



Pinkwood PKjoists® with WEBSHIELD® Large Hole Allowances (FRI Assembly)

WEBSHIELD holes larger than 6"

In applications where a Pinkwood PKjoist® FRI-Assembly requires a hole through the WEBSHIELD panel, IAPMO UES ER-431, section 3.5.2 states the following:

3.5.2 Web holes in FRI Assemblies: *Holes in webs of wood I-joists used in FRI Assemblies are subject to the maximum size and location requirements specified in the evaluation report for the wood I-joist complying Section 3.4.2.a of this report. Additionally, where the desired hole coincides with the location of a WEBSHIELD Panel, the following rules apply: A hole not exceeding 1½ inches (38.1 mm) in diameter may be located anywhere within a WEBSHIELD Panel. For adjacent 1½-inch-diameter (38.1 mm) holes, maximum, the spacing between holes shall be at least three times the largest hole diameter.*

- a. *When a 1½-inch-diameter (38.1 mm) hole is insufficient for the specific end-use application, a single maximum 6-inch-diameter (152 mm) hole may be cut in a WEBSHIELD Panel section. When such a hole is cut, additional 6-inch-wide (152 mm) full-depth partial WEBSHIELD Panels shall be installed back-to-back adjacent to the penetrated panels and fastened to the web as described in Figure 7 and Figure 8 of this report, using fasteners at the top and bottom of each panel in accordance with the installation instructions.*
- b. *When multiple 1½-inch-diameter (38.1 mm) holes, maximum are in a closely grouped area, the inscribed area shall not exceed a 6-inch-diameter (152 mm) circle.*

When hole dimensions, shapes, and sizes differ from those listed in this section, an analysis from a registered design professional is required, and is subject to the approval of the building official.

For 6" diameter holes and smaller, the instructions listed in IAPMO UES ER-0431 Section 3.5.2 do not require the approval of an engineer or design professional. Larger holes are permitted provided they are reviewed and approved by a licensed design professional. Engineering reviews are common for other conditions such as flange damage and web damage. Such conditions, including holes larger than 6" require a state recognized engineering seal.

If you have any questions, please contact XP-EWP for details.

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