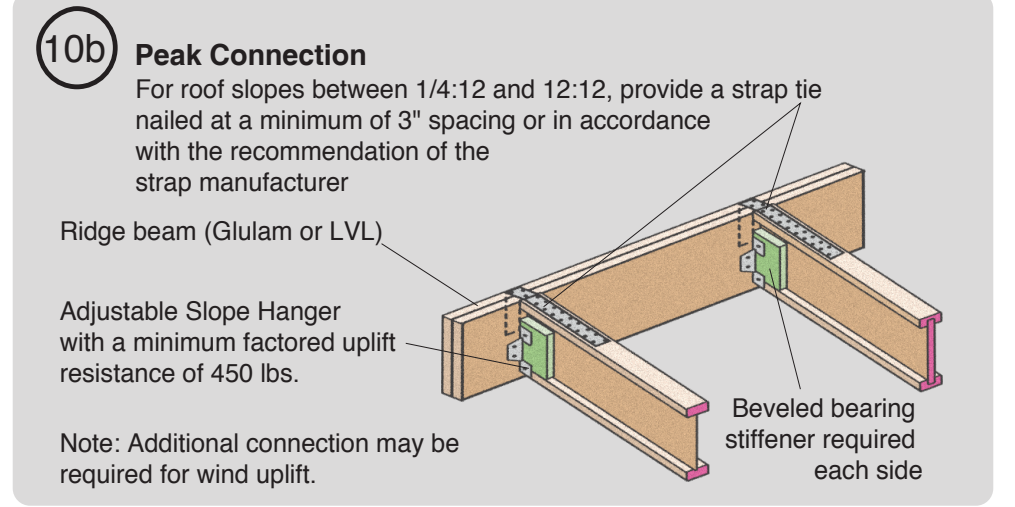
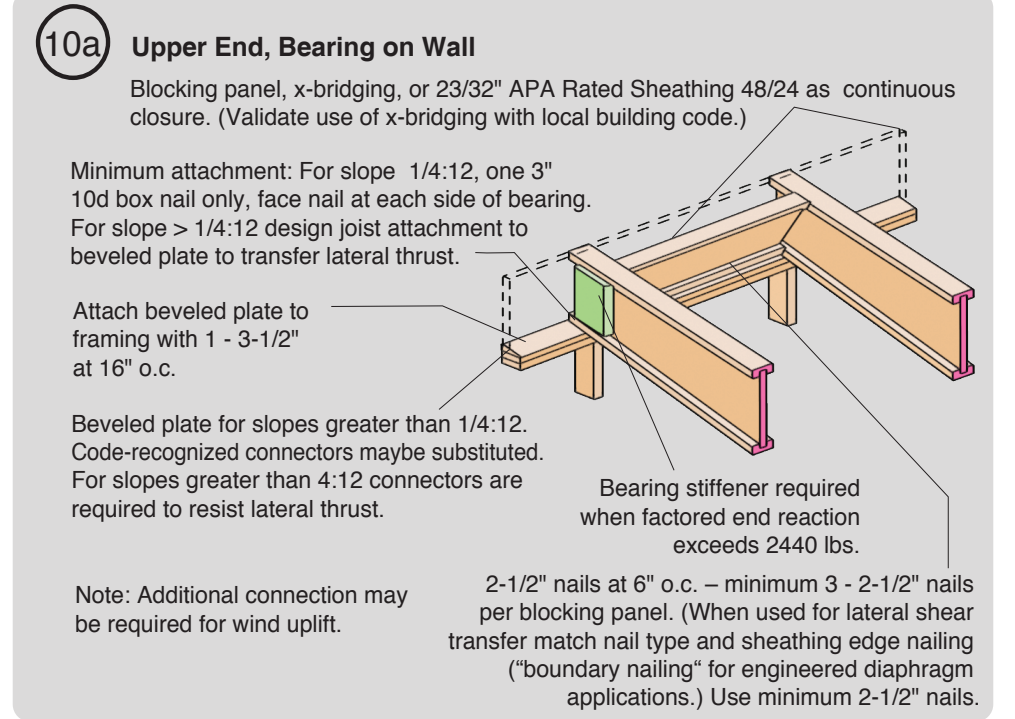
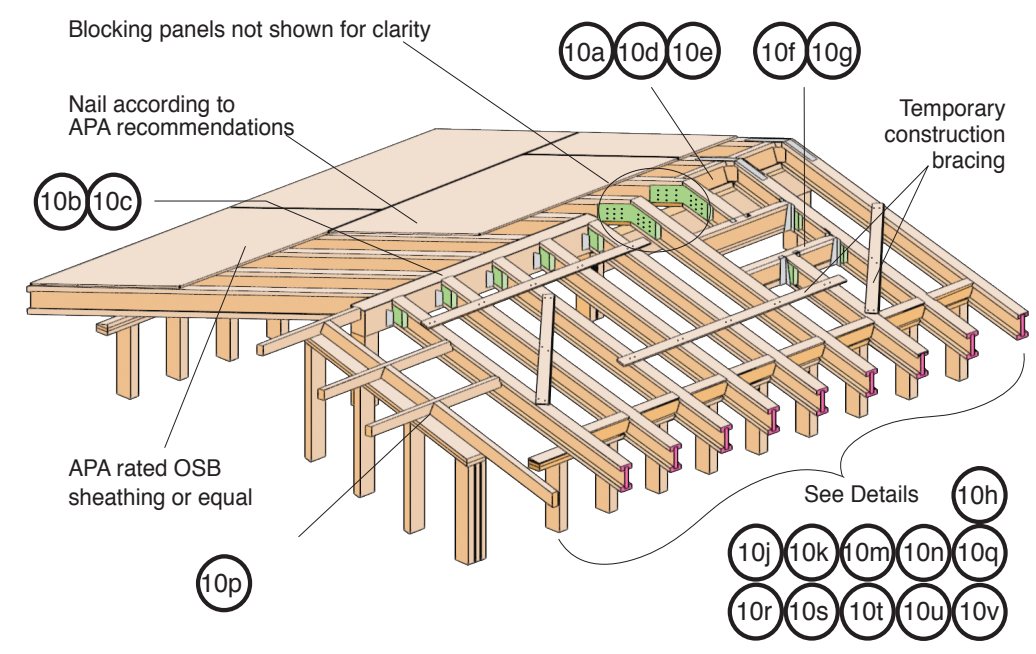
Rules for cutting holes in PKI Joists

- The distance between the inside edge of the support and the centerline of any hole shall be in compliance with the requirements of Table 10.
- 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 Table 12.
- 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.





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.



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
40	0	2	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
40	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
40	0	0	1	0	1	X	1	X	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
40	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
40	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	2
	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
40	0	0	0	0	0	2	0	2	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.