



U.S. HANDLING & INSTALLATION RECOMMENDATIONS

INSTALLATION GUIDE

PK-JOISTS for Floor and Roof Applications.

USA Version

Note: PKI 10, 20, 23, 35 Plus, 40, and 50 series are available. Call for details.

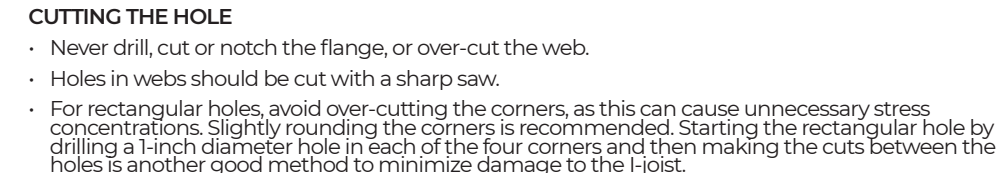
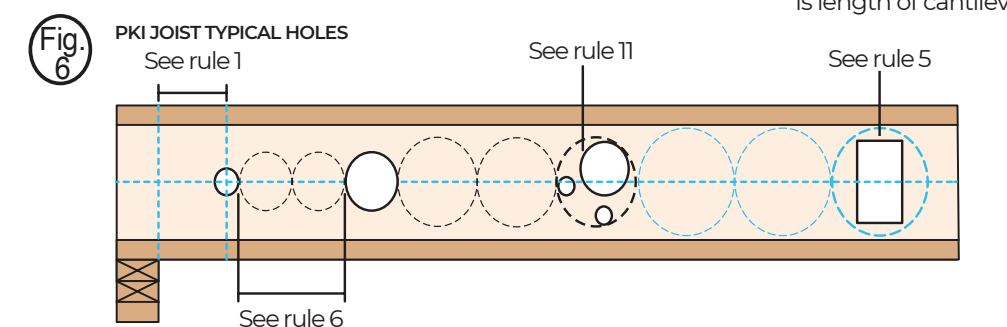
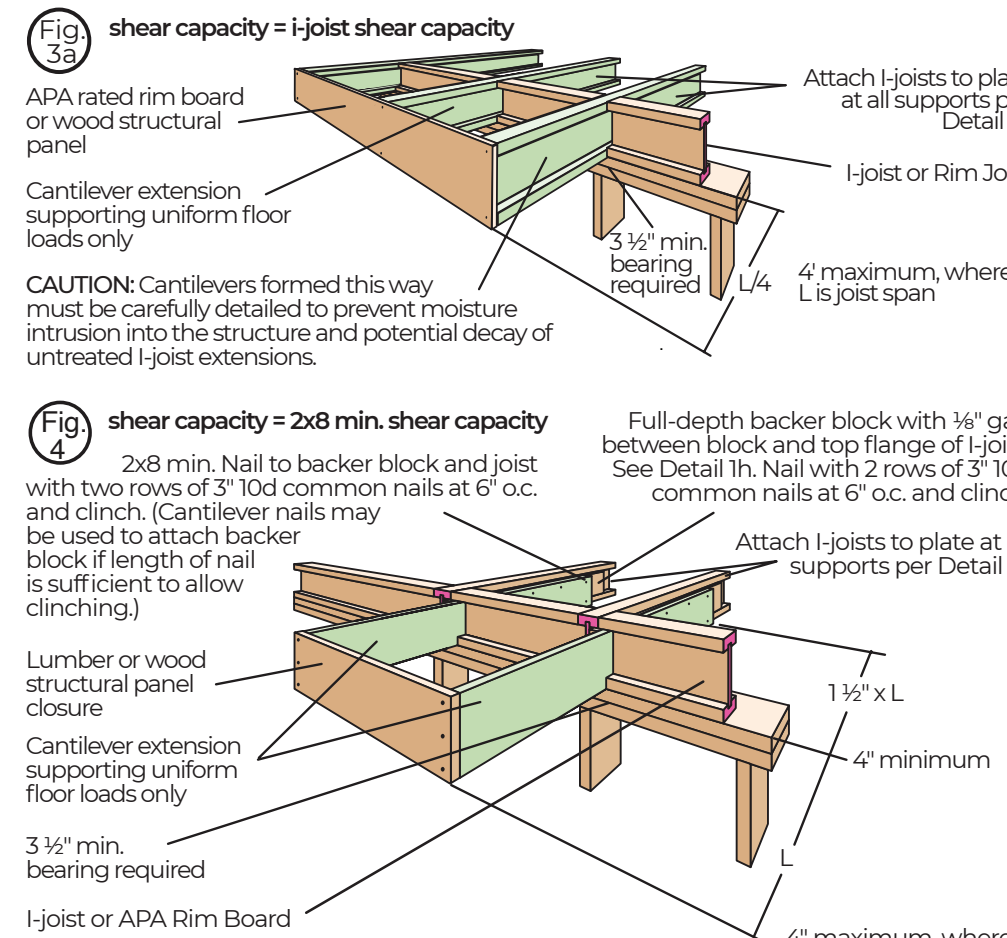
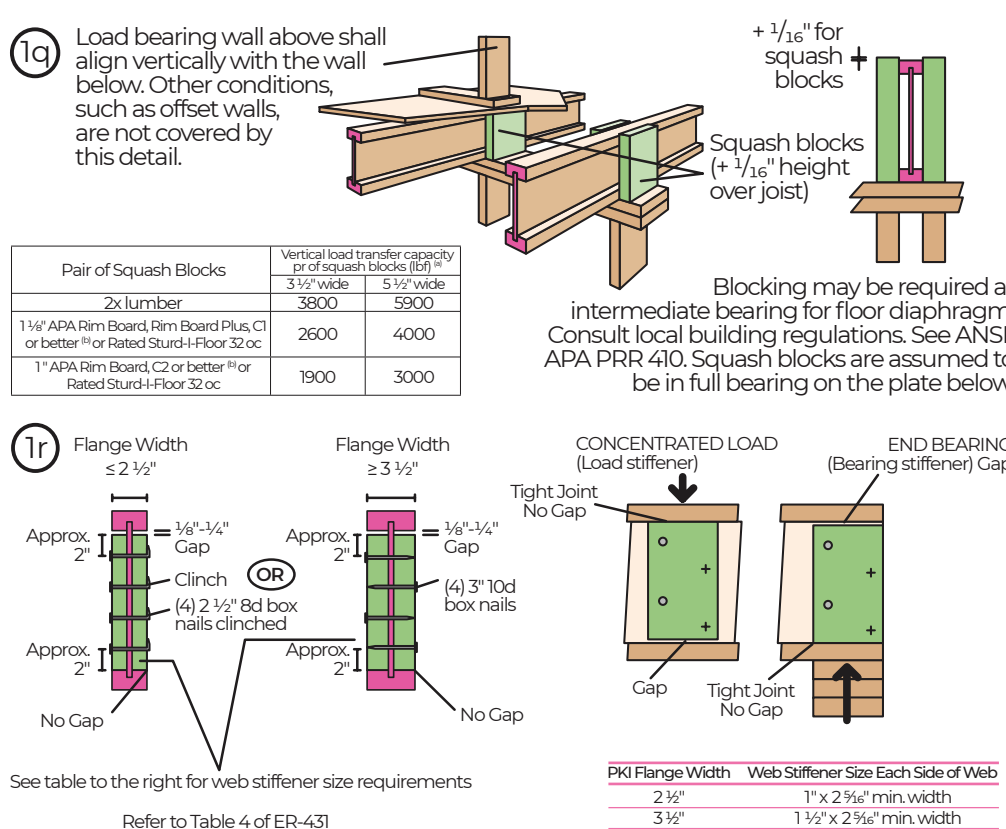
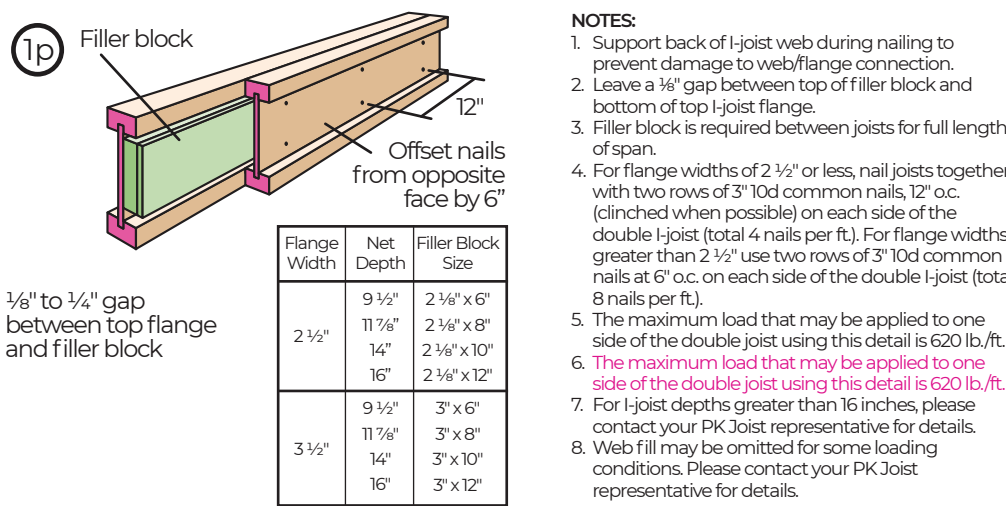
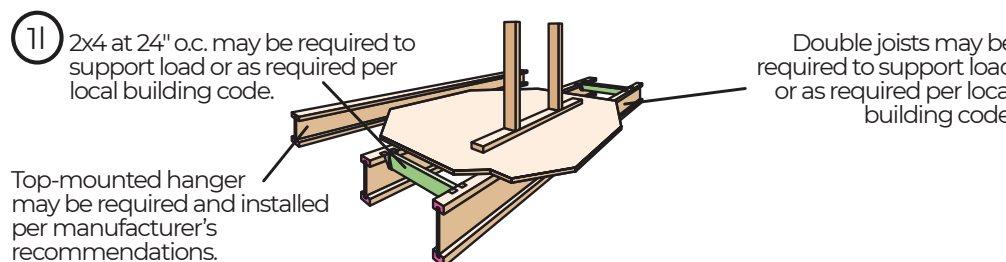
