# PINKWOOD WEBshield Handling & **Installation Recommendations**



DO NOT walk on joists until INJURY CAN joists. Stack only OCCUR

2<sup>1</sup>/<sub>2</sub>" x 1<sup>1</sup>/<sub>2</sub>"



over beams or

walls.



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

 $3^{1}/_{2}$ " x  $1^{1}/_{2}$ "

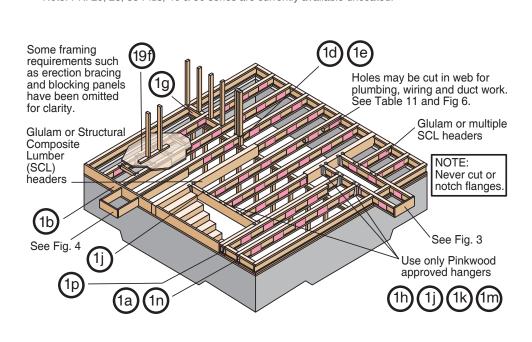
 $3^{1}/_{2}$ " x  $1^{1}/_{2}$ "

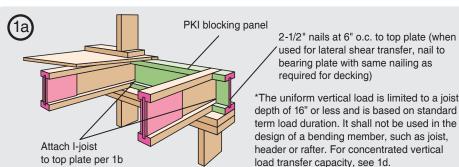


 $3^{1}/_{2}$ " x  $1^{1}/_{2}$ "

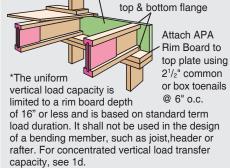
Note: PKI 20, 23, 35 Plus, 40 & 50 series are currently available uncoated.

 $2^{1}/_{2}$ " x  $1^{1}/_{2}$ "

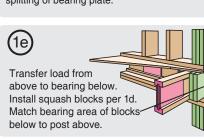


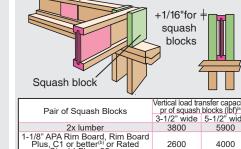


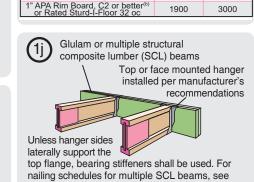
load transfer capacity, see 1d. PKI or APA Rim Board APA Rim Board blocking panel per 1a One 21/2" nail at

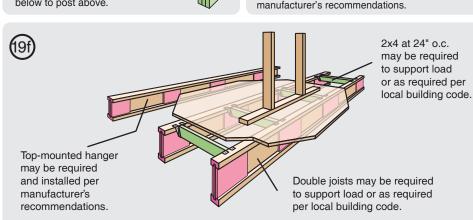


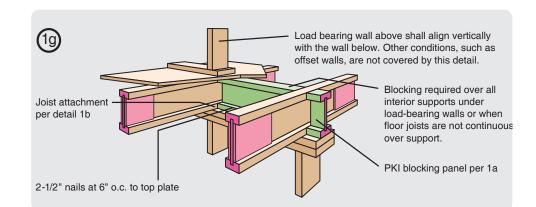
One 8d face nail at each side at bearing. To avoid splitting flange, start nails at least 11/2" from end of I-joist. Nails may be driven at an angle to avoid splitting of bearing plate.

