MAX-CORE I-JOIST
PRODUCT GUIDE–CANADA

MAX-CORE®

IB EWP
GROUPE LEBEL

ABOUT GROUPE LEBEL

Family-owned and proudly established in 1956, **Groupe Lebel** is one of Eastern Canada's leading lumber manufacturers, known for delivering quality, reliability, and innovation for nearly seven decades.

Our mission is to transform wood into sustainable, high-performance products while supporting the growth and vitality of our communities. With meticulous quality control at every step, from the forest to the finished product, we ensure excellence you can trust.

From our beginnings in lumber production, we've grown and diversified to offer a wide range of products, including treated lumber and accessories, I-joists, wall paneling, fencing, and more... All crafted with the same commitment to durability and precision.

OUR PRODUCT : MAX-CORE®

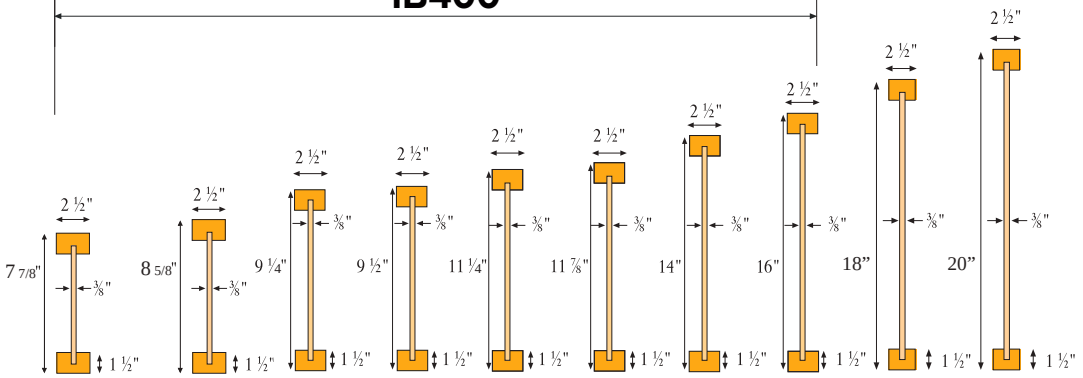
Our I-Joists consist of two wooden flanges and a central web panel, forming a strong and reliable structure. The web panel is made from **Oriented Strand Board (OSB)**, a material created by bonding wood strands into a dense, durable panel. The flanges are crafted from solid wood, available in 2x3 or 2x4 dimensions, and undergo rigorous testing to ensure strength and durability. Our I-Joists are backed by recognized industry certifications, including CCMC-14146-R and APA-PR-L330C, providing confidence in their performance, quality, and code compliance.

Our I-Joists are available in lengths from 8 to 52 feet and depths from 9 1/2 to 24 inches, tailored to meet the needs of your specific project. We offer various sizes and strength grades suitable for both commercial and residential applications. The strength grade is reflected in the series number; lower numbers indicate lower mechanical strength, while higher numbers denote greater strength.

The **IB400** and **IB600** series feature 2x3 flanges, while the **IB700**, **IB800**, and **IB900x** series come with 2x4 flanges, providing flexibility to match your project's requirements.

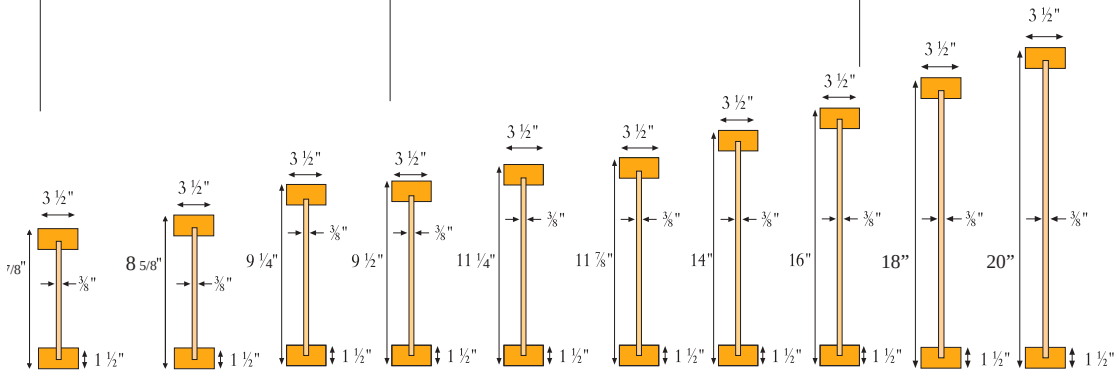
IB600

IB400

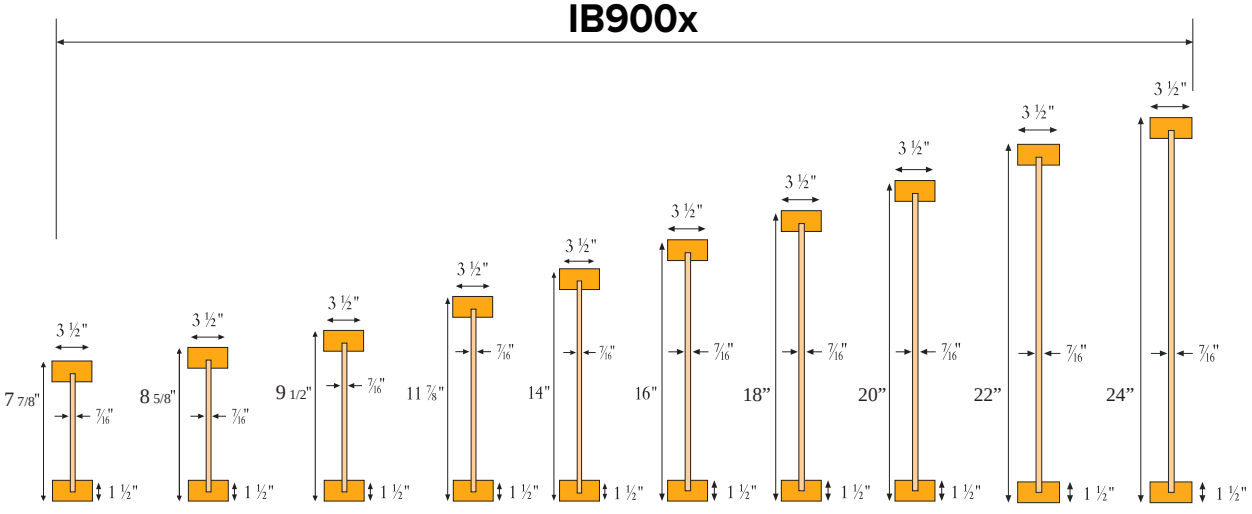


IB800

IB700 (except 11 1/4")



IB900x



MAX-CORE®
SUSTAINABLE CHOICE

Choosing wood products for your home isn't just a construction decision; it's a commitment to sustainability. Wood is one of nature's most renewable materials, storing the carbon it absorbs during growth and keeping it locked away for the entire lifespan of your building.

With **MAX**-CORE **I-Joist**, you're taking that commitment even further. Their lighter weight reduces transportation fuel use, while their efficient design requires less solid wood than traditional dimensional lumber. Every beam maximizes the use of each tree; transforming wood chips and other wood materials into strong, high-performance components that help reduce waste and preserve our forests for generations to come.

SERVICE DESIGN

Many local lumber yards, stocking dealers, and design professionals are familiar with IB EWP Inc. products and can assist with your project needs.

If you require help with your design project, please contact your local distributor. For additional support, feel free to reach out to us directly at sales@ibewp.com.

MAX-CORE®

IB EWP
GROUPE LEBEL

LOAD TABLES

FLOOR FRAMING AND DETAILS

MAX-CORE®

IB400 MAXIMUM FLOOR SPANS

40 psf Unfactored Live Load
25 psf Unfactored Dead Load
Limit States Design (LSD) 100% Load Duration
L/480 Live Load Deflection Criteria
L/240 Total Load Deflection Criteria

Joist Depth	Assembly[1]	Span	19/32" OSB glued and nailed			23/32" OSB glued and nailed				7/8" OSB glued and nailed			
			o.c. spacing			o.c. spacing				o.c. spacing			
			12"	16"	19.2"	12"	16"	19.2"	24"	12"	16"	19.2"	24"
9 1/2"	A	Single	15'-7"	14'-9"	14'-3"	16'-6"	15'-7"	15'-0"	14'-1"	17'-5"	16'-5"	15'-7"	14'-1"
		Continuous	16'-2"	15'-3"	14'-9"	17'-1"	16'-1"	15'-6"	13'-11"	18'-2"	17'-0"	15'-8"	13'-11"
	B	Single	16'-1"	15'-2"	14'-8"	16'-11"	15'-11"	15'-4"	14'-1"	17'-10"	16'-6"	15'-7"	14'-1"
		Continuous	16'-8"	15'-8"	15'-2"	17'-6"	16'-6"	15'-8"	13'-11"	18'-8"	17'-2"	15'-8"	13'-11"
	C	Single	17'-9"	16'-2"	15'-3"	17'-10"	16'-3"	15'-4"	14'-1"	18'-0"	16'-6"	15'-7"	14'-1"
		Continuous	18'-8"	17'-2"	15'-8"	19'-4"	17'-2"	15'-8"	13'-11"	19'-7"	17'-2"	15'-8"	13'-11"
	D	Single	16'-7"	15'-8"	15'-3"	17'-4"	16'-3"	15'-4"	14'-1"	18'-0"	16'-6"	15'-7"	14'-1"
		Continuous	17'-2"	16'-2"	15'-8"	17'-11"	16'-11"	15'-8"	13'-11"	18'-11"	17'-2"	15'-8"	13'-11"
11 7/8"	A	Single	17'-6"	16'-6"	16'-0"	18'-7"	17'-3"	16'-9"	16'-1"	20'-0"	18'-7"	17'-9"	16'-1"
		Continuous	18'-3"	17'-1"	16'-6"	19'-6"	18'-1"	17'-4"	15'-11"	20'-11"	19'-5"	17'-10"	15'-11"
	B	Single	18'-0"	17'-0"	16'-5"	19'-3"	17'-11"	17'-3"	16'-1"	20'-7"	19'-2"	18'-0"	16'-1"
		Continuous	18'-11"	17'-8"	17'-1"	20'-2"	18'-9"	17'-10"	15'-11"	21'-7"	19'-7"	17'-10"	15'-11"
	C	Single	21'-0"	19'-3"	18'-0"	21'-3"	19'-5"	18'-0"	16'-1"	21'-5"	19'-7"	18'-0"	16'-1"
		Continuous	21'-11"	19'-7"	17'-10"	22'-8"	19'-7"	17'-10"	15'-11"	22'-8"	19'-7"	17'-10"	15'-11"
	D	Single	18'-11"	17'-8"	17'-2"	19'-11"	18'-7"	17'-9"	16'-1"	21'-0"	19'-7"	18'-0"	16'-1"
		Continuous	19'-10"	18'-5"	17'-8"	20'-10"	19'-5"	17'-10"	15'-11"	22'-0"	19'-7"	17'-10"	15'-11"
14"	A	Single	19'-4"	17'-11"	17'-4"	20'-8"	19'-2"	18'-4"	17'-6"	22'-2"	20'-7"	19'-7"	17'-8"
		Continuous	20'-3"	18'-10"	18'-1"	21'-9"	20'-1"	19'-2"	17'-0"	23'-3"	21'-6"	19'-7"	17'-0"
	B	Single	20'-1"	18'-8"	17'-11"	21'-5"	19'-11"	19'-0"	17'-8"	22'-10"	21'-4"	19'-9"	17'-8"
		Continuous	21'-1"	19'-7"	18'-9"	22'-6"	20'-11"	19'-7"	17'-0"	24'-0"	21'-6"	19'-7"	17'-0"
	C	Single	23'-8"	21'-8"	19'-9"	24'-2"	21'-8"	19'-9"	17'-8"	24'-4"	21'-8"	19'-9"	17'-8"
		Continuous	24'-8"	21'-6"	19'-7"	24'-11"	21'-6"	19'-7"	17'-0"	24'-11"	21'-6"	19'-7"	17'-0"
	D	Single	21'-3"	19'-9"	18'-11"	22'-3"	20'-9"	19'-9"	17'-8"	23'-5"	21'-8"	19'-9"	17'-8"
		Continuous	22'-2"	20'-8"	19'-7"	23'-4"	21'-6"	19'-7"	17'-0"	24'-6"	21'-6"	19'-7"	17'-0"
16"	A	Single	21'-1"	19'-7"	18'-9"	22'-7"	20'-11"	19'-11"	18'-11"	24'-1"	22'-5"	21'-4"	19'-0"
		Continuous	22'-1"	20'-6"	19'-8"	23'-8"	21'-11"	20'-11"	17'-0"	25'-4"	23'-2"	21'-2"	17'-0"
	B	Single	21'-11"	20'-4"	19'-6"	23'-4"	21'-8"	20'-8"	19'-0"	24'-11"	23'-2"	21'-4"	19'-0"
		Continuous	23'-0"	21'-5"	20'-6"	24'-6"	22'-9"	21'-2"	17'-0"	26'-2"	23'-2"	21'-2"	17'-0"
	C	Single	26'-1"	23'-4"	21'-4"	26'-9"	23'-4"	21'-4"	19'-0"	27'-0"	23'-4"	21'-4"	19'-0"
		Continuous	26'-10"	23'-2"	21'-2"	26'-10"	23'-2"	21'-2"	17'-0"	26'-10"	23'-2"	21'-2"	17'-0"
	D	Single	23'-3"	21'-7"	20'-9"	24'-5"	22'-8"	21'-4"	19'-0"	25'-7"	23'-4"	21'-4"	19'-0"
		Continuous	24'-4"	22'-7"	21'-2"	25'-6"	23'-2"	21'-2"	17'-0"	26'-10"	23'-2"	21'-2"	17'-0"

[1]For additional notes pertaining to this table, see page 16.

