PINKWOOD

NEW SERIES Jan. 2020

Meeting North America's FIRE PERFORMANCE STANDARDS

RESIDENTIAL I-JOISTS

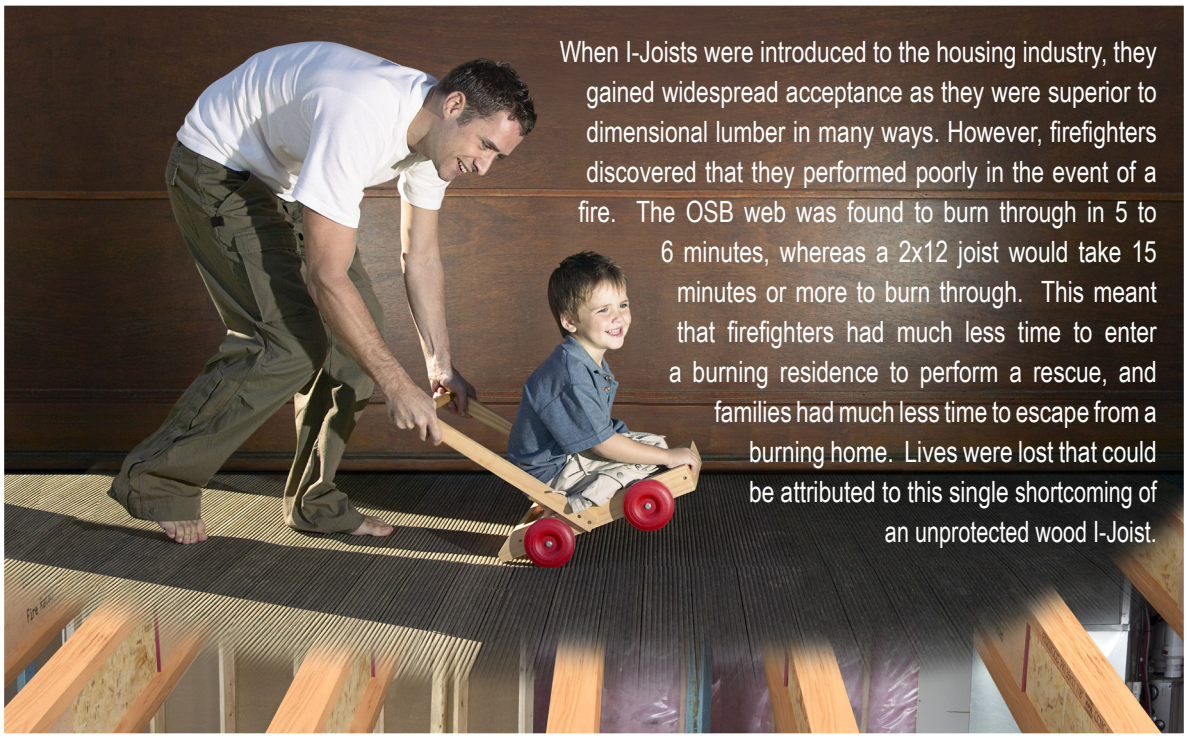
Fire Rated FRI15 and Standard PKI15

HOLMES APPROVED PRODUCTS

FRI joists by PINKWOOD

Your most COST EFFECTIVE Fire Performance Solution

WHY A FIRE PERFORMANCE STANDARD FOR I-JOISTS



When I-Joists were introduced to the housing industry, they gained widespread acceptance as they were superior to dimensional lumber in many ways. However, firefighters discovered that they performed poorly in the event of a fire. The OSB web was found to burn through in 5 to 6 minutes, whereas a 2x12 joist would take 15 minutes or more to burn through. This meant that firefighters had much less time to enter a burning residence to perform a rescue, and families had much less time to escape from a burning home. Lives were lost that could be attributed to this single shortcoming of an unprotected wood I-Joist.

FIRE RATED

In 2012, the issue was addressed in the US residential code (IRC 2012). A wood joist installed over an unfinished basement would have to survive 15.5 minutes in a severe prescribed fire test. CCMC in Canada has announced that this requirement is also being introduced in Canada in 2020.

THE NEW FRI15: APPROVED FOR USE OVER UNFINISHED BASEMENTS

The WEBshield panels are attached by Pinkwood during the Manufacturing Process

BENEFITS

FRI15

1. The FRI15 meets the US and Canadian Fire Performance Standard for an I-Joist.
2. As the WEBshields are now attached, the FRI15 offers the Builder a one step solution to comply with the code.
3. This lightweight, and very versatile joist is favored by framers and sub-trades.
4. This joist may be easily penetrated between the WEBshields.
5. Competitively priced.

US Pat No.	US D796,063 S
US Pat No.	US 10,240,341 B2
Canadian Industrial Design:	167981
Canadian Industrial Design:	165218
Canadian Patent Pending.	

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Intertek

THE PKI15: A RELIABLE STANDARD AND COMPETITIVE ALTERNATIVE

PKI15

DIMENSIONS

PKI15 and FRI15 series I-joists are manufactured with 2x3 solid-sawn dimensional lumber flanges and 3/8" webs.

SIMPLE SPAN: 40 PSF LL/15 PSF DL (L/480)

JOIST DEPTH	JOIST TYPE	W/O CEILING DIRECTLY APPLIED O/C SPACING				WITH CEILING DIRECTLY APPLIED O/C SPACING			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
11 7/8"	FRI15-12 & PKI15-12	US - Simple Span - 40 PSF LL / 15 PSF DL (L/480)							
		20'-0"	17'-9"	16'-2"	14'-6"	20'-0"	17'-9"	16'-2"	14'-6"
		Canada - Simple Span - 40 PSF LL / 15 PSF DL (L/480)							
		18'-1"	17'-1"	16'-6"	15'3"	18'-9"	17'-8"	17'-0"	15'-3"

NOTES ON SPAN TABLES

1. Composite action with a single layer of 24" on-center span-rated nailed and glued sub-floor panels.
2. Deflection due to total load is limited to L/240.
3. Minimum required end bearing length is 1-1/2"
4. The maximum simple spans in the tables are design spans measured from the centers of minimum end bearings.
5. The ceiling, where applicable, shall be a single layer of 1/2" thick gypsum board directly applied to the I-joists.
6. For multiple spans or load conditions not shown, please consult Pinkwood approved software.
7. Adhesive shall meet ASTM D3498 or APA Specification AFG-01 or CAN/CGSB 71.26-M88

IAPMO MEMBER

GUARANTEED FOR LIFE

PINKWOOD.ca PINKWOOD USA.com

For more information please phone us at: (403) 279-3700

FRI15: Certified for use in Canada and the USA

IAPMO - UES ER-431 / ER-653

CCMC - 14001-R

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