

*The Wide Flange
Solution*



Dimensionally Stable

Lightweight

Design Flexibility

Simple to Install

Resource Friendly



I-JOISTS for Residential Floor Systems

Lightweight, Easy to Specify & Install!

Master-I Joists are the ideal choice for high quality residential floor systems. They offer designers and builders consistent performance for the most demanding applications.

The longer lengths offered by Master-I's give designers the freedom to design more open space into their projects, reducing the need for supporting walls, columns, and beams.

Builders like them because they allow multiple span installations without the need to lap joists over bearing walls or support beams - saving time and money. Webs are easily cut onsite for mechanical pass through. There are

fewer pieces to handle, and Master-I's can be cut and fastened with traditional framing tools and fasteners. Plus, they weigh much less than comparable conventional lumber!

Framers appreciate the extra-wide nailing flange; 2-1/2" or 3-1/2", compared to other manufacturers' 1-1/2" width.

Master-I's won't warp, twist or shrink, and offer more uniform dimensions than sawn lumber joists.

The Choice of Designers, Builders & Framers!

Look for the APA/EWS trademark. It ensures superior I-joist quality & consistent performance...



Allowable Spans for Master-I Joists

L/360 Live Load • Glue/Nailed Floors • Allowable Spans 40 psf LL + 10 psf DL

Depth	Designation	SIMPLE SPAN			
		12" oc	16" oc	19.2" oc	24" oc
9-1/2"	PRI-40	19'-11"	17'-3"	15'-9"	14'-1"
	PRI-60	21'-0"	19'-2"	18'-1"	16'-6"
11-7/8"	PRI-40	23'-1"	19'-11"	18'-2"	16'-3"
	PRI-60	25'-0"	22'-11"	21'-5"	19'-1"
	PRI-80	27'-7"	25'-1"	23'-8"	22'-2"
14"	PRI-60	28'-5"	26'-0"	23'-9"	21'-2"
	PRI-80	31'-3"	28'-6"	26'-11"	25'-2"
16"	PRI-60	31'-7"	28'-2"	25'-9"	23'-0"
	PRI-80	34'-8"	31'-7"	29'-9"	25'-5"

MULTIPLE SPAN			
12" oc	16" oc	19.2" oc	24" oc
19'-10"	17'-2"	15'-8"	14'-0"
22'-10"	20'-2"	18'-5"	16'-5"
23'-0"	19'-11"	18'-2"	16'-2"
27'-0"	23'-4"	21'-4"	19'-1"
30'-0"	27'-4"	25'-5"	21'-10"
30'-0"	25'-11"	23'-8"	19'-9"
34'-1"	30'-10"	28'-2"	23'-11"
32'-6"	28'-1"	24'-9"	19'-9"
37'-10"	33'-6"	30'-0"	23'-11"

L/360 Live Load • Glue/Nailed Floors • Allowable Spans 40 psf LL + 20 psf DL

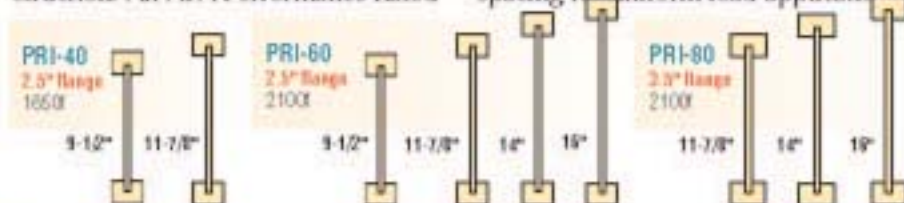
Depth	Designation	SIMPLE SPAN			
		12" oc	16" oc	19.2" oc	24" oc
9-1/2"	PRI-40	18'-2"	15'-9"	14'-4"	12'-10"
	PRI-60	21'-0"	18'-6"	16'-10"	15'-1"
11-7/8"	PRI-40	21'-0"	18'-2"	16'-7"	14'-10"
	PRI-60	24'-9"	21'-5"	19'-6"	17'-5"
	PRI-80	27'-7"	25'-1"	23'-3"	20'-9"
14"	PRI-60	27'-5"	23'-9"	21'-8"	19'-4"
	PRI-80	31'-3"	28'-3"	25'-9"	21'-2"
16"	PRI-60	29'-9"	25'-9"	23'-6"	19'-10"
	PRI-80	34'-8"	30'-7"	26'-6"	21'-2"

MULTIPLE SPAN			
12" oc	16" oc	19.2" oc	24" oc
18'-1"	15'-8"	14'-3"	12'-9"
21'-4"	18'-5"	16'-9"	14'-2"
21'-0"	18'-2"	16'-6"	14'-9"
24'-8"	21'-4"	19'-5"	16'-5"
29'-4"	25'-5"	22'-9"	18'-2"
27'-4"	23'-8"	20'-7"	16'-5"
32'-7"	28'-2"	24'-11"	19'-11"
29'-8"	24'-9"	20'-7"	16'-5"
35'-4"	30'-0"	24'-11"	19'-11"