MAX-CORE®

IB400 MAXIMUM FLOOR SPANS

40 psf Unfactored Live Load
30 psf Unfactored Dead Load
Limit States Design (LSD) 100% Load Duration
L/480 Live Load Deflection Criteria
L/240 Total Load Deflection Criteria

Joist Depth	Assembly[1]	Span	19/32" OSB glued and nailed			23/32" OSB glued and nailed				7/8" OSB glued and nailed			
			o.c. spacing			o.c. spacing				o.c. spacing			
			12"	16"	19.2"	12"	16"	19.2"	24"	12"	16"	19.2"	24"
9 1/2"	A	Single	15'-7"	14'-9"	14'-3"	16'-6"	15'-7"	15'-0"	13'-8"	17'-5"	16'-5"	15'-3"	13'-8"
		Continuous	16'-2"	15'-3"	14'-9"	17'-1"	16'-1"	15'-1"	13'-6"	18'-2"	16'-7"	15'-1"	13'-6"
	B	Single	16'-1"	15'-2"	14'-8"	16'-11"	15'-11"	15'-3"	13'-8"	17'-10"	16'-6"	15'-3"	13'-8"
		Continuous	16'-8"	15'-8"	15'-1"	17'-6"	16'-6"	15'-1"	13'-6"	18'-8"	16'-7"	15'-1"	13'-6"
	C	Single	17'-9"	16'-2"	15'-3"	17'-10"	16'-3"	15'-3"	13'-8"	18'-0"	16'-6"	15'-3"	13'-8"
		Continuous	18'-8"	16'-7"	15'-1"	19'-3"	16'-7"	15'-1"	13'-6"	19'-3"	16'-7"	15'-1"	13'-6"
	D	Single	16'-7"	15'-8"	15'-3"	17'-4"	16'-3"	15'-3"	13'-8"	18'-0"	16'-6"	15'-3"	13'-8"
		Continuous	17'-2"	16'-2"	15'-5"	17'-11"	16'-7"	15'-1"	13'-6"	18'-11"	16'-7"	15'-1"	13'-6"
11 7/8"	A	Single	17'-6"	16'-6"	16'-0"	18'-7"	17'-5"	16'-9"	15'-7"	20'-0"	18'-6"	17'-5"	15'-7"
		Continuous	18'-3"	17'-1"	16'-6"	19'-6"	18'-1"	17'-3"	15'-5"	20'-11"	19'-10"	17'-3"	15'-5"
	B	Single	18'-0"	17'-0"	16'-5"	19'-3"	17'-11"	17'-3"	15'-7"	20'-7"	19'-2"	17'-5"	15'-7"
		Continuous	18'-11"	17'-8"	17'-1"	20'-2"	18'-9"	17'-3"	15'-5"	21'-7"	19'-10"	17'-3"	15'-5"
	C	Single	21'-0"	19'-1"	17'-5"	21'-3"	19'-1"	17'-5"	15'-7"	21'-5"	19'-9"	17'-5"	15'-7"
		Continuous	21'-11"	18'-11"	17'-3"	21'-11"	18'-11"	17'-3"	15'-5"	21'-11"	19'-10"	17'-3"	15'-5"
	D	Single	18'-11"	17'-8"	17'-2"	19'-11"	18'-7"	17'-5"	15'-7"	21'-0"	19'-7"	17'-5"	15'-7"
		Continuous	19'-10"	18'-5"	17'-3"	20'-10"	18'-11"	17'-3"	15'-5"	21'-11"	19'-10"	17'-3"	15'-5"
14"	A	Single	19'-4"	17'-11"	17'-4"	20'-8"	19'-2"	18'-4"	17'-1"	22'-2"	20'-7"	19'-1"	17'-1"
		Continuous	20'-3"	18'-10"	18'-1"	21'-9"	20'-1"	19'-0"	15'-10"	24'-3"	20'-10"	19'-0"	15'-10"
	B	Single	20'-1"	18'-8"	17'-11"	21'-5"	19'-11"	19'-0"	17'-1"	22'-10"	21'-0"	19'-1"	17'-1"
		Continuous	21'-1"	19'-7"	18'-9"	22'-6"	20'-10"	19'-0"	15'-10"	24'-0"	20'-10"	19'-0"	15'-10"
	C	Single	23'-8"	21'-0"	19'-1"	24'-2"	21'-0"	19'-1"	17'-1"	24'-3"	21'-0"	19'-1"	17'-1"
		Continuous	24'-1"	20'-10"	19'-0"	24'-1"	20'-10"	19'-0"	15'-10"	24'-1"	20'-10"	19'-0"	15'-10"
	D	Single	21'-3"	19'-9"	18'-11"	22'-3"	20'-9"	19'-1"	17'-1"	23'-5"	21'-0"	19'-1"	17'-1"
		Continuous	22'-2"	20'-8"	19'-0"	23'-4"	20'-10"	19'-0"	15'-10"	24'-1"	20'-10"	19'-0"	15'-10"
16"	A	Single	21'-1"	19'-7"	18'-9"	22'-7"	20'-11"	19'-11"	18'-5"	24'-1"	22'-5"	20'-7"	18'-5"
		Continuous	22'-1"	20'-6"	19'-8"	23'-8"	21'-11"	19'-11"	15'-10"	25'-4"	22'-5"	19'-11"	15'-10"
	B	Single	21'-11"	20'-4"	19'-6"	23'-4"	21'-8"	20'-7"	18'-5"	24'-11"	22'-7"	20'-7"	18'-5"
		Continuous	23'-0"	21'-5"	19'-11"	24'-6"	22'-5"	19'-11"	15'-10"	25'-11"	22'-5"	19'-11"	15'-10"
	C	Single	26'-1"	22'-7"	20'-7"	26'-1"	22'-7"	20'-7"	18'-5"	26'-1"	22'-7"	20'-7"	18'-5"
		Continuous	25'-11"	22'-5"	19'-11"	25'-11"	22'-5"	19'-11"	15'-10"	25'-11"	22'-5"	19'-11"	15'-10"
	D	Single	23'-3"	21'-7"	20'-7"	24'-5"	22'-7"	20'-7"	18'-5"	25'-7"	22'-7"	20'-7"	18'-5"
		Continuous	24'-4"	22'-5"	19'-11"	25'-6"	22'-5"	19'-11"	15'-10"	25'-11"	22'-5"	19'-11"	15'-10"

[1]For additional notes pertaining to this table, see page 16.

MAX-CORE®

IB600 MAXIMUM FLOOR SPANS

40 psf
Unfactored Live Load
25 psf
Unfactored Dead Load

Limit States Design (LSD)
100% Load Duration

L/480
Live Load
Deflection Criteria

L/240
Total Load
Deflection Criteria

Joist Depth	Assembly[1]	Span	19/32" OSB glued and nailed			23/32" OSB glued and nailed				7/8" OSB glued and nailed			
			o.c. spacing			o.c. spacing				o.c. spacing			
			12"	16"	19.2"	12"	16"	19.2"	24"	12"	16"	19.2"	24"
9 1/2"	A	Single	16'-1"	15'-2"	14'-8"	17'-0"	16'-0"	15'-5"	14'-9"	17'-11"	16'-11"	16'-3"	15'-2"
		Continuous	16'-8"	15'-8"	15'-2"	17'-7"	16'-7"	15'-11"	14'-7"	18'-10"	17'-6"	16'-10"	14'-7"
	B	Single	16'-6"	15'-7"	15'-0"	17'-4"	16'-4"	15'-9"	15'-0"	18'-5"	17'-3"	16'-4"	15'-2"
		Continuous	17'-1"	16'-1"	15'-7"	18'-1"	17'-0"	16'-4"	14'-7"	19'-4"	18'-0"	17'-3"	14'-7"
	C	Single	18'-5"	17'-0"	16'-0"	18'-9"	17'-1"	16'-2"	15'-0"	18'-11"	17'-3"	16'-4"	15'-2"
		Continuous	19'-3"	17'-11"	17'-4"	20'-1"	18'-6"	17'-6"	14'-7"	20'-7"	18'-9"	17'-8"	14'-7"
	D	Single	17'-1"	16'-2"	15'-7"	17'-9"	16'-10"	16'-2"	15'-0"	18'-9"	17'-3"	16'-4"	15'-2"
		Continuous	17'-7"	16'-8"	16'-1"	18'-6"	17'-4"	16'-9"	14'-7"	19'-7"	18'-3"	17'-6"	14'-7"
11 7/8"	A	Single	18'-1"	17'-0"	16'-5"	19'-4"	17'-11"	17'-3"	16'-7"	20'-8"	19'-3"	18'-4"	17'-5"
		Continuous	18'-11"	17'-7"	17'-0"	20'-3"	18'-9"	17'-11"	17'-0"	21'-8"	20'-2"	19'-2"	17'-0"
	B	Single	18'-8"	17'-5"	16'-10"	19'-11"	18'-6"	17'-8"	17'-0"	21'-3"	19'-9"	18'-10"	17'-10"
		Continuous	19'-7"	18'-2"	17'-6"	20'-11"	19'-5"	18'-6"	17'-0"	22'-4"	20'-9"	19'-10"	17'-0"
	C	Single	21'-8"	20'-2"	19'-1"	22'-4"	20'-5"	19'-3"	17'-10"	22'-7"	20'-7"	19'-5"	18'-1"
		Continuous	22'-8"	21'-1"	20'-2"	23'-6"	21'-11"	20'-10"	17'-0"	24'-6"	22'-4"	21'-0"	17'-0"
	D	Single	19'-8"	18'-3"	17'-7"	20'-8"	19'-2"	18'-4"	17'-6"	21'-9"	20'-3"	19'-4"	18'-1"
		Continuous	20'-6"	19'-1"	18'-3"	21'-7"	20'-1"	19'-2"	17'-0"	22'-9"	21'-3"	20'-3"	17'-0"
14"	A	Single	20'-1"	18'-7"	17'-10"	21'-6"	19'-11"	18'-11"	18'-0"	23'-0"	21'-4"	20'-4"	19'-2"
		Continuous	21'-1"	19'-6"	18'-8"	22'-6"	20'-10"	19'-11"	17'-0"	24'-1"	22'-4"	21'-3"	17'-0"
	B	Single	20'-9"	19'-3"	17'-11"	21'-5"	19'-11"	19'-0"	17'-1"	22'-10"	21'-0"	19'-1"	17'-1"
		Continuous	21'-10"	20'-3"	18'-6"	22'-6"	20'-10"	19'-0"	15'-10"	24'-0"	20'-10"	19'-0"	15'-10"
	C	Single	24'-5"	22'-8"	21'-8"	25'-3"	23'-2"	21'-10"	20'-3"	25'-7"	23'-4"	22'-0"	20'-6"
		Continuous	25'-6"	23'-9"	21'-3"	26'-5"	24'-8"	21'-3"	17'-0"	27'-5"	25'-4"	21'-3"	17'-0"
	D	Single	22'-0"	20'-5"	19'-7"	23'-1"	21'-5"	20'-6"	19'-5"	24'-3"	22'-8"	21'-7"	20'-5"
		Continuous	23'-0"	21'-4"	20'-5"	24'-2"	22'-5"	21'-3"	17'-0"	25'-5"	23'-8"	21'-3"	17'-0"
16"	A	Single	21'-11"	20'-3"	19'-5"	23'-5"	21'-8"	20'-8"	19'-7"	25'-0"	23'-3"	22'-1"	20'-10"
		Continuous	23'-0"	21'-3"	20'-4"	24'-7"	22'-9"	21'-3"	17'-0"	26'-3"	24'-5"	21'-3"	17'-0"
	B	Single	22'-8"	21'-0"	20'-2"	24'-1"	22'-5"	21'-4"	20'-3"	25'-9"	24'-0"	22'-10"	21'-7"
		Continuous	23'-10"	22'-1"	21'-2"	25'-4"	23'-6"	21'-3"	17'-0"	27'-0"	25'-2"	21'-3"	17'-0"
	C	Single	26'-11"	25'-0"	23'-11"	27'-9"	25'-8"	24'-2"	22'-4"	28'-5"	25'-10"	24'-5"	22'-4"
		Continuous	28'-1"	25'-7"	21'-3"	29'-0"	25'-7"	21'-3"	17'-0"	30'-1"	25'-7"	21'-3"	17'-0"
	D	Single	24'-1"	22'-5"	21'-5"	25'-3"	23'-6"	22'-5"	21'-3"	26'-6"	24'-9"	23'-7"	22'-3"
		Continuous	25'-3"	23'-5"	21'-3"	26'-6"	24'-7"	21'-3"	17'-0"	27'-10"	25'-7"	21'-3"	17'-0"
18"	A	Single	23'-7"	21'-10"	20'-11"	23'-5"	23'-4"	22'-3"	21'-1"	27'-0"	25'-0"	23'-10"	22'-5"
		Continuous	24'-9"	22'-11"	21'-3"	26'-6"	24'-6"	21'-3"	17'-0"	28'-4"	25'-7"	21'-3"	17'-0"
	B	Single	24'-5"	22'-8"	21'-9"	26'-0"	24'-2"	23'-1"	21'-10"	27'-9"	25'-10"	24'-8"	23'-3"
		Continuous	25'-8"	23'-10"	21'-3"	27'-4"	25'-5"	21'-3"	17'-0"	29'-2"	25'-7"	21'-3"	17'-0"
	C	Single	29'-3"	27'-3"	26'-0"	30'-2"	28'-1"	26'-6"	23'-10"	31'-0"	28'-4"	26'-8"	23'-10"
		Continuous	30'-7"	25'-7"	21'-3"	31'-6"	25'-7"	21'-3"	17'-0"	32'-11"	25'-7"	21'-3"	17'-0"
	D	Single	26'-2"	24'-3"	23'-3"	27'-4"	25'-5"	24'-3"	23'-0"	28'-8"	26'-9"	25'-6"	23'-10"
		Continuous	27'-4"	25'-5"	21'-3"	28'-8"	25'-7"	21'-3"	17'-0"	30'-1"	25'-7"	21'-3"	17'-0"
20"	A	Single	25'-1"	23'-3"	22'-3"	26'-10"	24'-10"	23'-8"	22'-5"	28'-8"	26'-7"	25'-4"	23'-10"
		Continuous	26'-5"	24'-5"	21'-3"	28'-3"	25'-7"	21'-3"	17'-0"	30'-2"	25'-7"	21'-3"	17'-0"
	B	Single	26'-1"	24'-2"	23'-2"	27'-8"	25'-9"	24'-7"	23'-4"	29'-6"	27'-6"	26'-3"	24'-9"
		Continuous	27'-5"	25'-5"	21'-3"	29'-1"	25'-7"	21'-3"	17'-0"	31'-0"	25'-7"	21'-3"	17'-0"
	C	Single	31'-6"	29'-4"	28'-0"	32'-6"	30'-3"	28'-0"	25'-1"	33'-5"	30'-6"	28'-0"	25'-1"
		Continuous	33'-5"	25'-7"	21'-3"	34'-3"	25'-7"	21'-3"	17'-0"	34'-3"	25'-7"	21'-3"	17'-0"
	D	Single	28'-0"	26'-0"	24'-10"	29'-3"	27'-2"	25'-11"	24'-70"	30'-8"	28'-7"	27'-3"	25'-1"
		Continuous	29'-4"	25'-7"	21'-3"	30'-8"	25'-7"	21'-3"	17'-0"	32'-3"	25'-7"	21'-3"	17'-0"

