

XJ 85[®] Wood I Beam[™] Joist
Georgia-Pacific Wood Products LLC

PR-L268
Revised August 20, 2008

Products: Georgia-Pacific XJ 85[®] Residential Floor I-Joists
Georgia-Pacific Wood Products LLC, 310 Cypress Road, Ocala, Florida 34472
(336) 599-1000
www.gp.com

1. Basis of the product report:
 - 2006 International Building Code: Section 104.11 Alternative Materials
 - 2006 International Residential Code: Section R104.11 Alternative Materials
 - ASTM D 5055-04 recognized by the 2006 IBC and IRC
 - APA Report T2007M-19 and other qualification data
2. Product description:

XJ 85 joists are a 16-inch-deep prefabricated wood I-joist made with 2x4 DSS grade or better lumber flanges and 5/8-inch OSB web in accordance with the in-plant manufacturing standard approved by APA. XJ 85 joists are intended for simple-span residential floor applications. The series consists of 11 different lengths from 6 to 26 feet in 2-foot increments in which the web contains precut holes of various sizes and shapes in accordance with Figure 1. One end of the XJ 85 joists may be trimmed (both ends may be trimmed on 6-foot XJ 85) to fit the application span. In addition, the XJ 85 joists are engineered for installation with a specific orientation (i.e., the flange marked with “top” shall be installed on top). The trimmable area of each I-joist is marked on each joist, as shown in Figure 2.
3. Design properties:

XJ 85 joists are pre-engineered for simple-span residential floor applications subjected to the maximum live load of 40 psf and dead load of 15 psf with the maximum joist span specified in Table 1 based on a live load deflection limit of span/480.
4. Product installation:

XJ 85 joists shall be installed in accordance with the recommendations provided by the manufacturer (www.gp.com/build/product.aspx?pid=6383) and this report. The joists shall be used in simple-span applications subject to uniform floor loads only, as specified in Table 1. Other applications or loading conditions such as multiple-span, cantilever applications, and non-uniform loads, are beyond the scope of this report. For those applications, contact Georgia-Pacific’s distributor at (888) 502-2583. Additional field-cut holes shall not be permitted in the XJ 85 joists. The non-trimmable end of XJ 85 joists shall not be cut. XJ 85 joists shall not be trimmed beyond the mark on the trimmable ends, as shown in Figure 2.
5. Fire-rated assemblies:

XJ 85 joists are rated for use in a 1-hour fire-rated assembly per Intertek Design No. GPW / FCA 60-01.
6. Limitations:
 - a) XJ 85 joists shall be limited to simple-span applications subject to the maximum uniform floor live loads of 40 psf and dead load of 15 psf only. Joists shall be limited to the allowable floor spans and spacings specified in this report.
 - b) XJ 85 joists shall be limited to dry service conditions where the average moisture content is less than 16 percent.

- c) XJ 85® Wood I Beam™ joists shall be installed with the “top” mark on top. Additional field-cut holes shall not be permitted in the I-joists. The non-trimmable end of XJ 85 joists (except the 6-foot XJ 85) shall not be cut. I-joists shall not be trimmed beyond the mark on the trimmable area.
- d) XJ 85 joists are produced at the Georgia-Pacific Wood Products LLC, Ocala, Florida facilities under a quality assurance program audited by APA.
- e) This report is subject to reexamination in 1 year.

7. Identification:

XJ 85 joists described in this report are identified by a label bearing the manufacturer's name (Georgia-Pacific Wood Products LLC) and/or trademark, the APA assigned plant number (1021), the I-joist depth (16 inches) and series (XJ 85), the APA-EWS logo, the report number PR-L268, and a means of identifying the date of manufacture.

Table 1. Allowable Clear Floor Spans for 16-in.-Deep XJ 85 Joists

Stock length	Maximum Allowable Clear Floor Span ^(a,b)
6'	5'-8"
8'	7'-8"
10'	9'-8"
12'	11'-8"
14'	13'-8"
16'	15'-8"
18'	17'-8"
20'	19'-8"
22'	21'-4" ^(c)
24'	23'-8" ^(d)
26'	25'-8" ^(d)

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 lbf = 0.454 kg.

- (a) For simple-span applications with floor live load of 40 psf and dead load of 15 psf at a joist spacing up to 24 inches unless otherwise noted in this table. The live load deflection limit is span/480.
Minimum end bearing length is 1.75 inches.
- (b) All limitations given in this report apply.
- (c) Maximum allowable clear span at 12, 16 and 19.2 inches oc is 21'-8".
- (d) Limited to joist spacing of 19.2 inches or less.

