



Features & Benefits

The WIDE Flange Solution



Advantages

MASTER-I's are the ideal choice for designers and builders who want to supply their customers with high quality floor systems. They provide consistent performance for the most demanding applications.

Wide Flange

MASTER-I's are constructed with 2-1/2" and 3-1/2" flange material versus as narrow as 1-1/2" with other manufacturers. Benefits like a greater nailing/gluing surface, less splitting during nailing and increased stability during setting make **MASTER-I** the framer's choice.

Design Flexibility—More Open Spaces

The availability of long lengths allows for multiple span installations and speeds construction by eliminating the need to lap joists over bearing walls or support beams. This also means fewer pieces to handle. The availability of long lengths and relatively deep joists also gives designers the freedom to create more open spaces and reduces the need for supporting walls, columns, or beams.

Dimensionally Stable

MASTER-I's will not warp, twist, or shrink, and are more uniform in their dimensions than sawn lumber joints. The L/480 live load deflection criteria, combined with their straightness and uniformity provides a stiffer, more uniform floor with fewer squeaks, resulting in higher customer satisfaction.

Simple to Install

MASTER-I saves builders time, and therefore money. **MASTER-I** can be cut and fastened with traditional framing tools and fasteners no special tools are required. In addition, span ratings for uniformly loaded glued/nailed residential floors for both simple and multiple span appli-

cations are clearly stamped on each **MASTER-I**, making them easier for builders and remodelers to install properly, and more visible for code officials to inspect. Since **MASTER-I** can typically be used at greater joist spacings than lumber, fewer pieces must be cut and handled on the jobsite, making **MASTER-I** installation less costly and less wasteful for the builder.

Lightweight

MASTER-I's typically weigh less than half of comparable conventional framing lumber, so they can be installed quickly and efficiently.

Web Holes

The wood structural panel webs in **MASTER-I** permit holes to be easily cut on the jobsite to allow the passage of electrical wiring, plumbing and ductwork. This cannot always be accomplished with sawn lumber joists and such mechanical systems must be passed under the joist system.



Resource Friendly

In production, **MASTER-I's** use up to 50% less wood fiber than conventional lumber joists, allowing for more efficient use of our natural resources.

Contact a Finnforest USA representative for more information about Master Plank® LVL boards.

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Every MASTER-I is produced in accordance with the American Plywood Association (APA) and Engineered Wood Association (EWA) Performance Rated I-Joist Standard; the PRI-400.

Warranty

All **MASTER-I** products are warranted to be free of manufacturing defects.

Product Warranty

The **Stark Truss Company, Inc.** warrants **Master-I joists** to be free from manufacturers' defects or errors in workmanship and material in accordance with our specifications. We further guarantee that these products, when correctly installed, will meet or exceed their design specifications for the normal life of the structure.

What is the PRI-400?

In July, 1997 APA - The Engineered Wood Association announced a new performance standard for prefabricated wood I-joists similar to the one APA developed in the 1980's for OSB and plywood ((PRP-108).

The new standard, PRI-400, provides a span rating system for a series of I-joists used in residential floor construction. To qualify for the I-joist trademark, the I-joist manufacturer must demonstrate conformance to the performance requirements for the span ratings, as well as to the design properties set forth in the standard.

Performance Rated I-joists, or PRI's, have common load/span tables, uniform rules and guidelines for installation and consistent engineering design values. Span ratings are stamped right on the products, making it easy to install properly and easy for code officials to inspect. The stamp clearly says how far it will span at a given spacing for uniform load applications. The APA EWS trademark ensures superior I-joist quality and consistent performance.

Floor Load - Simple Span Table

(40 PSF LL + 10 PSF DL, LL deflection L/480)				ON CENTER SPACING			
JOIST DEPTH	MSR FLANGE	APA SERIES		12"	16"	19.2"	24"
9-1/2"	2x3 1650	PRI-40		18'-0"	16'-6"	15'-7"	14'-1"
9-1/2"	2x3 2100	PRI-60		19'-0"	17'-4"	16'-4"	15'-4"
11-7/8"	2x3 1650	PRI-40		21'-6"	19'-7"	18'-2"	16'-3"
11-7/8"	2x3 2100	PRI-60		22'-8"	20'-8"	19'-6"	18'-3"
11-7/8"	2x4 2100	PRI-80		24'-11"	22'-8"	21'-4"	19'-11"
14"	2x3 1650	PRI-60		25'-9"	23'-6"	22'-2"	20'-9"
14"	2x4 2100	PRI-80		28'-3"	25'-9"	24'-3"	22'-8"
16"	2x3 2100	PRI-60		28'-7"	26'-1"	24'-7"	23'-0"
16"	2x4 2100	PRI-80		31'-4"	28'-6"	26'-11"	25'-1"

Notes: Chart based on uniform loads. Spans based on composite floor with glued/nailed sheathing. Minimum bearing length is 1.75".

APA Quality Assured

The APA trademark ensures superior I-joist quality and consistent performance. All products will be subject to the proven quality assurance program of APA.



The APA Performance Rated I-Joist Advantage...MASTER-I

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