[1]For additional notes pertaining to this table, see page 16.

MAX-CORE®

IB600 MAXIMUM FLOOR SPANS

40 psf
Unfactored Live Load
30 psf
Unfactored Dead Load

Limit States Design (LSD)
100% Load Duration

L/480
Live Load
Deflection Criteria

L/240
Total Load
Deflection Criteria

Joist Depth	Assembly[1]	Span	19/32" OSB glued and nailed			23/32" OSB glued and nailed				7/8" OSB glued and nailed			
			o.c. spacing			o.c. spacing				o.c. spacing			
			12"	16"	19.2"	12"	16"	19.2"	24"	12"	16"	19.2"	24"
9 1/2"	A	Single	16'-1"	15'-2"	14'-8"	17'-0"	16'-0"	15'-5"	14'-9"	17'-11"	16'-11"	16'-3"	15'-2"
		Continuous	16'-8"	15'-8"	15'-2"	17'-7"	16'-7"	15'-11"	13'-8"	18'-10"	17'-6"	16'-10"	13'-8"
	B	Single	16'-6"	15'-7"	15'-0"	17'-4"	16'-4"	15'-9"	15'-0"	18'-5"	17'-3"	16'-4"	15'-2"
		Continuous	17'-1"	16'-1"	15'-7"	18'-1"	17'-0"	16'-4"	13'-8"	19'-4"	18'-0"	17'-2"	13'-8"
	C	Single	18'-5"	17'-0"	16'-0"	18'-9"	17'-1"	16'-2"	15'-0"	18'-11"	17'-3"	16'-4"	15'-2"
		Continuous	19'-3"	17'-11"	17'-2"	20'-1"	18'-6"	17'-6"	13'-8"	20'-7"	18'-9"	17'-8"	13'-8"
	D	Single	17'-1"	16'-2"	15'-7"	17'-9"	16'-10"	16'-2"	15'-0"	18'-9"	17'-3"	16'-4"	15'-2"
		Continuous	17'-7"	16'-8"	16'-1"	18'-6"	17'-4"	16'-9"	13'-8"	19'-7"	18'-3"	17'-2"	13'-8"
11 7/8"	A	Single	18'-1"	17'-0"	16'-5"	19'-4"	17'-11"	17'-3"	16'-7"	20'-8"	19'-3"	18'-4"	17'-5"
		Continuous	18'-11"	17'-7"	17'-0"	20'-3"	18'-9"	17'-11"	15'-10"	21'-8"	20'-2"	19'-2"	15'-10"
	B	Single	18'-8"	17'-5"	16'-10"	19'-11"	18'-6"	17'-8"	17'-0"	21'-3"	19'-9"	18'-10"	17'-10"
		Continuous	19'-7"	18'-2"	17'-6"	20'-11"	19'-5"	18'-6"	15'-10"	22'-4"	20'-9"	19'-10"	15'-10"
	C	Single	21'-8"	20'-2"	19'-1"	22'-4"	20'-5"	19'-3"	17'-10"	22'-7"	20'-7"	19'-5"	18'-1"
		Continuous	22'-8"	21'-1"	19'-11"	23'-6"	21'-11"	19'-11"	15'-10"	24'-6"	22'-3"	19'-11"	15'-10"
	D	Single	19'-8"	18'-3"	17'-7"	20'-8"	19'-2"	18'-4"	17'-6"	21'-9"	20'-3"	19'-4"	18'-1"
		Continuous	20'-6"	19'-1"	18'-3"	21'-7"	20'-1"	19'-2"	15'-10"	22'-9"	21'-3"	19'-11"	15'-10"
14"	A	Single	20'-1"	18'-7"	17'-10"	21'-6"	19'-11"	18'-11"	18'-0"	23'-0"	21'-4"	20'-4"	19'-2"
		Continuous	21'-1"	19'-6"	18'-8"	22'-6"	20'-10"	19'-11"	15'-10"	24'-1"	22'-4"	19'-11"	15'-10"
	B	Single	20'-9"	19'-3"	18'-6"	22'-1"	20'-6"	19'-7"	18'-7"	23'-7"	21'-0"	21'-0"	19'-9"
		Continuous	21'-10"	20'-3"	19'-5"	23'-3"	21'-7"	19'-11"	15'-10"	24'-10"	22'-0"	19'-11"	15'-10"
	C	Single	24'-5"	22'-8"	21'-8"	25'-3"	23'-2"	21'-10"	20'-1"	25'-7"	23'-1"	22'-0"	20'-1"
		Continuous	25'-6"	23'-9"	19'-11"	26'-5"	23'-11"	19'-11"	15'-10"	27'-5"	23'-11"	19'-11"	15'-10"
	D	Single	22'-0"	20'-5"	19'-7"	23'-1"	21'-5"	20'-6"	19'-5"	24'-3"	22'-8"	21'-7"	20'-1"
		Continuous	23'-0"	21'-4"	19'-11"	24'-2"	22'-5"	19'-11"	15'-10"	25'-5"	23'-8"	19'-11"	15'-10"
16"	A	Single	21'-11"	20'-3"	19'-5"	23'-5"	21'-8"	20'-8"	19'-7"	25'-0"	23'-3"	22'-1"	20'-10"
		Continuous	23'-0"	21'-3"	20'-4"	24'-7"	22'-9"	21'-3"	17'-0"	26'-3"	23'-11"	19'-11"	15'-10"
	B	Single	22'-8"	21'-0"	20'-2"	24'-1"	22'-5"	21'-4"	20'-3"	25'-9"	24'-0"	22'-10"	21'-7"
		Continuous	23'-10"	22'-1"	21'-2"	25'-4"	23'-6"	21'-3"	17'-0"	27'-0"	23'-11"	19'-11"	15'-10"
	C	Single	26'-11"	25'-0"	23'-11"	27'-9"	25'-8"	24'-2"	22'-4"	28'-5"	25'-10"	24'-3"	21'-8"
		Continuous	28'-1"	25'-7"	21'-3"	29'-0"	25'-7"	21'-3"	17'-0"	30'-1"	23'-11"	19'-11"	15'-10"
	D	Single	24'-1"	22'-5"	21'-5"	25'-3"	23'-6"	22'-5"	21'-3"	26'-6"	24'-9"	23'-7"	21'-8"
		Continuous	25'-3"	23'-5"	21'-3"	26'-6"	24'-7"	21'-3"	17'-0"	27'-10"	23'-11"	19'-11"	15'-10"
18"	A	Single	23'-7"	21'-10"	20'-11"	25'-3"	23'-4"	22'-3"	21'-1"	27'-0"	25'-0"	23'-10"	22'-5"
		Continuous	24'-9"	22'-11"	19'-11"	26'-6"	23'-11"	19'-11"	15'-10"	28'-4"	23'-11"	19'-11"	15'-10"
	B	Single	24'-5"	22'-8"	21'-9"	26'-0"	24'-2"	23'-1"	21'-10"	27'-9"	25'-10"	24'-8"	23'-0"
		Continuous	25'-8"	23'-10"	19'-11"	27'-4"	23'-11"	19'-11"	15'-10"	29'-2"	23'-11"	19'-11"	15'-10"
	C	Single	29'-3"	27'-3"	25'-9"	30'-2"	28'-1"	25'-9"	23'-0"	31'-0"	28'-3"	25'-9"	23'-0"
		Continuous	30'-7"	23'-11"	19'-11"	31'-6"	23'-11"	19'-11"	15'-10"	32'-1"	23'-11"	19'-11"	15'-10"
	D	Single	26'-2"	24'-3"	23'-3"	27'-4"	25'-5"	24'-3"	23'-0"	28'-8"	26'-9"	25'-6"	23'-0"
		Continuous	27'-4"	23'-11"	19'-11"	28'-8"	23'-11"	19'-11"	15'-10"	30'-1"	23'-11"	19'-11"	15'-10"
20"	A	Single	25'-1"	23'-3"	22'-3"	26'-10"	24'-10"	23'-8"	22'-5"	28'-8"	26'-7"	25'-4"	23'-10"
		Continuous	26'-5"	23'-11"	19'-11"	28'-3"	23'-11"	19'-11"	15'-10"	30'-2"	23'-11"	19'-11"	15'-10"
	B	Single	26'-1"	24'-2"	23'-2"	27'-8"	25'-9"	24'-7"	23'-4"	29'-6"	27'-6"	26'-3"	24'-3"
		Continuous	27'-5"	23'-11"	19'-11"	29'-1"	23'-11"	19'-11"	15'-10"	31'-0"	23'-11"	19'-11"	15'-10"
	C	Single	31'-6"	29'-4"	27'-1"	32'-6"	29'-9"	27'-1"	24'-3"	33'-5"	29'-9"	27'-1"	24'-3"
		Continuous	32'-1"	23'-11"	19'-11"	32'-1"	23'-11"	19'-11"	15'-10"	32'-1"	23'-11"	19'-11"	15'-10"
	D	Single	28'-0"	26'-0"	24'-10"	29'-3"	27'-2"	25'-11"	24'-3"	30'-8"	28'-7"	27'-1"	24'-3"
		Continuous	29'-4"	23'-11"	19'-11"	30'-8"	23'-11"	19'-11"	15'-10"	32'-1"	23'-11"	19'-11"	15'-10"

[1]For additional notes pertaining to this table, see page 16.