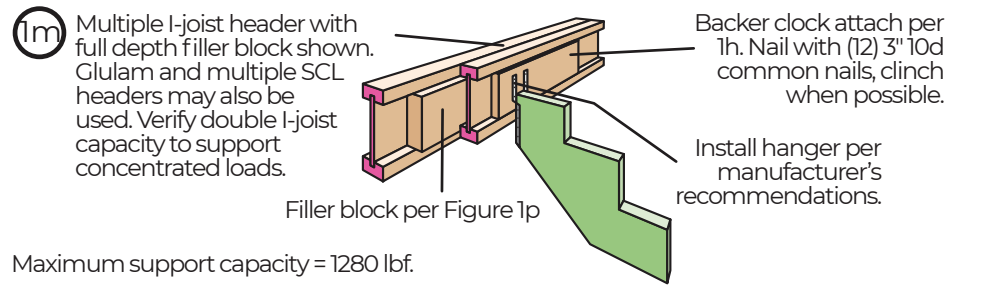
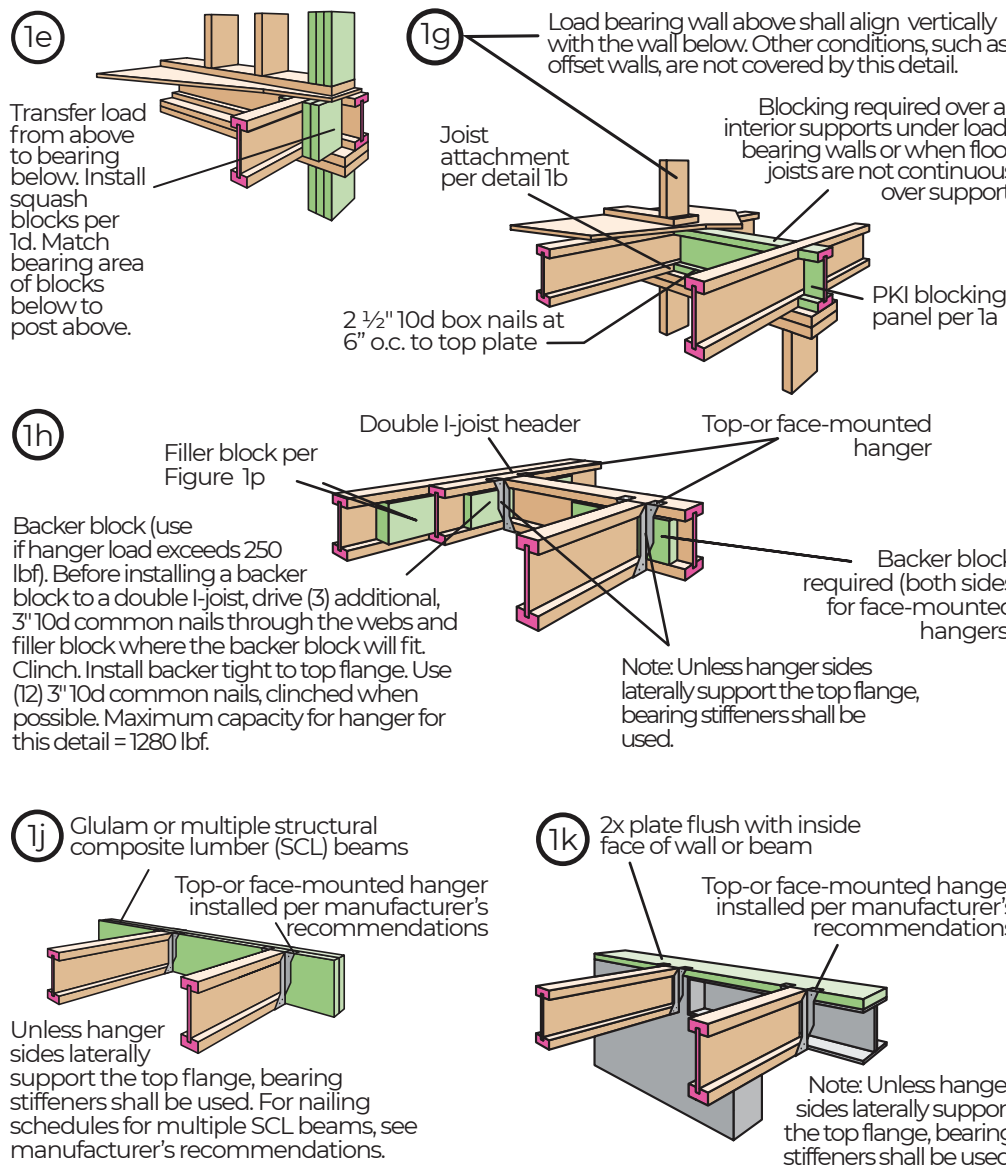
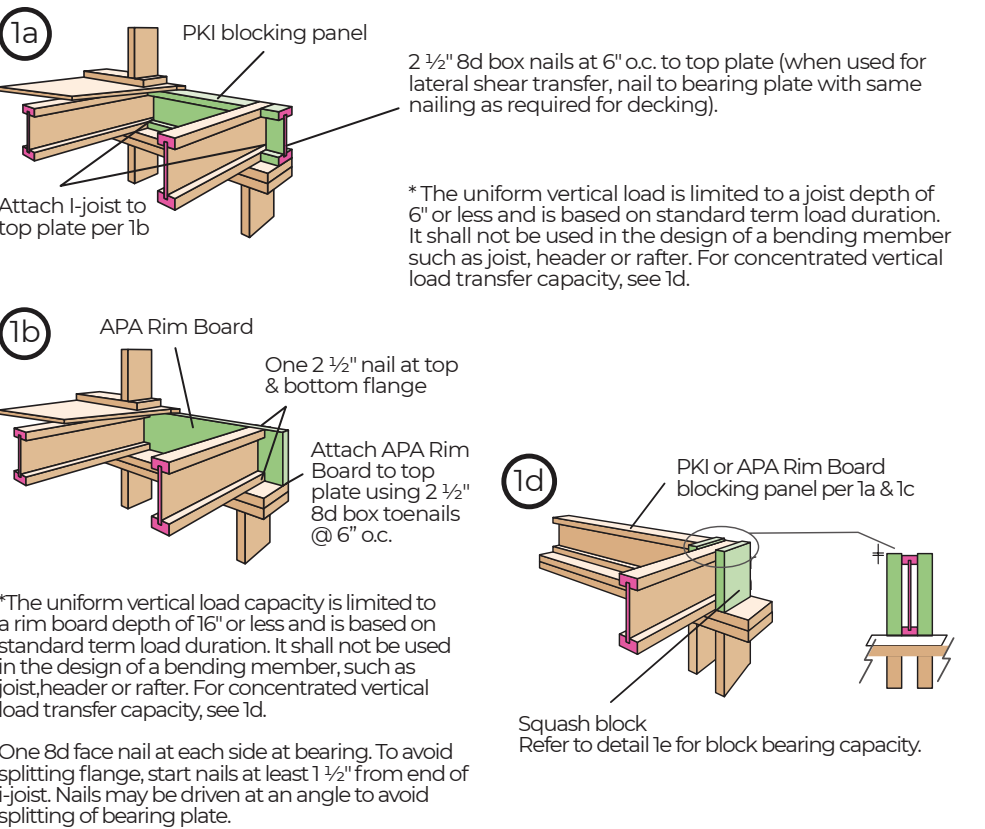
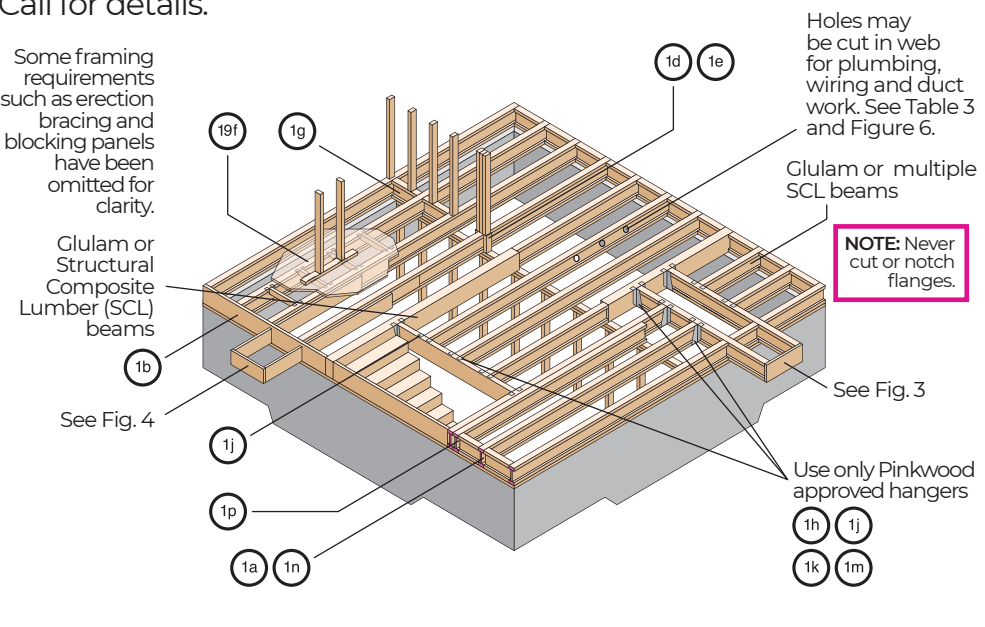
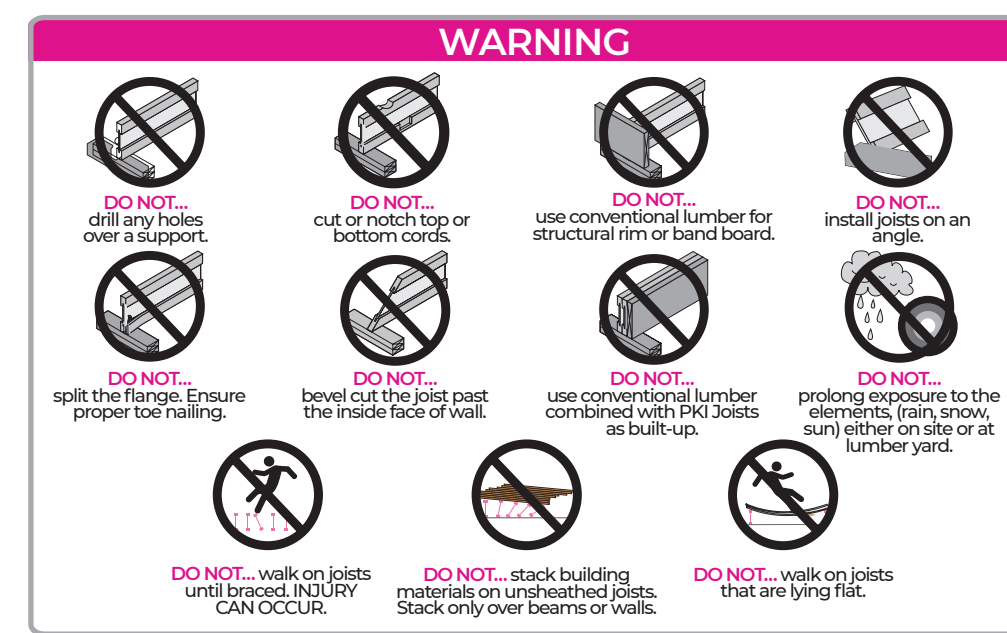