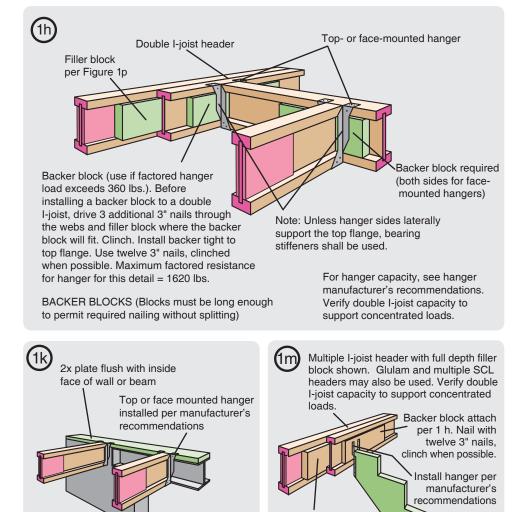


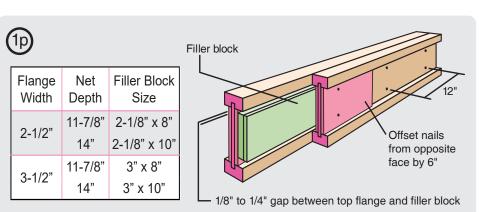












Filler block

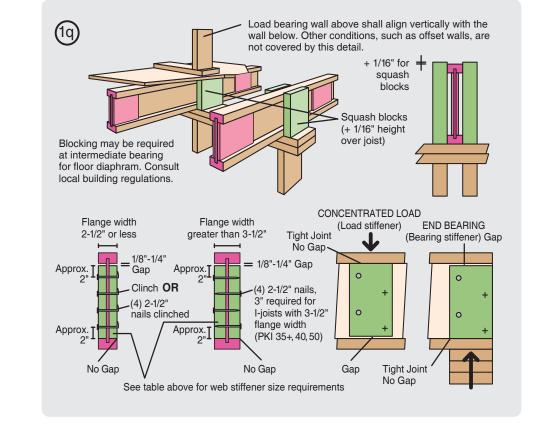
per Figure 1p

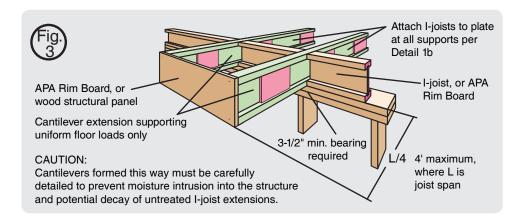
Maximum factored support capacity = 1620 lbs.

- 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

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

- 4. For flange widths of 2-1/2 inches or less, nail joists together with two rows of 10d nails 12 inches o.c. (clinched when possible) on each side of the double I-joist (total 4 nails per foot). For flange widths greate than 2-1/2 inches, use two rows of 10d nails at 6 inches o.c. on each side of the double I-joist (total 8 nail
- 5. The maximum load that may be applied to one side of the double joist using this detail is 620 lbf/ft.
- 6. For I-joist depths greater than 16 inches, please contact your PinkWood representative for details.





### NOTES

- (a) The following table may be used for I-joist spacing of 24 inches o.c. or less.
- (b) Hole location distance is measured from inside face of supports to center of hole.
- (c) Distances in this chart are based on uniformly loaded joists.
- (d) Hole sizes and/or locations that fall outside the scope of this table may be acceptable based on analysis of actual hole size, span, spacing and loading conditions. The I-joist shear capacity at the location of a circular web hole (V<sub>a</sub>) is calculated using the following equation:
- V<sub>+</sub> = Published Shear Value x [(Joist Depth Hole Diameter) / Joist Depth] (e) SAF = Span Adjustment Factor, used as defined below:

Table 5 is based on the I-joists used at their maximum span. If the I-joists are placed at less than their full allowable span, the maximum distance from the centerline of the hole to the face of any support (D) as given above may be reduced as follows:

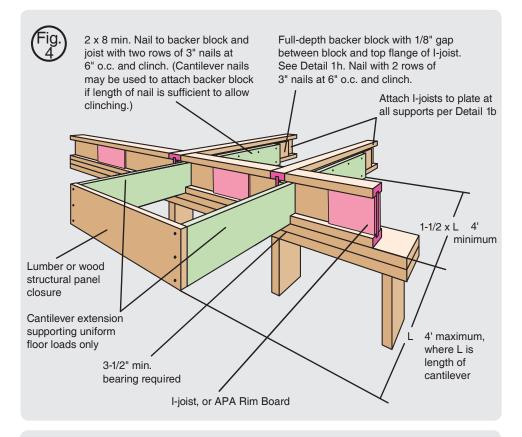
Where: D<sub>reduced</sub> Distance from the inside face of any support to center of hole, reduced for less-than-maximum span applications (ft). The reduced distance shall not be less than 12 inches from the face of the support to edge of

> L<sub>actual</sub> = The actual measured span distance between the inside faces of supports (ft).