MAX-CORE®

IB700 MAXIMUM FLOOR SPANS

40 psf Unfactored Live Load
25 psf Unfactored Dead Load
Limit States Design (LSD) 100% Load Duration
L/480 Live Load Deflection Criteria
L/240 Total Load Deflection Criteria

Joist Depth	Assembly[1]	Span	19/32" OSB glued and nailed o.c. spacing			23/32" OSB glued and nailed o.c. spacing				7/8" OSB glued and nailed o.c. spacing			
			12"	16"	19.2"	12"	16"	19.2"	24"	12"	16"	19.2"	24"
9 1/2"	A	Single	16'-5"	15'-6"	15'-0"	17'-4"	16'-4"	15'-9"	15'-1"	18'-6"	17'-4"	16'-8"	15'-9"
		Continuous	17'-0"	16'-1"	15'-6"	18'-1"	16'-11"	16'-4"	15'-8"	19'-4"	18'-0"	17'-3"	16'-6"
	B	Single	16'-10"	15'-11"	15'-4"	17'-9"	16'-9"	16'-1"	15'-5"	18'-11"	17'-8"	17'-0"	15'-9"
		Continuous	17'-6"	16'-6"	15'-11"	18'-7"	17'-4"	16'-8"	16'-0"	19'-10"	18'-6"	17'-7"	16'-8"
	C	Single	18'-11"	17'-8"	16'-8"	19'-7"	17'-10"	16'-9"	15'-7"	19'-9"	18'-0"	17'-0"	15'-9"
		Continuous	19'-9"	18'-5"	17'-8"	20'-7"	19'-3"	18'-2"	16'-8"	21'-5"	19'-6"	18'-4"	16'-8"
	D	Single	17'-5"	16'-6"	15'-11"	18'-3"	17'-2"	16'-7"	15'-7"	19'-3"	18'-0"	17'-0"	15'-9"
		Continuous	18'-1"	17'-0"	16'-6"	19'-1"	17'-9"	17'-1"	16'-5"	20'-2"	18'-10"	17'-11"	16'-8"
11 7/8"	A	Single	18'-7"	17'-4"	16'-9"	19'-11"	18'-5"	17'-8"	16'-11"	21'-4"	19'-9"	18'-10"	17'-9"
		Continuous	19'-6"	18'-1"	17'-5"	20'-11"	19'-4"	18'-5"	17'-0"	22'-4"	20'-9"	19'-9"	17'-0"
	B	Single	19'-2"	17'-10"	17'-3"	20'-5"	19'-0"	17'-1"	17'-4"	21'-10"	20'-4"	19'-4"	18'-3"
		Continuous	20'-2"	18'-8"	17'-11"	21'-6"	19'-11"	19'-0"	17'-0"	22'-11"	21'-4"	20'-4"	17'-0"
	C	Single	22'-3"	20'-8"	19'-9"	23'-1"	21'-3"	20'-0"	18'-7"	23'-6"	21'-5"	20'-2"	18'-9"
		Continuous	23'-3"	21'-7"	20'-8"	24'-1"	22'-6"	21'-3"	17'-0"	25'-2"	23'-3"	21'-3"	17'-0"
	D	Single	20'-2"	18'-9"	18'-0"	21'-3"	19'-9"	18'-10"	17'-11"	22'-4"	20'-10"	19'-11"	18'-9"
		Continuous	21'-2"	19'-7"	18'-10"	22'-3"	20'-8"	19'-8"	17'-0"	23'-5"	21'-10"	20'-10"	17'-0"
14"	A	Single	20'-8"	19'-2"	18'-4"	22'-1"	20'-5"	19'-6"	18'-6"	23'-8"	21'-11"	20'-10"	19'-8"
		Continuous	21'-8"	20'-1"	19'-3"	23'-3"	21'-6"	20'-5"	17'-0"	24'-10"	23'-0"	21'-3"	17'-0"
	B	Single	21'-4"	19'-10"	18'-11"	22'-9"	21'-1"	20'-1"	19'-1"	24'-3"	22'-7"	21'-6"	20'-3"
		Continuous	22'-5"	20'-10"	19'-11"	23'-11"	22'-2"	21'-2"	17'-0"	25'-6"	23'-8"	21'-3"	17'-0"
	C	Single	25'-0"	23'-3"	22'-3"	25'-11"	24'-1"	22'-8"	21'-1"	26'-7"	24'-3"	22'-10"	21'-1"
		Continuous	24'-8"	21'-6"	19'-7"	24'-11"	21'-6"	19'-7"	17'-0"	24'-11"	21'-6"	19'-7"	17'-0"
	D	Single	22'-7"	21'-0"	20'-1"	23'-9"	22'-0"	21'-0"	20'-0"	24'-11"	23'-3"	22'-2"	20'-11"
		Continuous	23'-8"	21'-11"	21'-0"	24'-10"	23'-1"	21'-3"	17'-0"	26'-2"	24'-4"	21'-3"	17'-0"
16"	A	Single	22'-6"	20'-10"	19'-11"	24'-1"	22'-3"	21'-2"	20'-1"	25'-9"	23'-10"	22'-8"	21'-5"
		Continuous	23'-8"	21'-10"	20'-11"	23'-8"	21'-11"	20'-11"	17'-0"	27'-0"	25'-1"	21'-3"	17'-0"
	B	Single	23'-3"	21'-7"	20'-8"	23'-4"	21'-8"	20'-8"	19'-0"	26'-5"	24'-7"	23'-5"	22'-1"
		Continuous	24'-5"	22'-8"	21'-3"	24'-6"	22'-9"	21'-2"	17'-0"	27'-9"	25'-7"	21'-3"	17'-0"
	C	Single	27'-6"	25'-7"	24'-5"	26'-9"	23'-4"	21'-4"	19'-0"	29'-5"	26'-10"	25'-4"	22'-8"
		Continuous	28'-9"	25'-7"	21'-3"	26'-10"	23'-2"	21'-2"	17'-0"	30'-10"	25'-7"	21'-3"	17'-0"
	D	Single	24'-9"	23'-0"	22'-0"	24'-5"	22'-8"	21'-4"	19'-0"	27'-3"	25'-5"	24'-3"	22'-8"
		Continuous	25'-11"	24'-0"	21'-3"	25'-6"	23'-2"	21'-2"	17'-0"	28'-7"	25'-7"	21'-3"	17'-0"

[1]For additional notes pertaining to this table, see page 16.

MAX-CORE®

IB700 MAXIMUM FLOOR SPANS

40 psf Unfactored Live Load
30 psf Unfactored Dead Load
Limit States Design (LSD) 100% Load Duration
L/480 Live Load Deflection Criteria
L/240 Total Load Deflection Criteria

Joist Depth	Assembly[1]	Span	19/32" OSB glued and nailed			23/32" OSB glued and nailed				7/8" OSB glued and nailed			
			o.c. spacing			o.c. spacing				o.c. spacing			
			12"	16"	19.2"	12"	16"	19.2"	24"	12"	16"	19.2"	24"
9 1/2"	A	Single	16'-5"	15'-6"	15'-0"	17'-4"	16'-4"	15'-9"	15'-1"	18'-6"	17'-4"	16'-8"	15'-9"
		Continuous	17'-0"	16'-1"	15'-6"	18'-1"	16'-11"	16'-4"	15'-8"	19'-4"	18'-0"	17'-3"	15'-10"
	B	Single	16'-10"	15'-11"	15'-4"	17'-9"	16'-9"	16'-1"	15'-5"	18'-11"	17'-8"	17'-0"	15'-9"
		Continuous	17'-6"	16'-6"	15'-11"	18'-7"	17'-4"	16'-8"	15'-10"	19'-10"	18'-6"	17'-7"	15'-10"
	C	Single	18'-11"	17'-8"	16'-8"	19'-7"	17'-10"	16'-9"	15'-7"	19'-9"	18'-0"	17'-0"	15'-9"
		Continuous	19'-9"	18'-5"	17'-8"	20'-7"	19'-3"	18'-1"	15'-10"	21'-5"	19'-6"	18'-1"	15'-10"
	D	Single	17'-5"	16'-6"	15'-11"	18'-3"	17'-2"	16'-7"	15'-7"	19'-3"	18'-0"	17'-0"	15'-9"
		Continuous	18'-1"	17'-0"	16'-6"	19'-1"	17'-9"	17'-1"	15'-10"	20'-2"	18'-10"	17'-11"	15'-10"
11 7/8"	A	Single	18'-7"	17'-4"	16'-9"	19'-11"	18'-5"	17'-8"	16'-11"	21'-4"	19'-9"	18'-10"	17'-9"
		Continuous	19'-6"	18'-1"	17'-5"	20'-11"	19'-4"	18'-5"	15'-10"	22'-4"	20'-9"	19'-9"	15'-10"
	B	Single	19'-2"	17'-10"	17'-3"	20'-5"	19'-0"	18'-1"	17'-4"	21'-10"	20'-4"	19'-4"	18'-3"
		Continuous	20'-2"	18'-8"	17'-11"	21'-6"	19'-11"	19'-0"	15'-10"	22'-11"	21'-4"	19'-11"	15'-10"
	C	Single	22'-3"	20'-8"	19'-9"	23'-1"	21'-3"	20'-0"	18'-6"	23'-6"	21'-5"	20'-2"	18'-6"
		Continuous	23'-3"	21'-7"	19'-11"	24'-1"	22'-6"	19'-11"	15'-10"	25'-2"	22'-7"	19'-11"	15'-10"
	D	Single	20'-2"	18'-9"	18'-0"	21'-3"	19'-9"	18'-10"	17'-11"	22'-4"	20'-10"	19'-11"	18'-6"
		Continuous	21'-2"	19'-7"	18'-10"	22'-3"	20'-8"	19'-8"	15'-10"	23'-5"	21'-10"	19'-11"	15'-10"
14"	A	Single	20'-8"	19'-2"	18'-4"	22'-1"	20'-5"	19'-6"	18'-6"	23'-8"	21'-11"	20'-10"	19'-8"
		Continuous	21'-8"	20'-1"	19'-3"	23'-3"	21'-6"	19'-11"	15'-10"	24'-10"	23'-0"	19'-11"	15'-10"
	B	Single	21'-4"	19'-10"	18'-11"	22'-9"	21'-1"	20'-1"	19'-1"	24'-3"	22'-7"	21'-6"	20'-3"
		Continuous	22'-5"	20'-10"	19'-11"	23'-11"	22'-2"	19'-11"	15'-10"	25'-6"	23'-8"	19'-11"	15'-10"
	C	Single	25'-0"	23'-3"	22'-3"	25'-11"	24'-1"	22'-8"	20'-4"	26'-7"	24'-3"	22'-9"	20'-4"
		Continuous	26'-2"	23'-11"	19'-11"	27'-1"	23'-11"	19'-11"	15'-10"	28'-1"	23'-11"	19'-11"	15'-10"
	D	Single	22'-7"	21'-0"	20'-1"	23'-9"	22'-0"	21'-0"	20'-0"	24'-11"	23'-3"	22'-2"	20'-4"
		Continuous	23'-8"	21'-11"	19'-11"	24'-10"	23'-1"	19'-11"	15'-10"	26'-2"	23'-11"	19'-11"	15'-10"
16"	A	Single	22'-6"	20'-10"	19'-11"	24'-1"	22'-3"	21'-2"	20'-1"	25'-9"	23'-10"	22'-8"	21'-5"
		Continuous	23'-8"	21'-10"	19'-11"	25'-3"	23'-4"	19'-11"	15'-10"	27'-0"	23'-11"	19'-11"	15'-10"
	B	Single	23'-3"	21'-7"	20'-8"	24'-9"	22'-11"	21'-11"	20'-9"	26'-5"	24'-7"	23'-5"	21'-11"
		Continuous	24'-5"	22'-8"	19'-11"	26'-0"	23'-11"	19'-11"	15'-10"	27'-9"	23'-11"	19'-11"	15'-10"
	C	Single	27'-6"	25'-7"	24'-5"	28'-5"	26'-6"	24'-7"	21'-11"	29'-5"	26'-10"	24'-7"	21'-11"
		Continuous	28'-9"	23'-11"	19'-11"	29'-9"	23'-11"	19'-11"	15'-10"	30'-10"	23'-11"	19'-11"	15'-10"
	D	Single	24'-9"	23'-0"	22'-0"	25'-11"	24'-1"	23'-0"	21'-10"	27'-3"	25'-5"	24'-3"	21'-11"
		Continuous	25'-11"	23'-11"	19'-11"	27'-2"	23'-11"	19'-11"	15'-10"	28'-7"	23'-11"	19'-11"	15'-10"

[1]For additional notes pertaining to this table, see page 16.

