



MAX-CORE® I-JOIST
COMMERCIAL PRODUCT GUIDE-US

OUR COMPANY

At **IB EWP Inc.** we take pride in providing our customers with premium quality products and services. Our full range of engineered wood products (EWP) are manufactured to provide consistent, high performance floor and roof systems.

Our technical staff consists of highly trained technical experts available to assist with any design or construction question and to provide full support for our design/layout software.

TABLE IBU-EP2

Engineering Properties of IB800 and IB900x Series Depth I-Joists (US Allowable Stress Design)⁽¹⁾

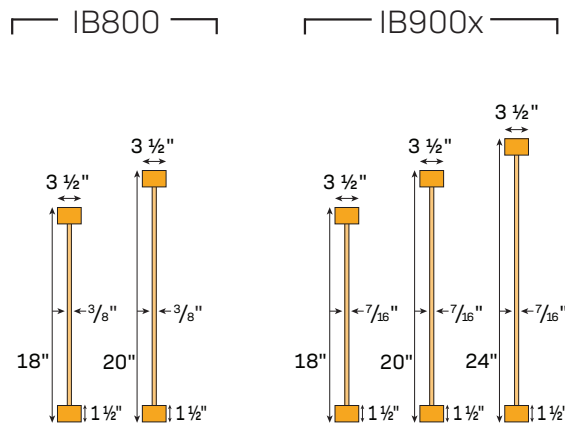


TABLE IBU-MF4

IB800 and IB900x Maximum Floor Spans

40 psf Live Load (3 1/2" bearings with bearing stiffeners)

30 psf Dead Load

Allowable Stress Design (ASD) 100% Load Duration (L/480 live load, L/240 total load deflection criteria)

I-Joist		2 3/32" OSB SUBFLOOR GLUED AND NAILED SPACING OF IB MAX-CORE I-JOIST (o.c.)							
Series	Depth	Simple Span				Multiple Spans			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
IB800	18"	34'-6"	30'-10"	28'-2"	25'-2"	35'-8"	30'-10"	28'-2"	24'-1"
	20"	37'-1"	32'-6"	29'-8"	26'-7"	37'-7"	32'-6"	29'-8"	24'-10"
IB900x	18"	34'-10"	31'-9"	30'-0"	27'-11"	38'-1"	34'-4"	30'-5"	24'-4"
	20"	37'-8"	34'-4"	32'-5"	29'-5"	41'-3"	36'-1"	32'-10"	26'-3"
	24"	43'-1"	39'-4"	35'-11"	32'-2"	45'-5"	39'-4"	35'-7"	28'-5"

TABLE IBU-MF5

IB800 and IB900x Maximum Floor Spans

100 psf Live Load (3 ½" bearings with bearing stiffeners)

20 psf Dead Load

Allowable Stress Design (ASD) 100% Load Duration (L/480 live load, L/240 total load deflection criteria)

I-Joist		2 3/32" OSB SUBFLOOR GLUED AND NAILED SPACING OF IB MAX-CORE I-JOIST (o.c.)							
Series	Depth	Simple Span				Multiple Spans			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
IB800	18"	24'-10"	22'-6"	21'-2"	19'-1"	27'-1"	21'-1"	17'-7"	14'-0"
	20"	26'-9"	24'-3"	22'-8"	20'-3"	28'-8"	21'-8"	18'-1"	14'-5"
IB900x	18"	25'-3"	22'-11"	21'-7"	20'-0"	27'-7"	21'-4"	17'-9"	14'-2"
	20"	27'-4"	24'-10"	23'-4"	21'-8"	29'-10"	22'-11"	19'-1"	15'-3"
	24"	31'-3"	28'-5"	26'-9"	24'-6"	33'-2"	24'-11"	20'-9"	16'-7"

NOTES:

1. Allowable spans are applicable to floor construction. The live load and total load deflection limits are indicated at the top of the span table.
2. Spans are based on partial composite action with glued and nailed subfloor meeting requirements for APA Span-Rated STURD-I-FLOOR conforming to PRP-108, PS 1, PS 2, CSA 0325, or CSA 0437. Construction adhesive shall meet the requirements given in ASTM D3498 or APA Specification AFG-01.
3. Minimum bearing length shall be 3 ½ inch for end bearing and 3 ½ inches for interior bearings. Allowable design spans in the tables are measured from centerline of supports.
4. Bearing stiffeners are required when I-joists are used with the spans given in the tables.
5. These span tables are based on uniform loads. For applications with other than uniformly distributed loads, or other applications beyond the scope of the indicated design criteria, an engineering analysis may be required based on the use of the design properties accepted in the APA PR-L330 and Intertek CRR-0322 evaluation reports. For technical support, contact **IB** or your local **IB** distributor.

TABLE IBU-MF6

IB800 and IB900x Maximum Floor Spans

100 psf Live Load (3 ½" bearings with bearing stiffeners)

30 psf Dead Load

Allowable Stress Design (ASD) 100% Load Duration (L/480 live load, L/240 total load deflection criteria)

I-Joist		2 3/32" OSB SUBFLOOR GLUED AND NAILED SPACING OF IB MAX-CORE I-JOIST (o.c.)							
Series	Depth	Simple Span				Multiple Spans			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
IB800	18"	24'-10"	22'-6"	20'-8"	17'-8"	25'-11"	19'-5"	16'-2"	12'-11"
	20"	26'-9"	23'-10"	21'-9"	19'-6"	26'-9"	20'-0"	16'-8"	13'-4"
IB900x	18"	25'-3"	22'-11"	21'-7"	19'-3"	26'-3"	19'-8"	16'-5"	13'-1"
	20"	27'-4"	24'-10"	23'-4"	20'-7"	28'-3"	21'-2"	17'-8"	14'-1"
	24"	31'-3"	28'-5"	26'-4"	22'-9"	30'-8"	23'-0"	19'-2"	15'-4"

6. Continuous spans given in tables IBU-MF4 thru IBU-MF6 are the longest spans measured between centerline of bearings for a joist with three bearings. The ratio of the shorter span to the longer span must be greater than 40%. For two spans with a ratio between 40% and 80%, provide metal hangers or equivalent to withstand an uplift force at the end of the shorter span. Calculate uplift force at the end of the shorter span when the longer span (only) is loaded with live load.
7. Continuous lateral support must be provided for the top and bottom flange of the I-joist. Provide lateral support at bearings to prevent lateral displacement or rotation. For all other applications, consult **IB**.

FRAMED BY QUALITY — BUILT WITH SUCCESS



OUR WARRANTY

We warrant our products to be free of manufacturer defects in material and workmanship and capable of supporting loads as specified in our product literature for the life of the structure. In the unlikely event you receive a product that has a manufacturer defect, please contact us to have the problem remedied promptly and courteously.

OUR GUARANTEE

IB EWP Inc. manufactures and tests its products to very high quality control standards. We are confident that our products will provide our customers with consistent high performance when handled and installed in accordance with our Installation Guide. We guarantee that our products are capable of supporting loads as specified in our product literature for the life of the structure.

See our website www.ibewp.com for more details.

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