PINKWOOD

WEBshield Handling & **Installation Recommendations**





walls.

21/2" x 11/2"

DO NOT walk DO NOT stack on joists until building materials braced. on unsheathed INJURY CAN joists. Stack only over beams or OCCUR

11/2" x 21/2'



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

31/2" x 11/2

31/2" x 11/2"

plate per 1a

- Load bearing wall above shall align

vertically with the wall below. Other

conditions, such as offset walls, are

Blocking required over all interior

supports under load-bearing

not covered by this detail.

walls or when floor joists

are not continuous

PKI blocking

panel per 1a

over support.



DO NOT walk

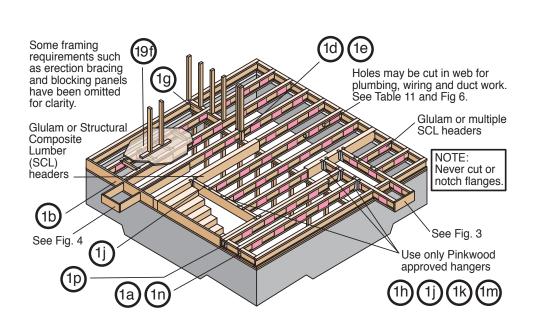
on joists that

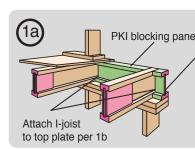
are lying flat.

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

31/2" x 11/2"

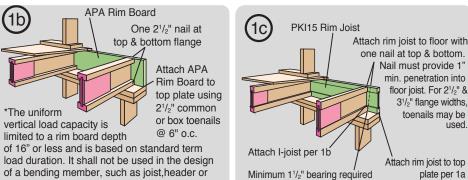
21/2" x 11/2

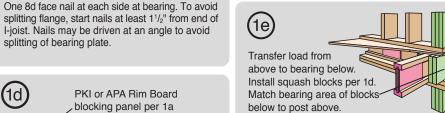


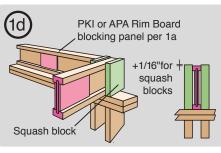


PKI blocking panel , 2-1/2" nails at 6" o.c. to top plate (when used for lateral shear transfer, nail to bearing plate with same nailing as

> *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 1d.

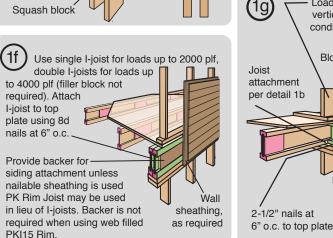




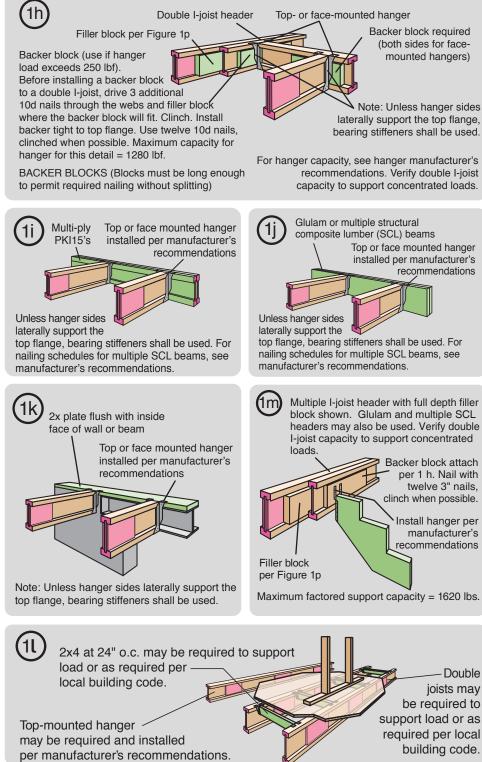


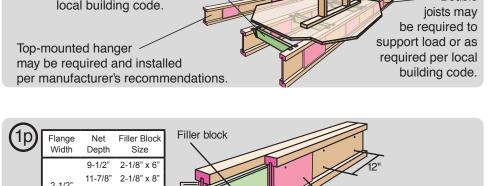
rafter. For concentrated vertical load transfer

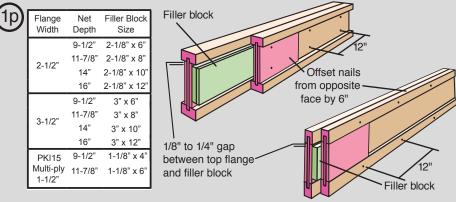
capacity, see 1d.