MAX-CORE®

IB800 MAXIMUM FLOOR SPANS

40 psf
Unfactored Live Load
25 psf
Unfactored Dead Load

Limit States Design (LSD)
100% Load Duration

L/480
Live Load
Deflection Criteria

L/240
Total Load
Deflection Criteria

Joist Depth	Assembly[1]	Span	19/32" OSB glued and nailed			23/32" OSB glued and nailed				7/8" OSB glued and nailed			
			o.c. spacing			o.c. spacing				o.c. spacing			
			12"	16"	19.2"	12"	16"	19.2"	24"	12"	16"	19.2"	24"
9 1/2"	A	Single	17'-0"	16'-0"	15'-5"	17'-11"	16'-10"	16'-3"	15'-7"	19'-3"	17'-10"	17'-2"	16'-5"
		Continuous	17'-7"	16'-7"	16'-0"	18'-10"	17'-6"	16'-10"	16'-2"	20'-2"	18'-8"	17'-9"	16'-9"
	B	Single	17'-5"	16'-4"	15'-10"	18'-5"	17'-3"	16'-7"	15'-11"	19'-8"	18'-3"	17'-6"	16'-8"
		Continuous	18'-1"	17'-0"	16'-5"	19'-4"	17'-10"	17'-2"	16'-6"	20'-7"	19'-2"	18'-3"	16'-9"
	C	Single	19'-8"	18'-3"	17'-7"	20'-5"	18'-10"	17'-9"	16'-5"	20'-10"	19'-0"	17'-11"	16'-8"
		Continuous	20'-6"	19'-1"	18'-3"	21'-5"	19'-11"	19'-0"	16'-9"	22'-4"	20'-7"	19'-4"	16'-9"
	D	Single	18'-0"	17'-0"	16'-5"	19'-0"	17'-8"	17'-1"	16'-5"	20'-1"	18'-8"	17'-10"	16'-8"
		Continuous	18'-10"	17'-7"	17'-0"	19'-10"	18'-5"	17'-8"	16'-9"	21'-0"	19'-6"	18'-7"	16'-9"
11 7/8"	A	Single	19'-5"	17'-11"	17'-4"	20'-9"	19'-2"	18'-3"	17'-5"	22'-2"	20'-7"	19'-7"	18'-5"
		Continuous	20'-4"	18'-10"	18'-0"	21'-9"	20'-1"	19'-2"	18'-2"	23'-4"	21'-7"	20'-6"	19'-2"
	B	Single	20'-0"	18'-6"	17'-9"	21'-3"	19'-8"	18'-9"	17'-10"	22'-8"	21'-1"	20'-1"	18'-11"
		Continuous	21'-0"	19'-5"	18'-7"	22'-4"	20'-8"	19'-9"	18'-8"	23'-10"	22'-2"	21'-1"	19'-2"
	C	Single	23'-1"	21'-5"	20'-5"	23'-11"	22'-3"	21'-1"	19'-7"	24'-10"	22'-7"	21'-3"	19'-9"
		Continuous	24'-1"	22'-5"	21'-5"	25'-0"	23'-4"	22'-3"	19'-2"	26'-1"	24'-5"	23'-1"	19'-2"
	D	Single	21'-0"	19'-6"	18'-8"	22'-1"	20'-6"	19'-7"	18'-7"	23'-3"	21'-8"	20'-8"	19'-6"
		Continuous	22'-0"	20'-5"	19'-6"	23'-2"	21'-6"	20'-6"	19'-2"	24'-5"	22'-8"	21'-7"	19'-2"
14"	A	Single	21'-7"	19'-11"	19'-1"	23'-1"	21'-3"	20'-3"	19'-2"	24'-8"	22'-10"	21'-8"	20'-5"
		Continuous	22'-8"	20'-11"	20'-0"	24'-3"	22'-4"	21'-3"	20'-2"	25'-11"	24'-0"	22'-10"	21'-1"
	B	Single	22'-3"	20'-7"	19'-8"	23'-8"	21'-11"	20'-10"	19'-9"	25'-3"	23'-5"	22'-3"	21'-0"
		Continuous	23'-4"	21'-8"	20'-8"	24'-10"	23'-0"	21'-11"	20'-9"	26'-6"	24'-7"	23'-5"	21'-1"
	C	Single	25'-11"	24'-1"	23'-0"	26'-10"	25'-0"	23'-10"	22'-3"	27'-10"	25'-8"	24'-2"	22'-5"
		Continuous	27'-1"	25'-2"	24'-1"	28'-1"	26'-2"	25'-0"	21'-1"	29'-2"	27'-4"	26'-1"	21'-1"
	D	Single	23'-6"	21'-10"	20'-10"	24'-8"	22'-11"	21'-10"	20'-9"	26'-0"	24'-2"	23'-0"	21'-9"
		Continuous	24'-8"	22'-10"	21'-10"	25'-11"	24'-0"	22'-10"	21'-1"	27'-2"	25'-4"	24'-2"	21'-1"
16"	A	Single	23'-6"	21'-8"	20'-9"	25'-1"	23'-2"	22'-1"	20'-10"	26'-10"	24'-10"	23'-7"	22'-3"
		Continuous	24'-8"	22'-10"	21'-9"	26'-5"	24'-4"	23'-2"	21'-1"	28'-2"	26'-1"	24'-10"	21'-1"
	B	Single	24'-3"	22'-5"	21'-5"	25'-9"	23'-10"	22'-9"	21'-6"	27'-5"	25'-6"	24'-3"	22'-10"
		Continuous	25'-6"	23'-7"	22'-6"	27'-1"	25'-1"	23'-11"	21'-1"	28'-10"	26'-10"	25'-6"	21'-1"
	C	Single	28'-7"	26'-6"	25'-3"	29'-5"	27'-6"	26'-2"	24'-8"	30'-6"	28'-4"	26'-9"	24'-8"
		Continuous	29'-10"	27'-8"	26'-5"	30'-10"	28'-9"	26'-6"	21'-1"	32'-0"	29'-11"	26'-6"	21'-1"
	D	Single	25'-9"	23'-10"	22'-10"	27'-0"	25'-1"	23'-11"	22'-8"	28'-4"	26'-5"	25'-2"	23'-9"
		Continuous	27'-0"	25'-0"	23'-11"	28'-4"	26'-3"	25'-0"	21'-1"	29'-9"	27'-8"	26'-4"	21'-1"
18"	A	Single	25'-4"	23'-5"	22'-5"	27'-1"	25'-0"	23'-10"	22'-6"	29'-0"	26'-10"	25'-6"	23'-11"
		Continuous	26'-8"	24'-8"	23'-6"	28'-6"	26'-4"	25'-0"	21'-1"	30'-5"	28'-2"	26'-6"	21'-1"
	B	Single	26'-2"	24'-3"	23'-2"	27'-10"	25'-9"	24'-6"	23'-3"	29'-7"	27'-6"	26'-2"	24'-8"
		Continuous	27'-6"	25'-6"	24'-4"	29'-3"	27'-1"	25'-10"	21'-1"	31'-2"	28'-11"	26'-6"	21'-10"
	C	Single	31'-2"	28'-11"	27'-7"	32'-1"	29'-11"	28'-6"	25'-10"	33'-7"	31'-1"	29'-4"	25'-10"
		Continuous	32'-10"	30'-3"	26'-6"	34'-3"	31'-3"	26'-6"	21'-1"	35'-10"	31'-10"	26'-6"	21'-1"
	D	Single	28'-0"	25'-11"	24'-9"	29'-4"	27'-2"	25'-11"	24'-6"	30'-9"	28'-7"	27'-3"	25'-8"
		Continuous	29'-4"	27'-2"	25'-11"	30'-9"	28'-6"	26'-6"	21'-1"	32'-5"	30'-0"	26'-6"	21'-1"
20"	A	Single	27'-0"	24'-11"	23'-10"	28'-10"	26'-8"	25'-4"	24'-0"	30'-10"	28'-6"	27'-1"	25'-6"
		Continuous	28'-5"	26'-3"	25'-1"	30'-4"	28'-0"	26'-6"	21'-1"	32'-8"	30'-0"	26'-6"	21'-1"
	B	Single	27'-10"	25'-10"	24'-8"	29'-7"	27'-5"	26'-2"	24'-9"	31'-6"	29'-4"	27'-11"	26'-4"
		Continuous	29'-4"	27'-2"	25'-11"	31'-2"	28'-10"	26'-6"	21'-1"	33'-8"	30'-10"	26'-6"	21'-1"
	C	Single	34'-2"	31'-1"	29'-7"	35'-5"	32'-2"	30'-7"	26'-8"	36'-10"	33'-6"	31'-7"	26'-8"
		Continuous	36'-5"	31'-10"	26'-6"	37'-9"	31'-10"	26'-6"	21'-1"	39'-4"	31'-10"	26'-6"	21'-1"
	D	Single	30'-0"	27'-9"	26'-6"	31'-4"	29'-1"	27'-8"	26'-3"	33'-2"	30'-7"	29'-1"	26'-8"
		Continuous	31'-5"	29'-1"	26'-6"	33'-3"	30'-6"	26'-6"	21'-1"	35'-5"	31'-10"	26'-6"	21'-1"

[1]For additional notes pertaining to this table, see page 16.