TABLE 10
ALLOWABLE LOCATION OF CIRCULAR HOLES IN PKI JOIST WEBS

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 1/4	10 3/4	12 3/4
9 1/2"	PKI 10	13'	1'-0"	2'-3"			
	PKI 20	15'	1'-0"	3'-4"			
	PKI 23	16'	1'-0"	2'-8"			
	PKI 35 Plus	16'	1'-0"	3'-11"			
	PKI 40	18'	1'-4"	4'-9"			
11 7/8"	PKI 10	15'	1'-0"	1'-0"	3'-7"		
	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"		
	PKI 40	22'	1'-0"	3'-6"	7'-3"		
14"	PKI 10	22'	1'-0"	1'-0"	2'-2"	5'-0"	
	PKI 20	18'	1'-0"	1'-0"	2'-8"	5'-7"	
	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"	
16"	PKI 10	20'	1'-0"	1'-0"	1'-6"	6'-10"	
	PKI 23	21'	1'-0"	1'-0"	3'-6"	6'-8"	
	PKI 35 Plus	21'	1'-0"	1'-0"	2'-0"	7'-5"	
	PKI 40	26'	1'-0"	1'-0"	3'-6"	9'-9"	
	PKI 50	26'	1'-0"	1'-0"	2'-1"	9'-0"	

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

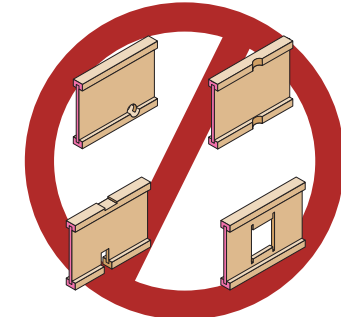


WEB HOLE SPECIFICATIONS

One of the benefits of using I-joists in residential 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". A minimum of 1/8" 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" 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.
- A 1 1/2" 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.