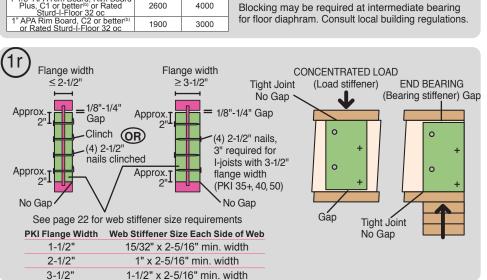


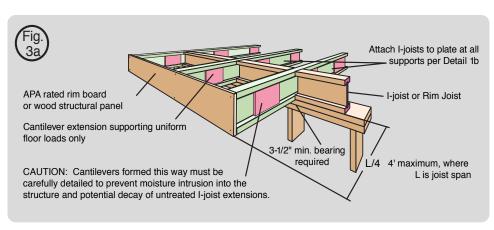


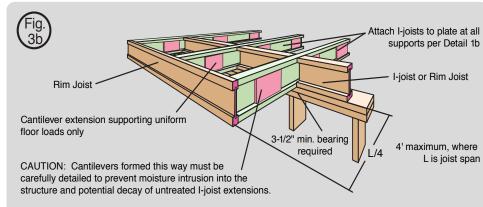




- 1. Support back of I-joist web during nailing to prevent damage to web/flange connection
- 2. Leave a 1/8-inch gap between top of filler block and bottom of top I-joist flange.
- 3. Filler block is required between joists for full length of span.
- 4. For flange widths of 2-1/2 inches or less, nail joists together with two rows of 10d nails 12" o.c. (clinched when possible) on each side of the double I-joist (total 4 nails per foot). For flange widths greater than 2-1/2", use two rows of 10d nails at 6 inches o.c. on each side of the double I-joist (total 8 nails per foot).
- 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 PinkWood representative for details.
- Load bearing wall above shall align + 1/16" for vertically with the wall below. Other conditions. blocks such as offset walls, are not covered by this detail. Squash blocks (+ 1/16" height over joist) Vertical load transfer capacity/ pr of squash blocks (lbf)^(a) 3-1/2" wide 5-1/2" wide 3800 5900 Pair of Squash Blocks 2600 4000 Blocking may be required at intermediate bearing







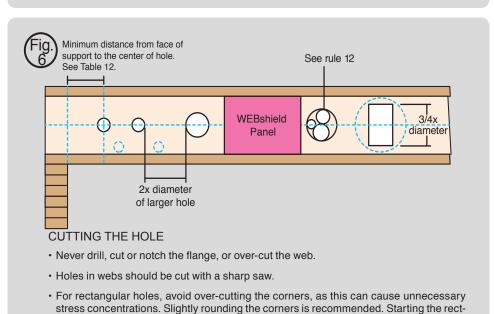
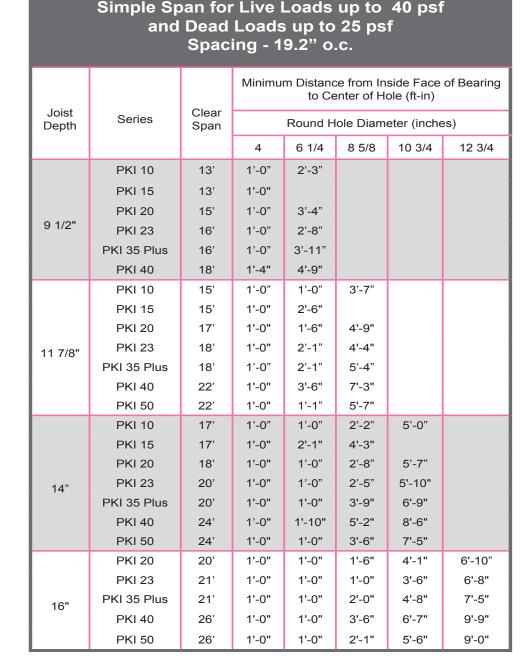