Joist Depth	Assembly[1]	Span	19/32" OSB glued and nailed			23/32" OSB glued and nailed				7/8" OSB glued and nailed			
			o.c. spacing			o.c. spacing				o.c. spacing			
			12"	16"	19.2"	12"	16"	19.2"	24"	12"	16"	19.2"	24"
9 1/2"	A	Single	17'-0"	16'-0"	15'-5"	17'-11"	16'-10"	16'-3"	15'-7"	19'-3"	17'-10"	17'-2"	16'-5"
		Continuous	17'-7"	16'-7"	16'-0"	18'-10"	17'-6"	16'-10"	15'-8"	20'-2"	18'-8"	17'-9"	15'-8"
	B	Single	17'-5"	16'-4"	15'-10"	18'-5"	17'-3"	16'-7"	15'-11"	19'-8"	18'-3"	17'-6"	16'-8"
		Continuous	18'-1"	17'-0"	16'-5"	19'-4"	17'-10"	17'-2"	15'-8"	20'-7"	19'-2"	18'-3"	15'-8"
	C	Single	19'-8"	18'-3"	17'-7"	20'-5"	18'-10"	17'-9"	16'-5"	20'-10"	19'-0"	17'-11"	16'-8"
		Continuous	20'-6"	19'-1"	18'-3"	21'-5"	19'-11"	19'-0"	15'-8"	22'-4"	20'-7"	19'-4"	15'-8"
	D	Single	18'-0"	17'-0"	16'-5"	19'-0"	17'-8"	17'-1"	16'-5"	20'-1"	18'-8"	17'-10"	16'-8"
		Continuous	18'-10"	17'-7"	17'-0"	19'-10"	18'-5"	17'-8"	15'-8"	21'-0"	19'-6"	18'-7"	15'-8"
11 7/8"	A	Single	19'-5"	17'-11"	17'-4"	20'-9"	19'-2"	18'-3"	17'-5"	22'-2"	20'-7"	19'-7"	18'-5"
		Continuous	20'-4"	18'-10"	18'-0"	21'-9"	20'-1"	19'-2"	17'-11"	23'-4"	21'-7"	20'-6"	17'-11"
	B	Single	20'-0"	18'-6"	17'-9"	21'-3"	19'-8"	18'-9"	17'-10"	22'-8"	21'-1"	20'-1"	18'-11"
		Continuous	21'-0"	19'-5"	18'-7"	22'-4"	20'-8"	19'-9"	17'-11"	23'-10"	22'-2"	21'-1"	17'-11"
	C	Single	23'-1"	21'-5"	20'-5"	23'-11"	22'-3"	21'-1"	19'-7"	24'-10"	22'-7"	21'-3"	19'-9"
		Continuous	24'-1"	22'-5"	21'-5"	25'-0"	23'-4"	22'-3"	17'-11"	26'-1"	24'-5"	22'-5"	17'-11"
	D	Single	21'-0"	19'-6"	18'-8"	22'-1"	20'-6"	19'-7"	18'-7"	23'-3"	21'-8"	20'-8"	19'-6"
		Continuous	22'-0"	20'-5"	19'-6"	23'-2"	21'-6"	20'-6"	17'-11"	24'-5"	22'-8"	21'-7"	17'-11"
14"	A	Single	21'-7"	19'-11"	19'-1"	23'-1"	21'-3"	20'-3"	19'-2"	24'-8"	22'-10"	21'-8"	20'-5"
		Continuous	22'-8"	20'-11"	20'-0"	24'-3"	22'-4"	21'-3"	19'-9"	25'-11"	24'-0"	22'-10"	19'-9"
	B	Single	22'-3"	20'-7"	19'-8"	23'-8"	21'-11"	20'-10"	19'-9"	25'-3"	23'-5"	22'-3"	21'-0"
		Continuous	23'-4"	21'-8"	20'-8"	24'-10"	23'-0"	21'-11"	19'-9"	26'-6"	24'-7"	23'-5"	19'-9"
	C	Single	25'-11"	24'-1"	23'-0"	26'-10"	25'-0"	23'-10"	21'-11"	27'-10"	25'-8"	24'-2"	21'-11"
		Continuous	27'-1"	25'-2"	24'-1"	28'-1"	26'-2"	24'-9"	19'-9"	29'-2"	27'-4"	24'-9"	19'-9"
	D	Single	23'-6"	21'-10"	20'-10"	24'-8"	22'-11"	21'-10"	20'-9"	26'-0"	24'-2"	23'-0"	21'-9"
		Continuous	24'-8"	22'-10"	21'-10"	25'-11"	24'-0"	22'-10"	21'-1"	27'-2"	25'-4"	24'-2"	19'-9"
16"	A	Single	23'-6"	21'-8"	20'-9"	25'-1"	23'-2"	22'-1"	20'-10"	26'-10"	24'-10"	23'-7"	22'-3"
		Continuous	24'-8"	22'-10"	21'-9"	26'-5"	24'-4"	23'-2"	19'-9"	28'-2"	26'-1"	24'-9"	19'-9"
	B	Single	24'-3"	22'-5"	21'-5"	25'-9"	23'-10"	22'-9"	21'-6"	27'-5"	25'-6"	24'-3"	22'-10"
		Continuous	25'-6"	23'-7"	22'-6"	27'-1"	25'-1"	23'-11"	19'-9"	28'-10"	26'-10"	24'-9"	19'-9"
	C	Single	28'-7"	26'-6"	25'-3"	29'-5"	27'-6"	26'-2"	23'-1"	30'-6"	28'-4"	26'-9"	23'-1"
		Continuous	29'-10"	27'-8"	24'-9"	30'-10"	28'-9"	24'-9"	19'-9"	32'-0"	29'-9"	24'-9"	19'-9"
	D	Single	25'-9"	23'-10"	22'-10"	27'-0"	25'-1"	23'-11"	22'-8"	28'-4"	26'-5"	25'-2"	23'-1"
		Continuous	27'-0"	25'-0"	23'-11"	28'-4"	26'-3"	24'-9"	19'-9"	29'-9"	27'-8"	24'-9"	19'-9"
18"	A	Single	25'-4"	23'-5"	22'-5"	27'-1"	25'-0"	23'-10"	22'-6"	29'-0"	26'-10"	25'-6"	23'-11"
		Continuous	26'-8"	24'-8"	23'-6"	28'-6"	26'-4"	24'-9"	19'-9"	30'-5"	28'-2"	24'-9"	19'-9"
	B	Single	26'-2"	24'-3"	23'-2"	27'-10"	25'-9"	24'-6"	23'-3"	29'-7"	27'-6"	26'-2"	24'-2"
		Continuous	27'-6"	25'-6"	24'-4"	29'-3"	27'-1"	24'-9"	19'-9"	31'-2"	28'-11"	24'-9"	19'-9"
	C	Single	31'-2"	28'-11"	27'-7"	32'-1"	29'-11"	28'-6"	24'-2"	33'-7"	31'-1"	29'-4"	24'-2"
		Continuous	32'-10"	29'-9"	24'-9"	34'-3"	29'-9"	24'-9"	19'-9"	35'-10"	29'-9"	24'-9"	19'-9"
	D	Single	28'-0"	25'-11"	24'-9"	29'-4"	27'-2"	25'-11"	24'-2"	30'-9"	28'-7"	27'-3"	24'-2"
		Continuous	29'-4"	27'-2"	24'-9"	30'-9"	28'-6"	24'-9"	19'-9"	32'-5"	29'-9"	24'-9"	19'-9"
20"	A	Single	27'-0"	24'-11"	23'-10"	28'-10"	26'-8"	25'-4"	24'-0"	30'-10"	28'-6"	27'-1"	24'-11"
		Continuous	28'-5"	26'-3"	24'-9"	30'-4"	28'-0"	24'-9"	19'-9"	32'-8"	29'-9"	24'-9"	19'-9"
	B	Single	27'-10"	25'-10"	24'-8"	29'-7"	27'-5"	26'-2"	24'-9"	31'-6"	29'-4"	27'-11"	24'-11"
		Continuous	29'-4"	27'-2"	24'-9"	31'-2"	28'-10"	24'-9"	19'-9"	33'-8"	29'-9"	24'-9"	19'-9"
	C	Single	34'-2"	31'-1"	29'-7"	35'-5"	32'-2"	30'-7"	24'-11"	36'-10"	33'-6"	31'-2"	24'-11"
		Continuous	36'-5"	29'-9"	24'-9"	37'-9"	29'-9"	24'-9"	19'-9"	39'-4"	29'-9"	24'-9"	19'-9"
	D	Single	30'-0"	27'-9"	26'-6"	31'-4"	29'-1"	27'-8"	24'-11"	33'-2"	30'-7"	29'-1"	24'-11"
		Continuous	31'-5"	29'-1"	24'-9"	33'-3"	29'-9"	24'-9"	19'-9"	35'-5"	29'-9"	24'-9"	19'-9"

MAX-CORE®

IB800 MAXIMUM FLOOR SPANS

40 psf
Unfactored Live Load
30 psf
Unfactored Dead Load

Limit States Design (LSD)
100% Load Duration

L/480
Live Load
Deflection Criteria

L/240
Total Load
Deflection Criteria

[1]For additional notes pertaining to this table, see page 16.

MAX-CORE®

LOAD TABLES FLOOR FRAMING NOTES AND LEGEND

NOTES:

Spans listed are the clear distance between supports. Continuous spans are based on the longest span. The shortest span shall not be less than 40% of the longest span.

2. Spans are based on uniform floor loads only, for standard load duration.

3. Spans are based on partial composite action with glued and nailed OSB subfloor conforming to CSA 0325. The span ratings are as follows: 1F20 (19/32" - 15 mm thick), 1F24 (23/32" - 18 mm thick) and 1 F32 (7/8" - 22 mm thick).

4. The live and total load deflection limits are indicated at the top of the table.

5. Spans are based on an end bearing length of at least 1-3/4" and an interior bearing length of at least 3-1/2".

6. The live and dead loads for the spans are indicated at the top of the table.

7. Spans have been designed to meet the Limit States Design, vibration/deflection requirements of the NBCC 2020 Part 9 or Part 4, CSAO86-19, CSAO86-24, and consequently the OBC 2024.

8. Live load specified at the top of the table is considered a short-term load for strength and serviceability.

9. Total deflection (L/180), as defined in CSA O86-24, Clause 5.4.2, including the long-term effect of the dead load and the associated creep factors has been considered in the analysis.

10. Permanent dead load deflection (L/360) has been considered in the analysis as per CSAO86-19, Clause 5.4.3.

11. Web stiffeners are not required for any of the spans in these tables.

12. Web fillers are required for I-Joists seated in hangers that do not laterally support the top flange.

LEGEND:

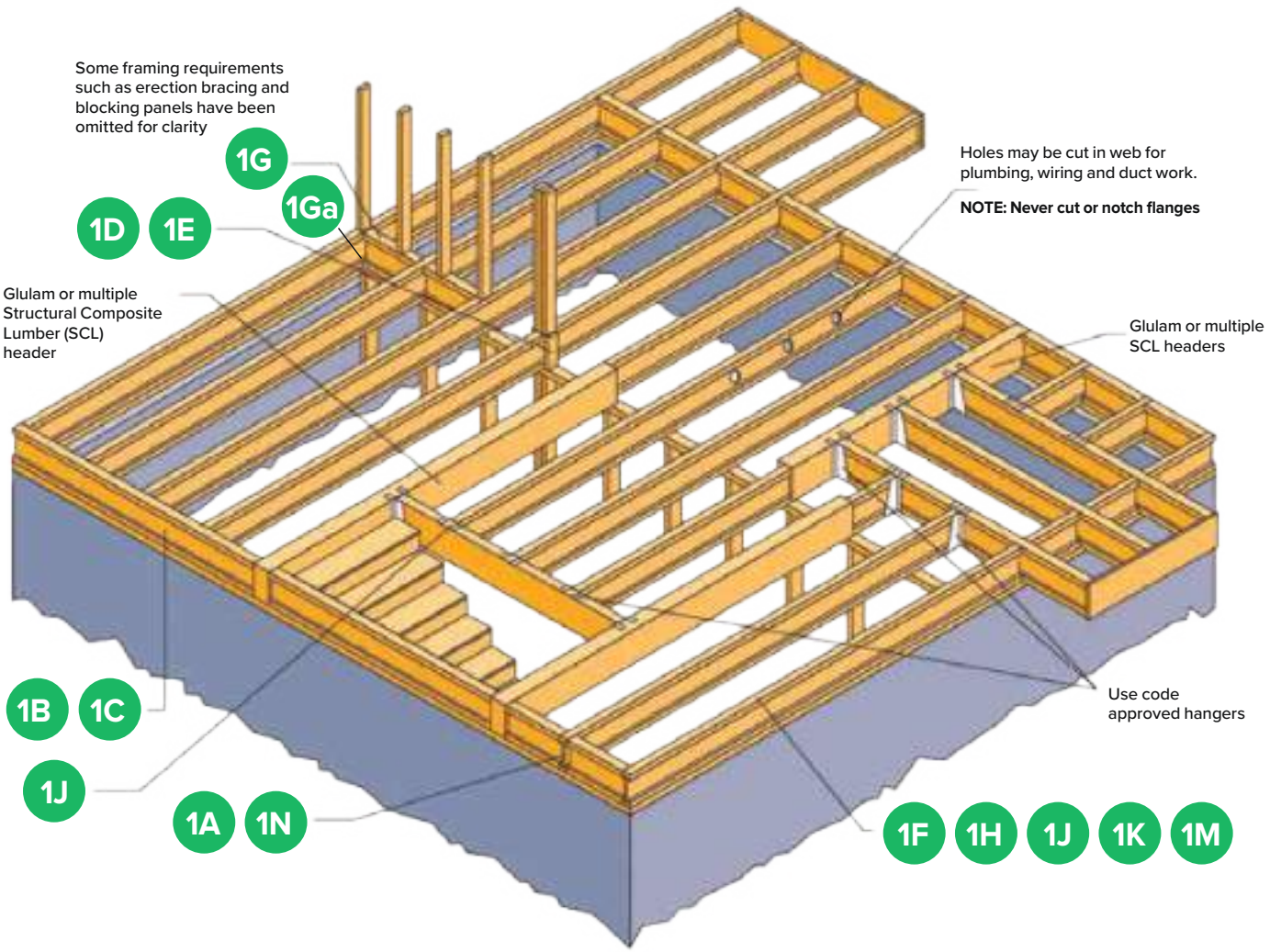
Assembly "A" =
Glued & Nailed subfloor with no additional components added.

Assembly "B" =
Assembly "A" plus 1/2" thick gypsum ceiling applied directly to the bottom flange.

Assembly "C" =
Assembly "B" with an additional row of I-joist blocking at mid-span.

Assembly "D" =
Assembly "A" with an additional row of I-joist blocking at mid-span.

FLOOR FRAMING & INSTALLATION DETAILS



Refer to notes on page 22.

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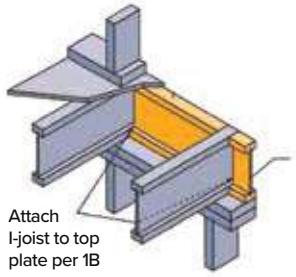
FLOOR FRAMING & INSTALLATION DETAILS (Continued)

All nails shown in the details are common nails or approved equivalent unless otherwise noted. Larger diameter nails in the narrow face of flanges should be used with caution (read installation note 15b on page 9). 8d box nail is 0.113 inch diameter by 2½ inches long. 8d common nail is 0.131 inch diameter by 2 ½ inches long. 10d box nail is 0.128 inch diameter by 3 inches long. 10d common nail is 0.148 inch diameter by 3 inches long. Individual components not shown to scale for clarity.