REINFORCED LOAD BEARING CANTILEVER TABLES

Joist Depth (IN)	Roof Truss Span (FT)	PKI 20							
		Roof Total Load (PSF)							
		Joist Spacing (IN)							
9 1/2"	35	16	19.22	41	6	19.22	41	6	19.22
		24	00	0	002	02	12	X	X
		26	00	0	10	1X	12	X	X
		28	00	0	10	1X	1X	X	X
		30	00	0	20	2X	2X	X	X
		32	00	0	20	2X	2X	X	X
		34	00	0	X1	XX	XX	X	X
		36	01	X1	XX	XX	XX	X	X
		38	01	X2	XX	XX	XX	X	X
		40	02	X2	XX	XX	XX	X	X
11 7/8"	45	24	00	0	001	00	02	2	X
		26	00	0	001	01	01	X	X
		28	00	0	002	01	01	X	X
		30	00	0	002	02	02	X	X
		32	00	0	002	12	12	X	X
		34	00	0	10	1X	1X	X	X
		36	00	0	10	1X	1X	X	X
		38	00	0	20	2X	2X	X	X
		40	00	0	20	2X	2X	X	X
14"	55	24	00	0	000	00	02	1	X
		26	00	0	000	00	02	2	X
		28	00	0	001	00	01	2	X
		30	00	0	001	01	01	X	X
		32	00	0	001	01	01	X	X
		34	00	0	002	01	01	X	X
		36	00	0	002	02	02	X	X
		38	00	0	10	1X	12	X	X
		40	00	0	10	1X	1X	X	X
16"		24	00	0	000	00	00	0	X
		26	00	0	000	00	00	1	X
		28	00	0	000	00	00	1	X
		30	00	0	000	00	00	2	X
		32	00	0	000	00	00	2	X
		34	00	0	001	01	01	2	X
		36	00	0	002	01	01	X	X
		38	00	0	002	01	01	X	X
		40	00	0	002	02	02	X	X

Joist Depth (IN)	Roof Truss Span (FT)	PKI 40							
		Roof Total Load (PSF)							
		Joist Spacing (IN)							
9 1/2"	35	16	19.22	41	6	19.22	41	6	19.22
		24	00	0	002	01	02	X	X
		26	00	0	002	02	02	X	X
		28	00	0	10	1X	12	X	X
		30	00	0	10	1X	1X	X	X
		32	00	0	20	2X	1X	X	X
		34	00	0	20	2X	2X	X	X
		36	00	0	21	2X	2X	X	X
		38	01	X1	XX	XX	XX	X	X
		40	01	X1	XX	XX	XX	X	X
11 7/8"	45	24	00	0	000	00	01	0	X
		26	00	0	000	00	00	2	X
		28	00	0	001	00	00	X	X
		30	00	0	001	01	01	X	X
		32	00	0	002	01	01	X	X
		34	00	0	002	02	02	X	X
		36	00	0	10	1X	12	X	X
		38	00	0	10	1X	1X	X	X
		40	00	0	10	1X	1X	X	X
14"	55	24	00	0	000	00	00	0	X
		26	00	0	000	00	00	1	X
		28	00	0	001	00	00	2	X
		30	00	0	001	01	01	2	X
		32	00	0	000	00	00	2	X
		34	00	0	001	00	01	X	X
		36	00	0	001	01	01	X	X
		38	00	0	002	01	01	X	X
		40	00	0	002	02	02	X	X
16"		24	00	0	000	00	00	0	X
		26	00	0	000	00	00	0	X
		28	00	0	000	00	00	0	X
		30	00	0	000	00	00	1	X
		32	00	0	000	00	00	1	X
		34	00	0	001	00	00	2	X
		36	00	0	001	01	01	2	X
		38	00	0	002	01	01	2	X
		40	00	0	002	02	02	2	X