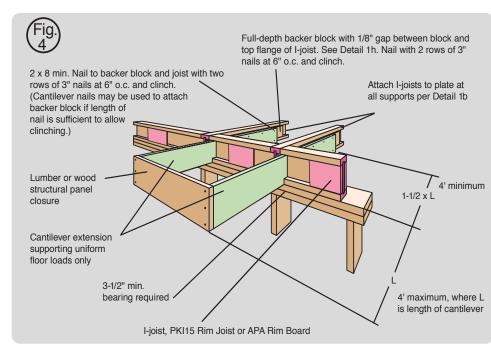
TABLE 10 ALLOWABLE LOCATION OF CIRCULAR HOLES IN PKI JOIST WEBS

angular hole by drilling a 1-inch-diameter hole in each of the four corners and then making

the cuts between the holes is another good method to minimize damage to the I-joist.



Note - Consult Pinkwood design software for loading and holes configurations different than those depicted in this guide.









cords.

use conventional lumber combined past the inside with PKI Joists face of wall. as built-up.



prolong exposure to the elements, (rain, snow, sun) either on-site or at lumber yard.

WEB HOLE SPECIFICATIONS

support.

split the flange.

Ensure proper

toe nailing

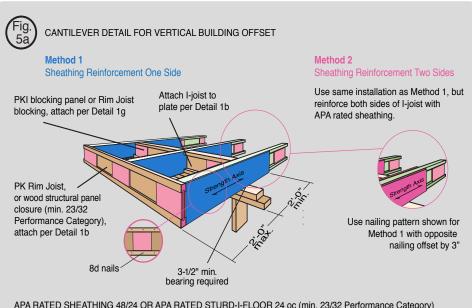
One of the benefits of using I-joists in residential floor construction is that holes may be cut in the joist webs to accommodate electrical wiring, plumbing lines and other mechanical systems, thereby minimizing the depth of the floor system.

Rules for cutting holes in PKI Joists

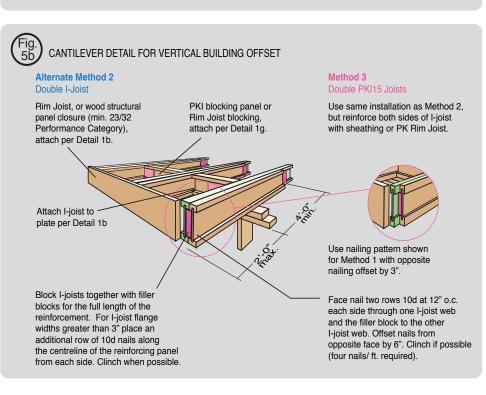
- 1) The distance between the inside edge of the support and the centerline of any hole shall be in compliance with the requirements of Table 12.
- 2) I-joist top and bottom flange should NEVER be cut, notched or otherwise modified.
- 3) Whenever possible, field-cut holes should be centered in the middle 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 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
- 5) Square and Rectangular holes are permitted in the joist web provided that an encompassing circumscribed round hole is permitted at that location
- 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
- 7) 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.
- 8) 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.
- 9) All holes shall be cut in a workman-like manner in accordance with the restrictions listed above and as illustrated in Figure 6.
- 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.