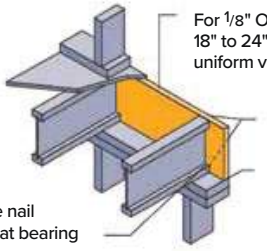
1A



Attach I-joist to top plate per 1B

8d nails@ 6" o.c. (when used for lateral shear transfer, nail to bearing plate withsame nailing as required for decking)

1B



For 1/8" OSB rimboard 18" to 24" deep, maximum uniform vertical load = 3200 plf

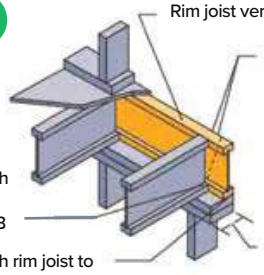
One-8d nail at top and bottom flange

Attached rimboard to top plate using 8d box toenails @ 6" o.c.

One-8d face nail at eachside at bearing

To avoid splitting flange, start nails at least 1 ½" from end of I-joist. Nails may be driven at an angle to avoid splitting of bearing plate.

1C



Rim joist vertical load transfer

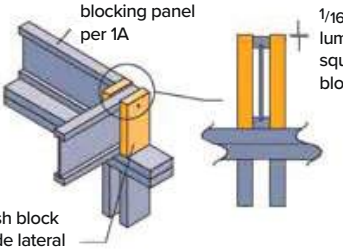
Attach rim joist to floor joist with one nail at top and bottom. Nail must provide 1 inch minimum penetration into floor joist. Toenails may be used.

Attach I-joist per 1B

Minimum 1 ¾" bearing required

Attach rim joist to top plate per 1A

1D

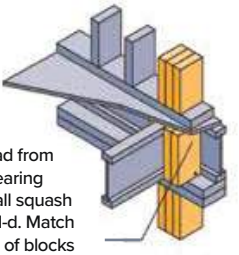


Rim joist blocking panel per 1A

1/16" for lumber squash blocks

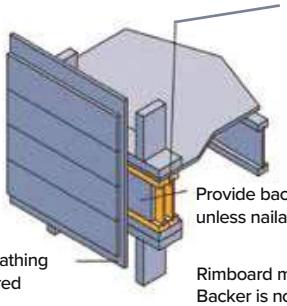
Squash block Provide lateral bracing per 1A, 1B, or 1C

1E



Transfer load from above to bearing below. Install squash blocks per 1-d. Match bearing are of blocks below to post above

1F



For single I-joist, see detail 1A for capacities. For double I-joists the table capacities may be doubled. Filler block is not required with this detail

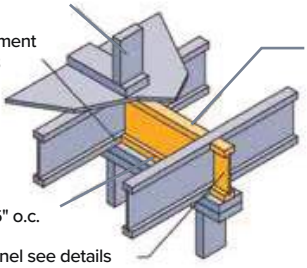
Provide backer for siding attachment unless nailable sheathing is used

Wall sheathing as required

Rimboard may be used in lieu of I-joists. Backer is not required when rimboard is used.

1G

Load bearing wall above shall align vertically with the wall below. Other conditions such as offset walls are not covered by this detail



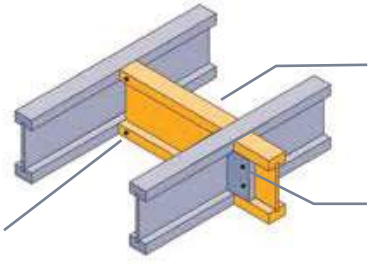
Joist attachment per detail IB

Blocking required over all interior supports under load-bearing walls or when floor joists are not continuous over support. In high seismic areas blocking is required at all intermediate supports.

8d nails at 6" o.c.

Blocking panel see details 1A and 1B

1Ga



I-joist blocking at mid-span (or at other locations between supports) may be used to reduce vibration

Two possible methods of attachment are shown. Other fastening methods are possible.

Method 1:
One-8d nail toenailed at each side of top and bottom flange at each end of I-joist blocking

Method 2:
Minimum two-10d nails face nailed thru OSB web of I-joist blocking into 2x6 vertical block and clinched (preferred) or nailed thru 2x6 and clinched on back face of OSB web of I-joist blocking. In addition, nail thru OSB web of full-length joist into 2x6 with minimum two-10d nails. Repeat at opposite end of I-joist blocking

CAUTION: Effective toenailing may be difficult to achieve due to limited access of pneumatic nailers. The builder shall evaluate installation for potential of nail squeak

NOTES:

1. **I-joists do not always need blocking (bridging) between supports. I-joist blocking must be installed only where specified by the building designer.**
2. **Use of construction adhesive is recommended at wood-to-wood contact areas.**
3. **It shall be permitted to offset (stagger) I-joist blocking up to the flange width. Nailing thru the joist flange into the ends of the I-joist blocking is not permitted.**

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FLOOR FRAMING & INSTALLATION DETAILS (Continued)

1H

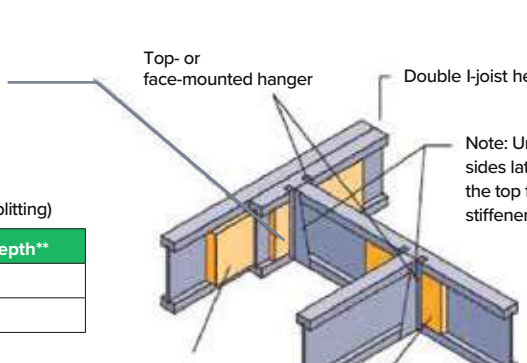
Backer block (use if hanger load exceeds 250 lbs. unfactored load for top-mounted hanger.) Before installing a backer block to a double I-joist, drive three additional 10d nails through the webs and filler block where the backer block will fit. Clinch. Install backer tight to top flange. Use twelve-10d nails, clinched when possible.

Backer blocks (Blocks must be long enough to permit required nailing without splitting)

Flange Width	Material Thickness Required*	Minimum Depth**
2 ½"	1"	5 ½"
3 ½"	1 ½"	7 ¼"

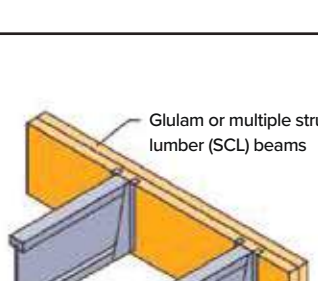
* Minimum grade for backer block material shall be Utility grade SPF (south) or better for solid sawn lumber and Rated Sheathing grade for wood structural panels

** For face-mount hangers use net joist depth minus 3 ¼"



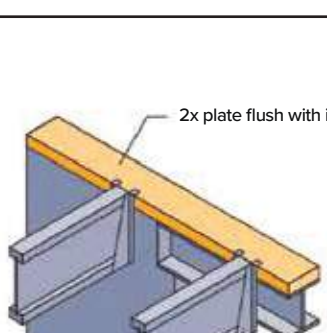
For hanger capacity see hanger manufacturer's recommendations. Verify double I-joist capacity to support concentrated loads.

1J

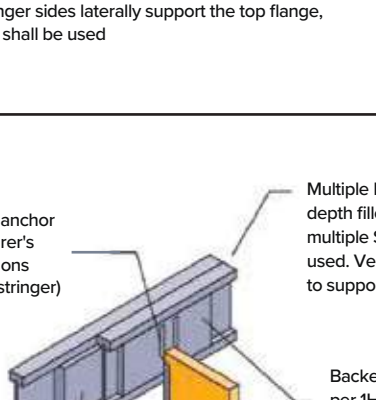


NOTE: Unless hanger sides laterally support the top flange, bearing stiffeners shall be used

1K

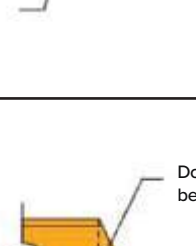


1M



Maximum factored support = 1280 lbs

1N



NOTE: Blocking required at bearing for lateral support, not shown for clarity

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FLOOR INSTALLATION NOTES

01. Before laying out floor system components, verify that **MAX**-CORE **I-Joist** flange widths match hanger widths. If not, contact your supplier.

02. Except for cutting to length, never cut, drill, or notch **MAX**-CORE **I-Joist** flanges.

03. Install **MAX**-CORE **I-Joist** so that top and bottom flanges have true vertical alignment.

04. **MAX**-CORE **I-Joist** must be anchored securely to supports before floor sheathing is attached, and supports for multiple-span joists must be level.

05. Minimum bearing lengths: 1 ½ inches for end bearings and 3 ½ inches for intermediate bearings.

06. When using hangers, seat **MAX**-CORE **I-Joist** firmly in hanger bottoms to minimize settlement.

07. Leave a 1/16 inch gap between the **MAX**-CORE **I-Joist** end and a header.

08. Concentrated loads greater than those that can normally be expected in residential construction should only be applied to the top surface of the top flange. Normal concentrated loads include track lighting fixtures, audio equipment and security cameras. Never suspend unusual or heavy loads from the **MAX**-CORE **I-Joist**'s bottom flange. Whenever possible, suspend all concentrated loads from the top of the I-joist. Or, attach the load to blocking that has been securely fastened to the I-joist webs.

09. Never install **MAX**-CORE **I-Joist** where they will be permanently exposed to weather, or where they will remain in direct contact with concrete or masonry.

10. Restrain ends of floor joists to prevent rollover. Use rimboard (or equivalent rim joists) or **MAX**-CORE **I-Joist** blocking panels.

11. For **MAX**-CORE **I-Joist** installed over and beneath bearing walls, use full depth blocking panels, rimboard, or squash blocks (cripple members) to transfer gravity loads through the floor system to the wall or foundation below.

12. Due to shrinkage, common framing lumber set on edge may never be used as blocking or rimboards. **MAX**-CORE **I-Joist** blocking panels or other engineered wood products – such as rimboard – must be cut to fit between the I-joists, and an I-joist compatible depth selected.

13. Provide permanent lateral support of the bottom flange of all **MAX**-CORE **I-Joist** at interior supports of multiple-span joists. Similarly, support the bottom flange of all cantilevered I-joists at the end support next to the cantilever extension. In the completed structure, the gypsum wallboard ceiling provides this lateral support. Until the final finished ceiling is applied, temporary bracing or struts must be used.

14. If square-edge panels are used, edges must be supported between **MAX**-CORE **I-Joist** with 2 x 4 blocking. Glue panels to blocking to minimize squeaks. Blocking is not required under structural finish flooring, such as wood strip flooring, or if a separate underlayment layer is installed.

15. Nail spacing:

a. Space nails installed to the flange's top face in accordance with the applicable building code requirements or approved building plans.

b. If nails must be installed into the sides of flanges, spacing shall not be closer than 3 inches o.c. for 8d common nails, and 4 inches o.c. for 10d common nails.

WEB HOLE GUIDELINES

MAX-CORE **I-Joist** top and bottom flanges must never be cut, notched, or otherwise modified.

Holes in web should be cut with a sharp saw.
For rectangular holes, avoid over-cutting the corners, as this can cause unnecessary stress concentrations.
Slightly rounding the corners is recommended.
Starting the rectangular hole by drilling a 1" diameter hole in each of the four corners and then making the cuts between the holes is another good method to minimize damage to the I-joist.