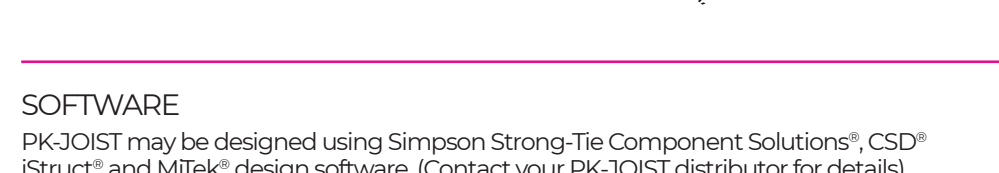
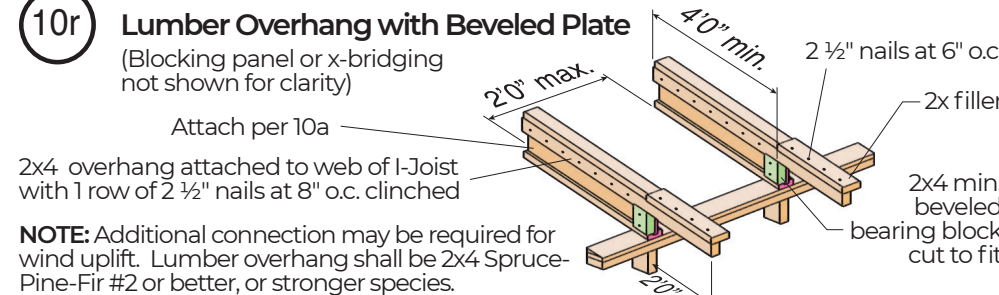
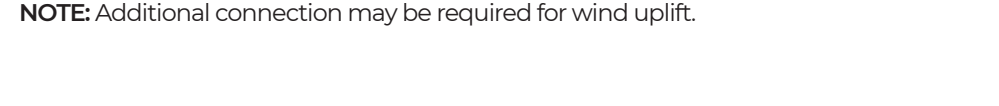
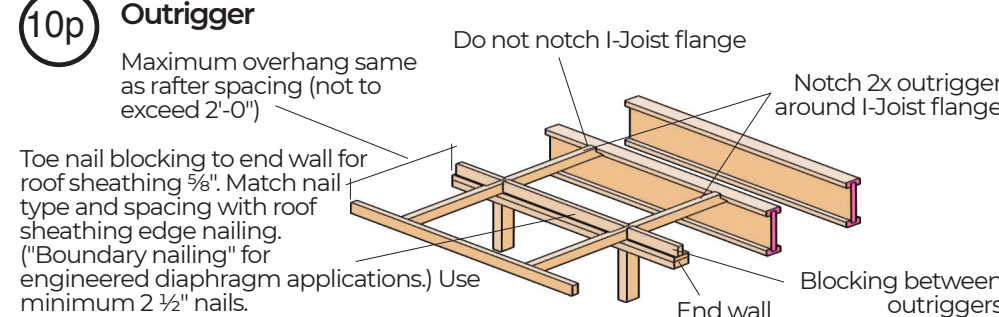
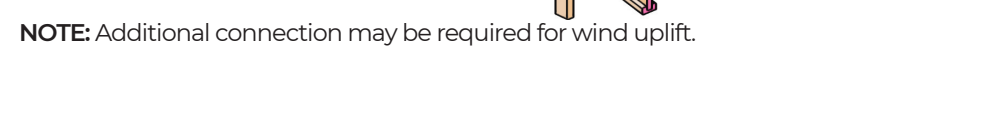
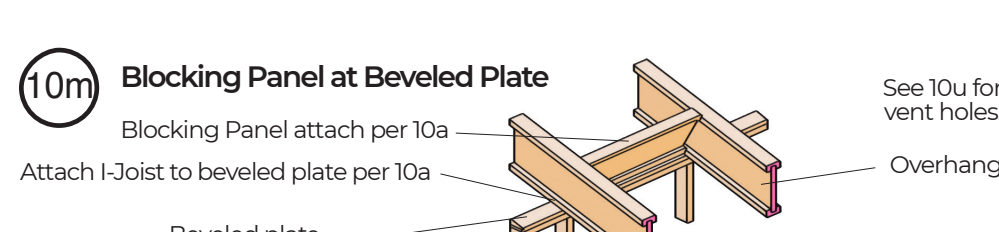
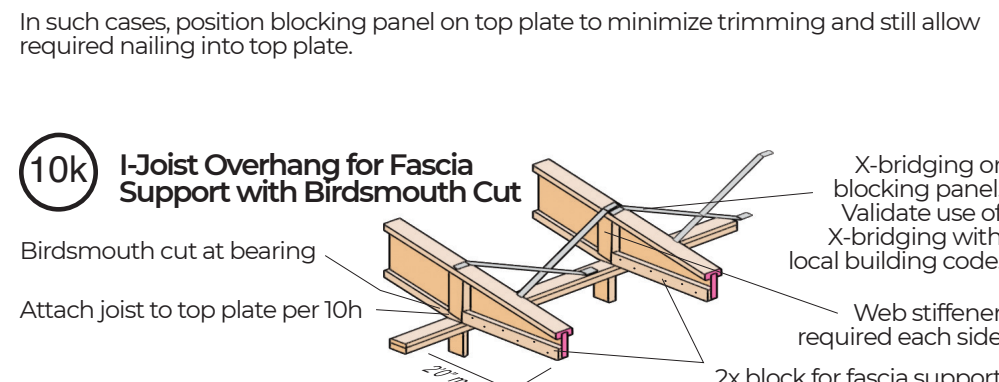
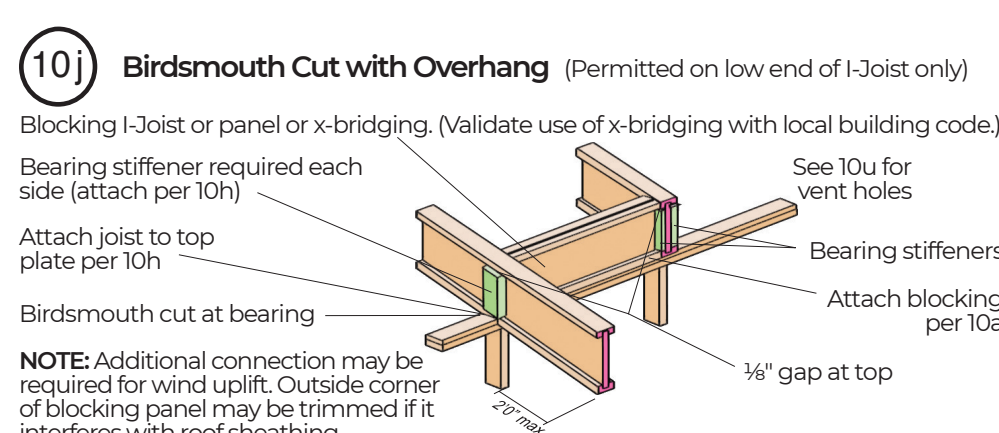
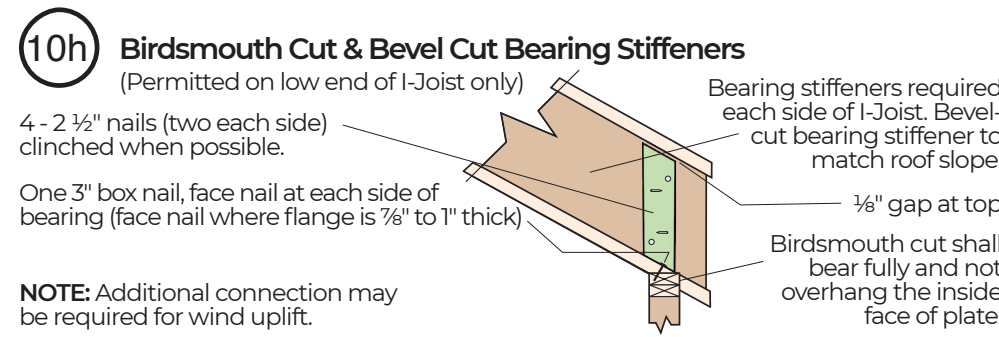
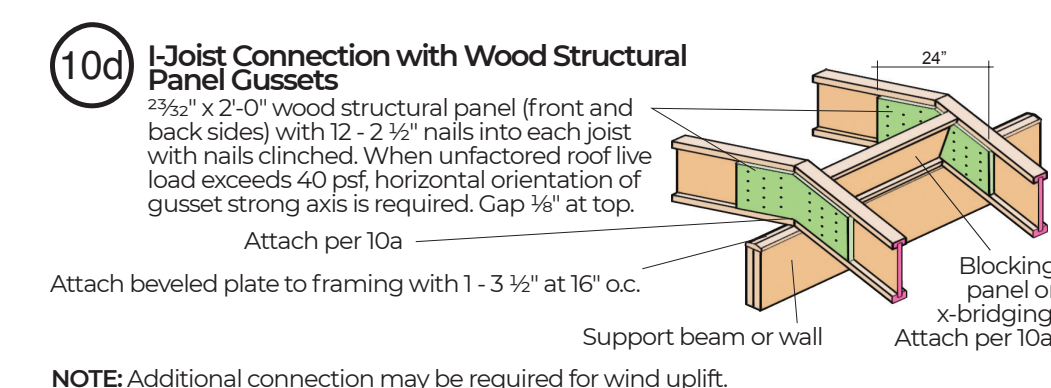
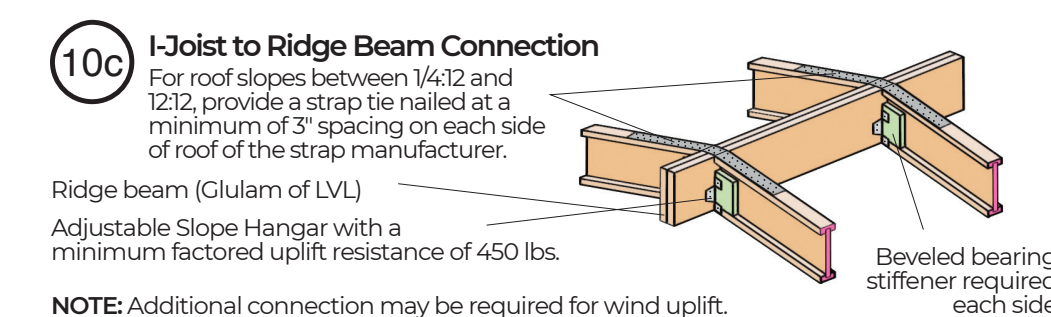
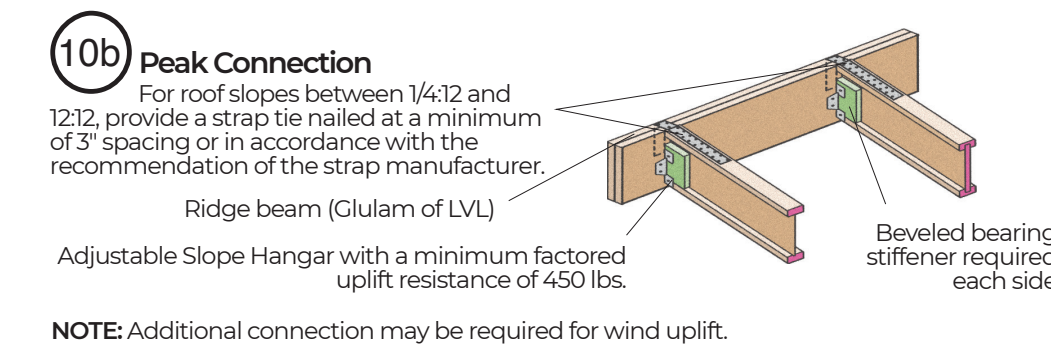