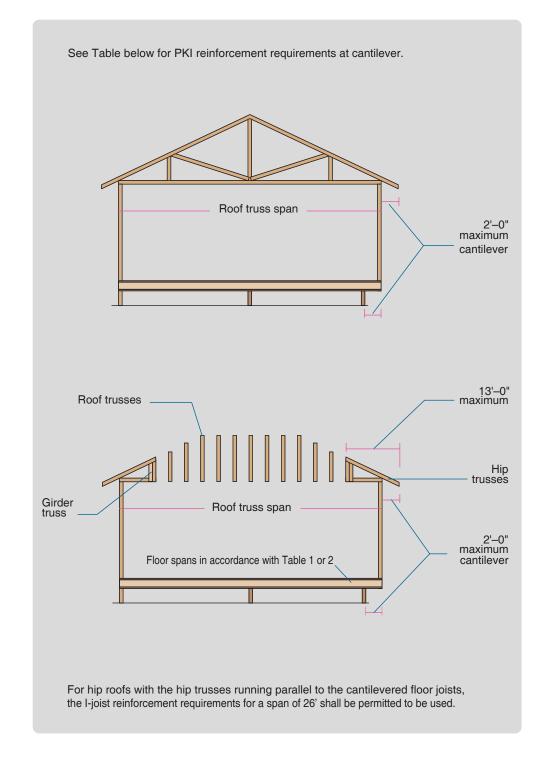






APA RATED SHEATHING 48/24 OR APA RATED STURD-I-FLOOR 24 oc (min. 23/32 Performance Category) required on sides of joist. Depth shall match the full height of the joist. Nail with 8d nails at 6" o.c., top and bottom flange. Install with face grain horizontal. Attach I-joist to plate at all supports per Detail 1b.