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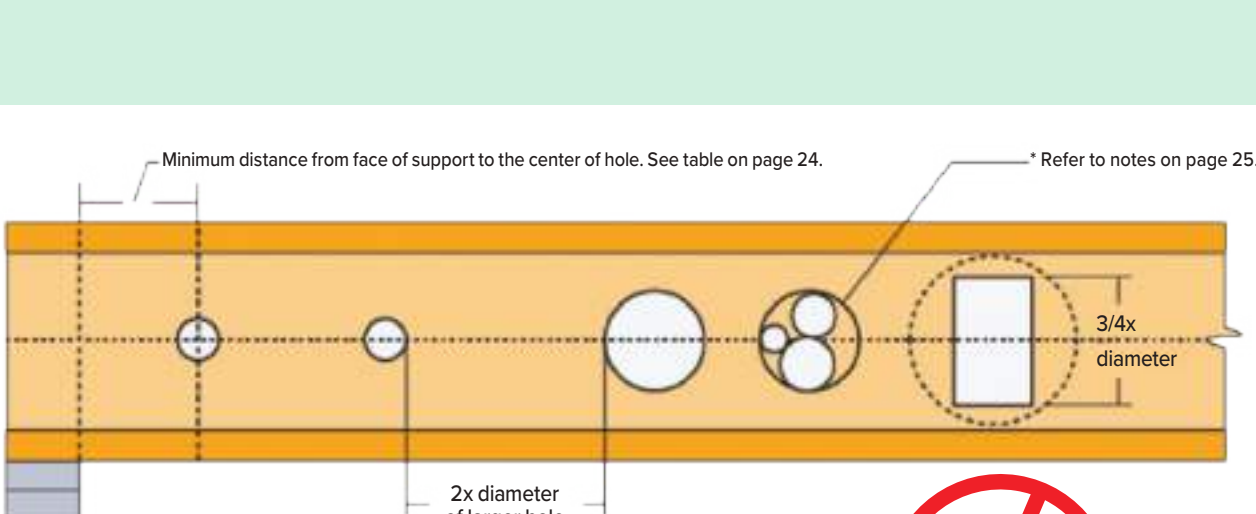

MAX-CORE®

ALLOWABLE WEB HOLE SIZES AND LOCATIONS

40 psf Live Load
30 psf Dead Load
IB400, IB600, IB700, IB800, IB900x
Minimum distance from inside face of any support to center of webhole (Simple or Multi-span)

Series	Depth (in)	Clear Span (ft)	Distance from End/Interior Support Round Hole Diameter							
			2"	3"	4"	5"	6"	8"	10"	12"
IB400 IB600 IB700 IB800	9.5	10	0'-7"	0'-8"	0'-9"	1'-10"	2'-11"			
		12	0'-7"	1'-0"	2'-1"	3'-2"	4'-4"			
		14	1'-3"	2'-4"	3'-5"	4'-7"	5'-9"			
		16	2'-6"	3'-8"	4'-9"	5'-11"	7'-3"			
		18	3'-10"	5'-0"	6'-2"	7'-5"	8'-8"			
		20	5'-3"	6'-5"	7'-7"	8'-10"				
		22	6'-7"	7'-10"	9'-0"	10'-4"				
IB400 IB600 IB700 IB800	11 7/8	12	0'-7"	0'-8"	0'-8"	0'-9"	1'-8"	3'-11"		
		14	0'-7"	0'-8"	0'-10"	1'-11"	3'-0"	5'-4"		
		16	0'-7"	1'-1"	2'-2"	3'-3"	4'-4"	6'-9"		
		18	1'-4"	2'-5"	3'-6"	4'-7"	5'-9"	8'-2"		
		20	2'-8"	3'-9"	4'-10"	5'-11"	7'-2"	9'-8"		
		22	3'-11"	5'-1"	6'-2"	7'-4"	8'-7"			
		24	5'-4"	6'-5"	7'-7"	8'-9"	10'-0"			
IB400 IB600 IB700 IB800	14	14	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	2'-10"	5'-2"	
		16	0'-7"	0'-8"	0'-8"	0'-11"	2'-0"	4'-2"	6'-7"	
		18	0'-7"	0'-8"	1'-2"	2'-3"	3'-4"	5'-7"	8'-0"	
		20	0'-7"	1'-5"	2'-6"	3'-7"	4'-8"	7'-0"	9'-6"	
		22	1'-8"	2'-9"	3'-9"	4'-11"	6'-0"	8'-5"	10'-11"	
		24	3'-0"	4'-0"	5'-1"	6'-3"	7'-5"	9'-10"		
		26	4'-3"	5'-4"	6'-6"	7'-7"	8'-10"	11'-3"		
IB400 IB600 IB700 IB800	16	16	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	2'-0"	4'-2"	6'-7"
		18	0'-7"	0'-8"	0'-8"	0'-9"	1'-2"	3'-4"	5'-7"	8'-0"
		20	0'-7"	0'-8"	0'-8"	1'-5"	2'-6"	4'-8"	7'-0"	9'-6"
		22	0'-7"	0'-8"	1'-8"	2'-9"	3'-9"	6'-0"	8'-5"	10'-11"
		24	0'-10"	1'-11"	2'-11"	4'-0"	5'-1"	7'-5"	9'-10"	
		26	2'-2"	3'-2"	4'-3"	5'-4"	6'-6"	8'-10"	11'-3"	
		28	3'-5"	4'-6"	5'-7"	6'-9"	7'-10"	10'-3"	12'-9"	

Series	Depth (in)	Clear Span (ft)	Distance from End/Interior Support Round Hole Diameter							
			2"	3"	4"	5"	6"	8"	10"	12"
IB900x	9.5	10	0'-7"	0'-8"	0'-8"	0'-9"	1'-10"			
		12	0'-7"	0'-8"	0'-8"	1'-8"	3'-2"			
		14	0'-7"	0'-8"	1'-6"	3'-0"	4'-7"			
		16	0'-7"	1'-4"	2'-10"	4'-4"	6'-0"			
		18	1'-3"	2'-8"	4'-2"	5'-9"	7'-5"			
		20	2'-6"	4'-0"	5'-6"	7'-2"	8'-10"			
		22	3'-10"	5'-4"	6'-11"	8'-7"	10'-4"			
IB900x	11 7/8	12	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	2'-11"		
		14	0'-7"	0'-8"	0'-8"	0'-9"	1'-4"	4'-3"		
		16	0'-7"	0'-8"	0'-8"	1'-3"	2'-8"	5'-8"		
		18	0'-7"	0'-8"	1'-2"	2'-6"	4'-0"	7'-1"		
		20	0'-7"	1'-0"	2'-5"	3'-10"	5'-4"	8'-6"		
		22	0'-11"	2'-4"	3'-9"	5'-2"	6'-9"	9'-11"		
		24	2'-2"	3'-7"	5'-1"	6'-7"	8'-1"	11'-5"		
IB900x	14	14	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	1'-9"	4'-6"	
		16	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	3'-1"	5'-11"	
		18	0'-7"	0'-8"	0'-8"	0'-9"	1'-9"	4'-5"	7'-4"	
		20	0'-7"	0'-8"	0'-8"	1'-9"	3'-0"	5'-10"	8'-10"	
		22	0'-7"	0'-8"	1'-8"	3'-0"	4'-4"	7'-2"	10'-3"	
		24	0'-7"	1'-8"	3'-0"	4'-4"	5'-8"	8'-7"	11'-9"	
		26	1'-8"	2'-11"	4'-3"	5'-8"	7'-1"	10'-0"		
IB900x	16	16	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-11"	3'-6"	6'-3"
		18	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	2'-3"	4'-10"	7'-8"
		20	0'-7"	0'-8"	0'-8"	0'-9"	1'-0"	3'-6"	6'-3"	9'-2"
		22	0'-7"	0'-8"	0'-8"	1'-0"	2'-3"	4'-10"	7'-7"	10'-7"
		24	0'-7"	0'-8"	1'-1"	2'-4"	3'-7"	6'-3"	9'-0"	
		26	0'-7"	1'-1"	2'-4"	3'-7"	4'-11"	7'-7"	10'-5"	
		28	1'-2"	2'-4"	3'-8"	4'-11"	6'-3"	9'-0"	11'-11"	

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WEB HOLE GUIDELINE NOTES

01. Table may be used for I-joist spacing 24 inches on center or less.

02. Hole location distance is measured from inside face of supports to center of hole.

03. Distances in this chart are based on uniformly loaded joists.

04. Joists with web hole location and/or sizes that fall outside of the scope of this table must be analyzed based on the actual hole size, joist spacing, span and loading condition. The I-joist shear capacity at the location of the circular web hole is calculated using the following equation: V (round hole) = Published Shear Value x [(Joist Depth – Hole Diameter) / Joist Depth]. SAF = Span adjustment factor, used as defined below

OPTIONAL:
This table is based on I-joists being used at their maximum span. If the I-joists are placed at less than their full allowable span, the maximum distance from the centerline of the hole to the face of any support (D), as given above may be reduced as follows: D reduced = L actual/SAF x D

WHERE: D reduced = Distance from the inside face of any support to center of hole, reduced for less than maximum span applications (ft). The reduced distance must not be less than 6-inches from the face of support to edge of hole
L actual = The actual measured span distance between the inside faces of supports (ft)
SAF = Span Adjustment Factor given above
D = The minimum distance from the inside face of any support to center of hole given above. If L actual/SAF is greater than 1, use 1 in the above calculation for L actual/SAF

05. I-joist top and bottom flanges must NEVER be cut, notched, or otherwise modified

06. Whenever possible, field-cut holes should be centered on the middle of the web.

07. The maximum size hole that can be cut into an I-joist web shall equal the clear distance between flanges of the I-joist minus ¼ inch.

08. The sides of square holes or longest sides of rectangular holes should not exceed three fourths of the diameter of the maximum round hole permitted at that location.

09. Where more than one hole is necessary, the horizontal distance between adjacent hole edges shall exceed twice the diameter of the largest round or square hole (or twice the length of the longest side of the longest rectangular hole) and each hole must be sized and located in compliance with the requirements of the tables on page 37.

10. A 1½" diameter knockout is not considered a hole, and may be utilized anywhere it occurs and may be ignored for purposes of calculating minimum distances between holes.

11. A single 1½" maximum diameter hole shall be permitted anywhere in a cantilevered section of an I-joist. Holes of greater size may be permitted subject to verification.

12. A single 1½" maximum diameter hole can be located anywhere in the web, including directly adjacent to a larger hole. Multiple 1½" diameter holes in a horizontal row shall be permitted if they meet the requirements of notes 9 or 15 and cover a length of 24 inches or less. Multiple 1½" diameter holes covering a length greater than 24 inches may be permitted subject to verification.

13. For I-joists with more than one span, use the longest span to determine hole locations in either span.

14. All holes shall be cut in a workman-like manner in accordance with the restrictions listed above, and as illustrated in the figure on page 36.

15. A group of round holes at approximately the same location shall be permitted if they meet the requirements for a single round hole circumscribed around them.

16. Refer to IB Design Software for other hole sizes, locations, and joist span conditions.

MAX-CORE®

STORAGE, HANDLING & SAFETY GUIDELINES

To assure optimum performance and safe handling, **MAX**-CORE **I-Joist** must be stored and applied properly. The following guidelines will help protect joists from damage in storage, during shipment, and on the construction site, and protect the installer from jobsite injury.

STORAGE AND HANDLING

1. Store, stack and handle **MAX**-CORE **I-Joist** vertically and level only.
2. Do not store **MAX**-CORE **I-Joist** in direct contact with the ground and / or flatwise.
3. Protect **MAX**-CORE **I-Joist** from weather, and use stickers to separate bundles.
4. When handling **MAX**-CORE **I-Joist** with a crane on the job site ("picking"), take a few simple precautions to prevent damage to the I-joists and injury to your work crew.
   a. Pick I-joists in bundles as shipped by supplier.
   b. Orient the bundles so that the webs of the I-joists are vertical.
   c. Pick the bundles at the 5th points, using a spreader bar if necessary.
5. To further protect **MAX**-CORE **I-Joist** from dirt and weather, do not open bundles until time of installation.
6. Take care not to damage **MAX**-CORE **I-Joist** with forklifts or cranes.
7. Do not twist or apply loads to the **MAX**-CORE **I-Joist** when horizontal.
8. Never use or try to repair a damaged **MAX**-CORE **I-Joist** .

DANGER

Illustration 1

Illustration 2

Illustration 3

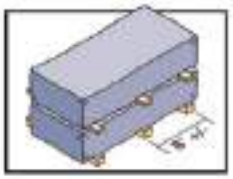

Illustration 4

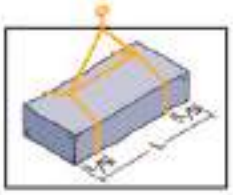

Illustration 5

Illustration 6

Illustration 7

Illustration 8

SAFETY TIPS

1. Do not allow workers to walk on **MAX**-CORE **I-Joist** until joists are fully installed and braced, or serious injuries can result.

2. Never stack building materials over unsheathed **MAX**-CORE **I-Joist**. Stack only over beams or walls.

3. **MAX**-CORE **I-Joist** are not stable until completely installed, and will not carry any load until fully braced and sheathed.

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OUR COMPANY

At **IB EWP** Inc we take pride in providing our customers with premium quality products and services. 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.

PERFORMANCE STATEMENT

IB EWP produces and tests **MAX**-CORE **I-Joists** in accordance with rigorous quality control standards. When properly stored, handled, installed, and used in accordance with **IB EWP** Installation Guides and applicable building codes, our products are designed to provide consistent and reliable structural performance.

MAX-CORE **I-Joists** are engineered to support design loads as specified in **IB EWP** product literature for their intended use within the structure.

LIMITED WARRANTY

IB EWP Inc. warrants that **MAX**-CORE **I-Joists** shall be free from manufacturing defects in material and workmanship at the time of delivery. This warranty applies if the products are stored, handled, installed, and used in accordance with **IB EWP Inc.** installation guide-lines and applicable standards. In the unlikely event that a **MAX**-CORE **I-Joists** is found to have a manufacturing defect, please contact us at sales@ibewp.com.

Engineered wood products

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