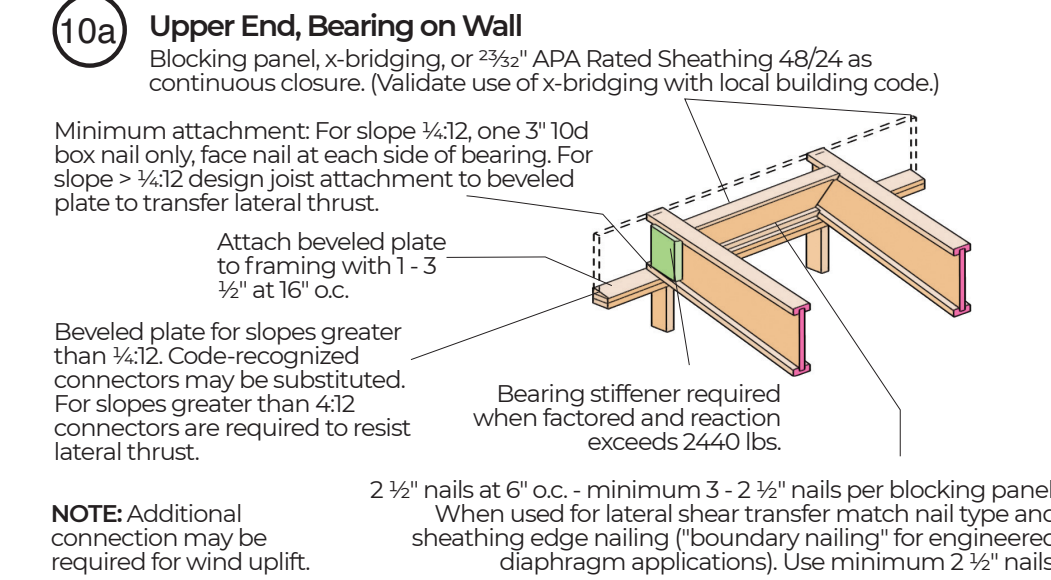
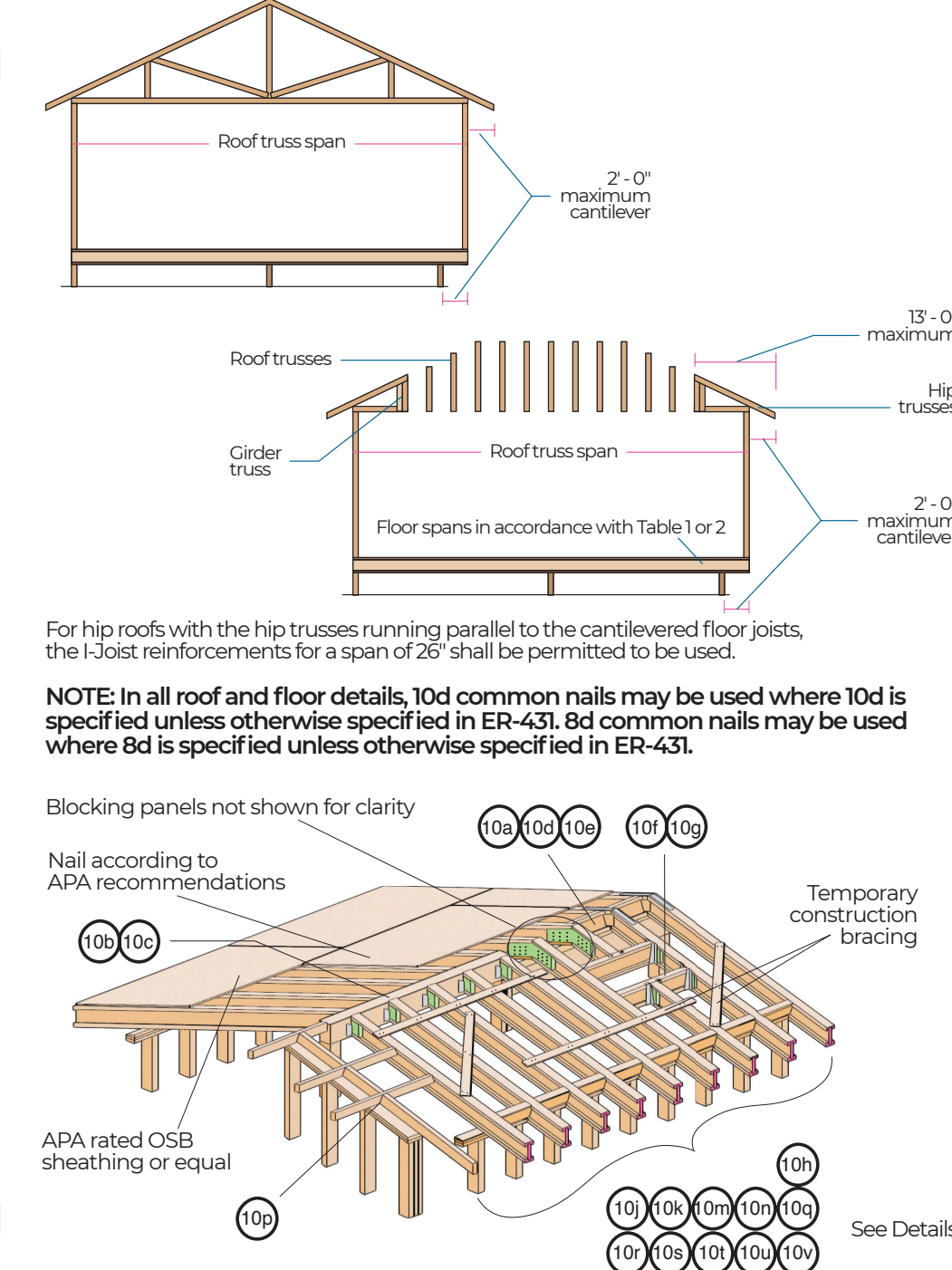
Table Legend:

- 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.

Notes:

- 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.
- Table applies to joists 16" to 24" o.c.
- 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 beam, the Roof Truss Span is equivalent to the distance between the supporting walls as if a truss is used.
- Joists spaced at 12" o.c. require no reinforcement.

See Table below for PKI reinforcement requirements at cantilever



SOFTWARE
PK-JOIST may be designed using Simpson Strong-Tie Component Solutions®, CSD® (iStruct® and Mitek® design software. (Contact your PK-JOIST distributor for details).

PK-JOIST are Manufactured by Pinkwood Ltd. Calgary Canada.

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Nota: Las series PKI 10, 20, 23, 35 Plus, 40 y 50 están disponibles. Llame para más detalles.