Span Adjustment Factor given in this table.

= The minimum distance from the inside face of any support to center of hole from this table.

If \_actual is greater than 1, use 1 in the above calculation for \_actual



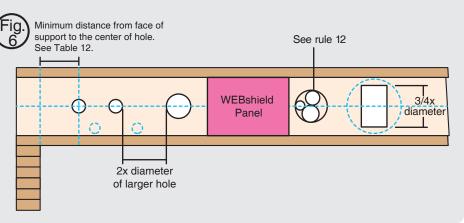


TABLE 11 - LOCATION OF CIRCULAR HOLES IN PKI JOIST WEBS

Simple or Multiple Span for Live Loads up to 40 psf and Dead Loads up to 15 psf															
	Series		Minimum Distance from Inside Face of Any Supports to Center of Hole (ft-in)												
Joist Depth		SAF	Round Hole Diameter (in.)												
			2	3	4	5	6	6 1/2	7	8	8 5/8	9	10	10 3/4	
11 7/8"	PKI 20	16.32	1'-1"	1'-2"	1'-5"	2'-8"	3'-11"	4'-3"	5'-2"	6'-8"	7'-11"				
	PKI 23	17.52	1'-1"	1'-2"	1'-2"	2'-6"	3'-10"	4'-3"	5'-4"	6'-10"	8'-2"				
	PKI 35 Plus	17.67	1'-1"	1'-2"	2'-4"	3'-7"	4'-10"	5'-2"	6'-2"	7'-9"	9'-1"				
	PKI 40	19.96	1'-5"	2'-9"	4'-1"	5'-6"	6'-11"	7'-3"	8'-5"	10'-1"	11'-2"				
	PKI 50	20.08	1'-1"	1'-2"	1'-2"	2'-7"	4'-5"	4'-10"	6'-3"	8'-2"	9'-6"				
14"	PKI 20	17.69	1'-1"	1'-2"	1'-2"	1'-5"	2'-7"	2'-10"	3'-9"	5'-0"	5'-10"	6'-4"	7'-10"	9'-8"	
	PKI 23	19.24	1'-1"	1'-2"	1'-2"	1'-3"	2'-2"	2'-6"	3'-6"	4'-11"	5'-10"	6'-4"	8'-0"	9'-9"	
	PKI 35 Plus	18.42	1'-1"	1'-2"	1'-3"	2'-5"	3'-7"	3'-10"	4'-9"	6'-1"	6'-11"	7'-6"	9'-4"	11'-5"	
	PKI 40	22.63	1'-1"	2'-2"	3'-5"	4'-9"	6'-1"	6'-5"	7'-6"	8'-11"	9'-11"	10'-6"	12'-2"	13'-7"	
	PKI 50	22.76	1'-1"	1'-2"	1'-2"	2'-4"	3'-11"	4'-4"	5'-6"	7'-3"	8'-4"	9'-0"	10'-11"	12'-5"	

### WEBSHIELD AND WEB HOLE SPECIFICATIONS

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

The following rules for cutting holes applies:

hole circumscribed around them.

- 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 11 of IAPMO Report UES-0431
- 2) I-joist top and bottom flanges must NEVER be cut, notched or otherwise modified.
- 3) Whenever possible, field-cut holes should be centered on 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
- 5) The sides of square holes or longest sides of rectangular holes should not exceed three-fourths of the diameter of the maximum round hole 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 11.
- 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
- 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) Maximum of one 6" hole is allowed in the WEBshield provided that an addtional minimum 6" of WEBshield is added to the penetrated panel. (see IAPMO UES0431) 12) A group of round holes at approximately the same location shall be permitted if they meet the requirements for a single round

## **WARNINGS**



drill any holes over a support.

cut or notch top or bottom cords.



install joists on an angle. rim or band board.



Ensure proper

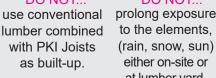
toe nailing.



bevel cut the joist past the inside face of wall.











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