REINFORCED LOAD BEARING CANTILEVER TABLES

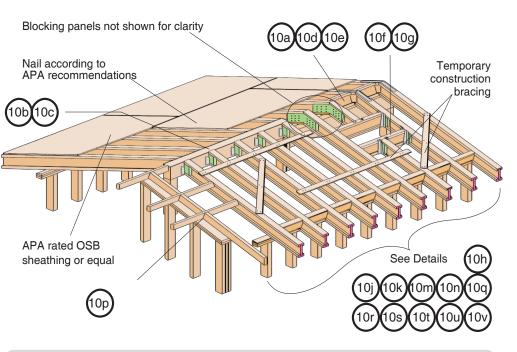
PKI20												PKI40										
Joist Depth (IN)	Roof Truss Span (FT)	Roof Total Load (PSF)										<u> </u>	σ <u> </u>	Roof Total Load (PSF)								
		35			45			55				pth (Trus	35			45			55		
		Joist Spacing (IN)									Joist Depth (IN)	Roof Truss Span (FT)	Joist Spacing (IN)									
- io		16	19.2	24	16	19.2	24	16	19.2	24		Jol		16	19.2	24	16	19.2	24	16	19.2	24
9-1/2	24	0	0	0	0	0	2	0	2	Х			24	0	0	0	0	0	2	0	1	Х
	26	0	0	1	0	1	Х	1	2	Х			26	0	0	0	0	0	2	0	2	Х
	28	0	0	1	0	1	Х	1	Χ	Χ			28	0	0	1	0	1	Χ	1	2	Х
	30	0	0	2	0	2	Х	2	Х	Х		01	30	0	0	1	0	1	Х	1	Χ	Х
	32	0	0	2	0	2	Х	2	Χ	Х		9-1/2	32	0	0	2	0	2	Х	1	Χ	Х
	34	0	0	Х	1	Χ	Х	Х	Χ	Χ			34	0	0	2	0	2	Χ	2	Х	Х
	36	0	1	Х	1	Χ	Х	Х	Χ	Χ			36	0	0	2	1	2	Χ	2	Х	Х
	38	0	1	Х	2	Х	Χ	Х	Х	Χ			38	0	1	Х	1	Χ	Χ	Х	Х	Х
	40	0	2	Х	2	Χ	Χ	Х	Χ	Χ			40	0	1	Х	1	Χ	Χ	Х	Х	Х
11-7/8	24	0	0	0	0	0	1	0	0	2		11-7/8	24	0	0	0	0	0	0	0	0	1
	26	0	0	0	0	0	1	0	1	Χ			26	0	0	0	0	0	0	0	0	2
	28	0	0	0	0	0	2	0	1	Χ			28	0	0	0	0	0	1	0	0	Х
	30	0	0	0	0	0	2	0	2	Χ			30	0	0	0	0	0	1	0	1	Х
	32	0	0	1	0	1	Χ	1	2	Χ			32	0	0	0	0	0	2	0	1	Х
	34	0	0	1	0	1	Х	1	Χ	Χ			34	0	0	0	0	0	2	0	2	Х
	36	0	0	1	0	1	Χ	1	Χ	Χ			36	0	0	1	0	1	Χ	1	2	Х
	38	0	0	2	0	2	Χ	2	Χ	Χ			38	0	0	1	0	1	Χ	1	Χ	Х
	40	0	0	2	0	2	Χ	2	Х	Х			40	0	0	1	0	1	Χ	1	Х	Х
41	24	0	0	0	0	0	0	0	0	1			24	0	0	0	0	0	0	0	0	0
	26	0	0	0	0	0	0	0	0	2			26	0	0	0	0	0	0	0	0	1
	28	0	0	0	0	0	1	0	0	2			28	0	0	0	0	0	0	0	0	1
	30	0	0	0	0	0	1	0	1	Χ			30	0	0	0	0	0	0	0	0	2
	32	0	0	0	0	0	1	0	1	Χ		4	32	0	0	0	0	0	0	0	0	2
	34	0	0	0	0	0	2	0	1	Χ			34	0	0	0	0	0	1	0	1	Х
	36	0	0	0	0	0	2	0	2	Χ			36	0	0	0	0	0	1	0	1	Х
	38	0	0	1	0	1	Χ	1	2	Χ			38	0	0	0	0	0	2	0	1	Х
	40	0	0	1	0	1	Χ	1	Χ	Χ			40	0	0	0	0	0	2	0	2	Χ
92	24	0	0	0	0	0	0	0	0	0			24	0	0	0	0	0	0	0	0	0
	26	0	0	0	0	0	0	0	0	1			26	0	0	0	0	0	0	0	0	0
	28	0	0	0	0	0	0	0	0	1	95		28	0	0	0	0	0	0	0	0	0
	30	0	0	0	0	0	0	0	0	2			30	0	0	0	0	0	0	0	0	1
	32	0	0	0	0	0	0	0	0	2		16	32	0	0	0	0	0	0	0	0	1
	34	0	0	0	0	0	1	0	1	2			34	0	0	0	0	0	0	0	0	1
	36	0	0	0	0	0	1	0	1	Χ			36	0	0	0	0	0	0	0	0	2
	38	0	0	0	0	0	2	0	1	Х			38	0	0	0	0	0	1	0	0	2
	40	0	0	0	0	0	2	0	2	Х		l	40	0	0	0	0	0	1	0	1	Χ

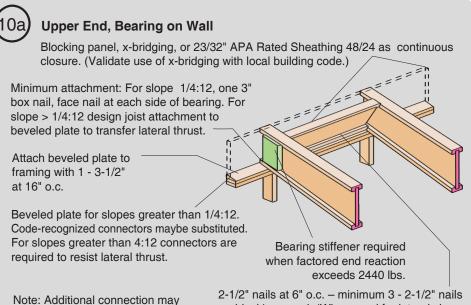
Table Legend:

- 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.

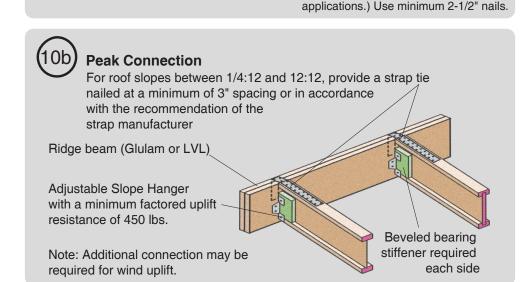




per blocking panel. (When used for lateral shear

("boundary nailing" for engineered diaphragm

transfer match nail type and sheathing edge nailing



be required for wind uplift.