APA Quality Assurance

All Master-I joists are produced in accordance with the American Plywood Association (APA) and Engineered Wood Association (EWS) Performance Rated I-joist Standard that was introduced in 1997. The APA/EWS standard provides a span rating system for I-joists used in residential construction. All APA Performance Rated

I-joists, or PRIs have common load/span tables (see chart below), uniform rules and guidelines for installation, and consistent engineering design values. Span ratings are stamped right on the product, making it easy to install properly, and for code officials to inspect. The stamp tells how far the joist will span at a given spacing for uniform load applications.



Allowable Spans for Master-I Joists

L/480 Live Load • Glue/Nailed Floors • Allowable Spans 40 psf LL + 10 psf DL

Depth	Designation	SIMPLE SPAN				MULTIPLE SPAN			
		12' oc	16' oc	19.2' oc	24' oc	12' oc	16' oc	19.2' oc	24' oc
9-1/2"	PRI-40	18'-0"	16'-6"	15'-7"	14'-1"	19'-7"	17'-2"	15'-8"	14'-0"
	PRI-60	19'-0"	17'-4"	16'-4"	15'-4"	20'-8"	18'-10"	17'-9"	16'-5"
11-7/8"	PRI-40	21'-6"	19'-7"	18'-2"	16'-3"	23'-0"	19'-11"	18'-2"	16'-2"
	PRI-60	22'-8"	20'-8"	19'-6"	18'-3"	24'-8"	22'-6"	21'-2"	19'-1"
	PRI-80	24'-11"	22'-8"	21'-4"	19'-11"	27'-1"	24'-8"	23'-3"	21'-8"
14"	PRI-60	25'-9"	23'-6"	22'-2"	20'-9"	28'-1"	25'-7"	23'-8"	19'-9"
	PRI-80	28'-3"	25'-9"	24'-3"	22'-8"	30'-10"	28'-0"	26'-5"	23'-11"
16"	PRI-60	28'-7"	26'-1"	24'-7"	23'-0"	31'-2"	28'-1"	24'-9"	19'-9"
	PRI-80	31'-4"	28'-6"	26'-11"	25'-1"	34'-2"	31'-1"	29'-3"	23'-11"

L/480 Live Load • Glue/Nailed Floors • Allowable Spans 40 psf LL + 20 psf DL

Depth	Designation	SIMPLE SPAN				MULTIPLE SPAN			
		12' oc	16' oc	19.2' oc	24' oc	12' oc	16' oc	19.2' oc	24' oc
9-1/2"	PRI-40	18'-0"	15'-9"	14'-4"	12'-10"	18'-1"	15'-8"	14'-3"	12'-9"
	PRI-60	19'-0"	17'-4"	16'-4"	15'-1"	20'-8"	18'-5"	16'-9"	14'-2"
11-7/8"	PRI-40	21'-0"	18'-2"	16'-7"	14'-10"	21'-0"	16'-2"	16'-6"	14'-9"
	PRI-60	22'-8"	20'-8"	19'-6"	17'-5"	24'-8"	21'-4"	19'-5"	16'-5"
	PRI-80	24'-11"	22'-8"	21'-4"	19'-11"	27'-1"	24'-8"	22'-9"	18'-2"
14"	PRI-60	25'-9"	23'-6"	21'-8"	19'-4"	27'-4"	23'-8"	20'-7"	16'-6"
	PRI-80	28'-3"	25'-9"	24'-3"	21'-2"	30'-10"	28'-0"	24'-11"	19'-11"
16"	PRI-60	28'-7"	25'-9"	23'-6"	19'-10"	29'-8"	24'-9"	20'-7"	16'-5"
	PRI-80	31'-4"	28'-6"	26'-6"	21'-2"	34'-2"	30'-0"	24'-11"	19'-11"

Notes: • Maximum bearing length: 3-3/4" for end bearings
• Bearing stiffeners not required when I-joists are used with spans & spacings given in this table, except as required for hangers.
• Spans noted in above chart are based on uniform loads.

Notes: • Min. bearing length: 3-3/4" End bearings, 3-1/2" Intermediate bearings
• Bearing stiffeners not required when I-joists are used with spans & spacings given in the table, except as required for hangers.
• Spans noted in above chart are based on uniform loads.

I-JOISTS for Residential Floor Systems



Consistent Quality • Superior Performance

All Master-I joists are warranted to be free of manufacturing defects, and to meet or exceed the design specifications noted for that product.

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.

The APA trademark ensures superior I-joist quality and consistent performance. Each Master-I product will conform to the standards set by APA's quality assurance program.



I-joist Manufacturing Facility

finnforest

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