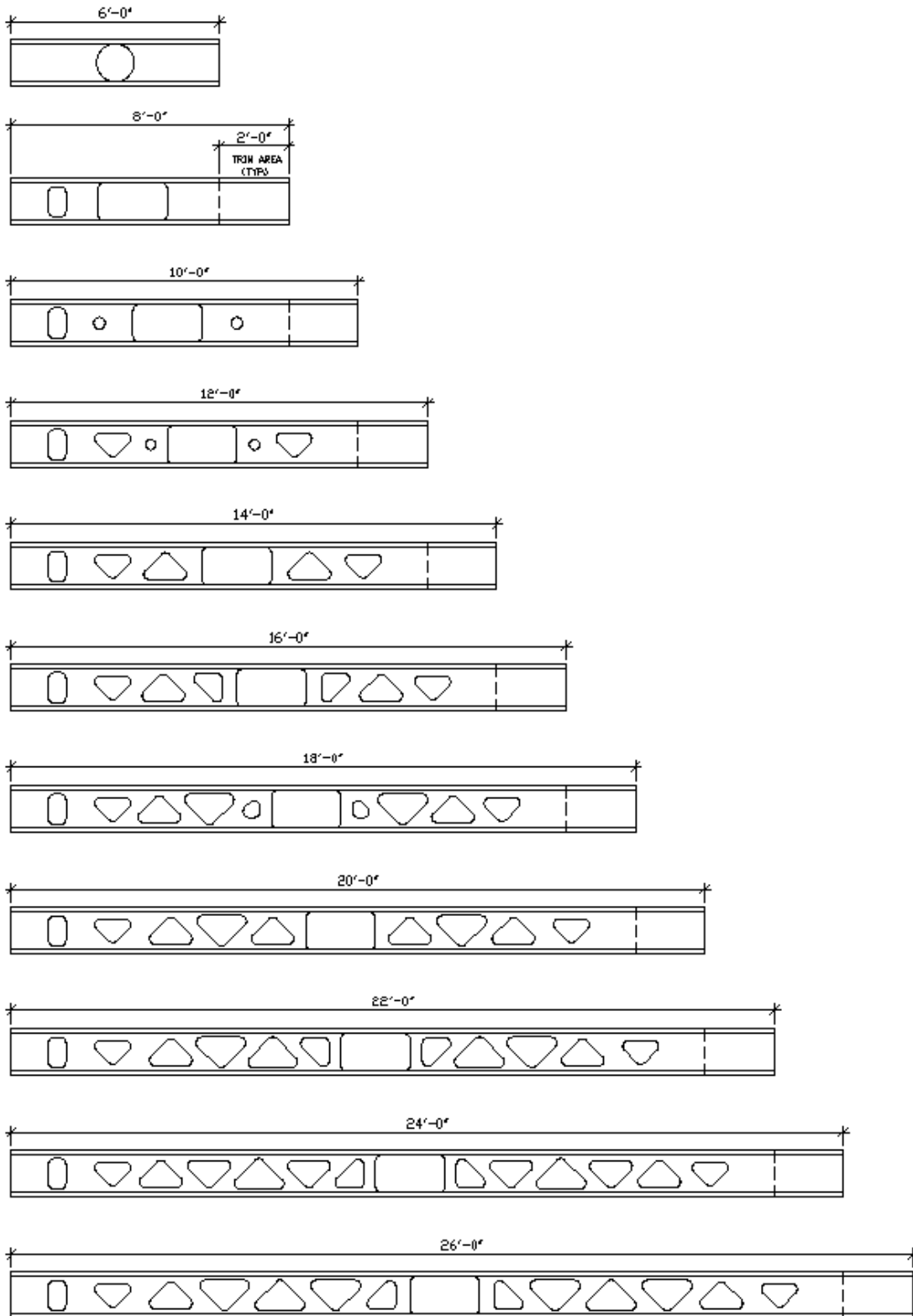


Figure 1. XJ 85® Wood I Beam™ Joist Layout Details

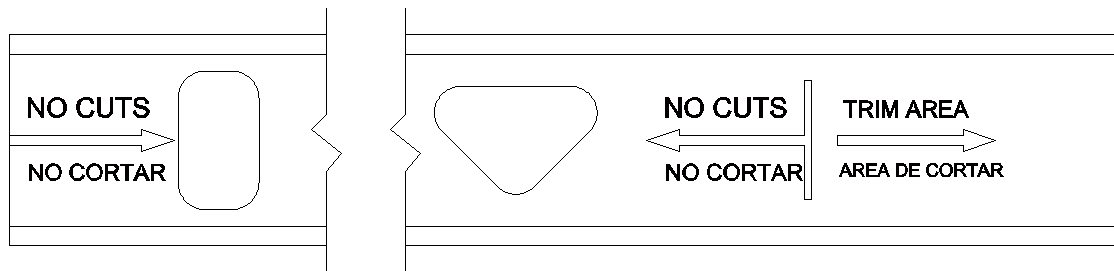


Figure 2. Marks of trimmable and non-trimmable area

APA – *The Engineered Wood Association* is an accredited certification body under ISO 65 by Standards Council of Canada (SCC) and an accredited inspection agency by the International Code Council (ICC) International Accreditation Service (IAS) under ISO/IEC 17020. APA is also an accredited testing organization recognized by IAS and SCC under ISO/IEC 17025. APA is a recognized testing laboratory by Miami-Dade County, and a Product Testing Laboratory, Product Quality Assurance Entity, and Product Validation Entity by the Florida Department of Community Affairs (DCA).

**APA – THE ENGINEERED WOOD ASSOCIATION
HEADQUARTERS**

7011 So. 19th St. • Tacoma, Washington 98466
Phone: (253) 565-6600 • Fax: (253) 565-7265 • Internet Address: www.apawood.org

PRODUCT SUPPORT HELP DESK
(253) 620-7400 • E-mail Address: help@apawood.org

DISCLAIMER

APA Product Report® is a trademark of APA – *The Engineered Wood Association*, Tacoma, Washington. The information contained herein is based on the product evaluation in accordance with the references noted in this report. Neither APA, nor its members make any warranty, expressed or implied, or assume any legal liability or responsibility for the use, application of, and/or reference to opinions, findings, conclusions, or recommendations included in this report. Consult your local jurisdiction or design professional to assure compliance with code, construction, and performance requirements. Because APA has no control over quality of workmanship or the conditions under which engineered wood products are used, it cannot accept responsibility of product performance or designs as actually constructed.