IB800 Maximum Floor Spans 40 psf Unfactored Live Load 10 psf Unfactored Dead Load Limit States Design (LSD) 100% Load Duration

L/360 live load, L/240 total load deflection criteria

Joist	Floor	Span	19/32" OSB glued and nailed spacing of IB joist (o.c.)					ued and n		7/8" OSB glued and nailed spacing of IB joist (o.c.)				
JUIST		Span	12"	16"	19.2"	12"	16"	19.2"	24"	12"	16"	19.2"	24"	
	А	Single	15'-4"	14'-6"	14'-0"	16'-3"	15'-3"	14'-9"	14'-1"	17'-2"	16'-2"	15'-7"	14'-10"	
	^	Continuous	16'-2"	15'-2"	14'-8"	17'-0"	16'-0"	15'-5"	14'-10"	18'-0"	17'-0"	16'-4"	15'-7"	
7 7/8"	В	Single Continuous	15'-9" 16'-6"	14'-10" 15'-7"	14'-4" 15'-0"	16'-6" 17'-4"	15'-7" 16'-4"	15'-0" 15'-9"	14'-5" 15'-1"	17'-5" 18'-5"	16'-6" 17'-3"	15'-10" 16'-8"	14'-10" 15'-11"	
		Single	17'-3"	16'-4"	15'-9"	17'-10"	16'-11"	16'-1"	14'-10"	18'-8"	17'-3"	16'-1"	14'-10"	
	С	Continuous	18'-1"	17'-1"	16'-6"	18'-10"	17'-8"	17'-1"	16'-5"	19'-9"	18'-6"	17'-9"	16'-7"	
	D	Single	16'-3"	15'-4"	14'-10"	16'-11"	16'-0"	15'-5"	14'-10"	17'-8"	16'-9"	16'-1"	14'-10"	
		Continuous	17'-0"	16'-0"	15'-6"	17'-8" 17'-0"	16'-8"	16'-1"	15'-6"	18'-7"	17'-6"	16'-10"	16'-2"	
	Α	Single Continuous	16'-1" 16'-11"	15'-2" 15'-11"	14'-8" 15'-5"	17'-10"	16'-0" 16'-9"	15'-5" 16'-2"	14'-9" 15'-6"	18'-0" 19'-1"	16'-11" 17'-9"	16'-3" 17'-1"	15'-7" 16'-4"	
0.5/0"		Single	16'-6"	15'-6"	15'-0"	17'-4"	16'-4"	15'-9"	15'-1"	18'-5"	17'-3"	16'-7"	15'-10"	
8 5/8"	В	Continuous	17'-4"	16'-4"	15'-9"	18'-3"	17'-2"	16'-6"	15'-10"	19'-6"	18'-1"	17'-5"	16'-8"	
	С	Single	18'-3"	17'-2"	16'-7"	19'-0"	17'-9"	17'-2"	16'-0"	19'-11"	18'-6"	17'-4"	16'-0"	
		Continuous Single	19'-4" 17'-0"	17'-11" 16'-1"	17'-4" 15'-7"	20'-1" 17'-9"	18'-9" 16'-9"	17'-11" 16'-2"	17'-2" 15'-6"	21'-0" 18'-8"	19'-8" 17'-6"	18'-10" 16'-11"	17'-10" 16'-0"	
	D	Continuous	17'-10"	16'-10"	16'-3"	18'-9"	17'-6"	16'-11"	16'-3"	19'-9"	18'-5"	17'-8"	16'-11"	
	Α	Single	16'-9"	15'-9"	15'-3"	17'-8"	16'-8"	16'-0"	15'-4"	18'-11"	17'-7"	16'-11"	16'-2"	
		Continuous	17'-7"	16'-7"	16'-0"	18'-9"	17'-6"	16'-10"	16'-2"	20'-1"	18'-7"	17'-9"	16'-11"	
9 1/4"	В	Single Continuous	17'-2" 18'-0"	16'-2" 17'-0"	15'-7" 16'-5"	18'-1" 19'-2"	17'-0" 17'-10"	16'-4" 17'-2"	15'-8" 16'-6"	19'-4" 20'-6"	17'-11" 19'-0"	17'-3" 18'-2"	16'-6" 17'-3"	
		Single	19'-3"	17'-11"	17'-4"	20'-1"	18'-8"	17'-10"	17'-0"	21'-0"	19'-7"	18'-5"	17'-0"	
	С	Continuous	20'-4"	18'-11"	18'-1"	21'-3"	19'-9"	18'-10"	17'-11"	22'-2"	20'-9"	19'-10"	18'-9"	
	D	Single	17'-9"	16'-9"	16'-2"	18'-8"	17'-5"	16'-10"	16'-2"	19'-8"	18'-4"	17'-7"	16'-10"	
		Continuous Single	18'-9" 17'-0"	17'-6" 16'-0"	16'-11" 15'-5"	19'-9" 17'-11"	18'-4" 16'-10"	17'-7" 16'-3"	16'-11" 15'-7"	20'-10" 19'-3"	19'-5" 17'-10"	18'-6" 17'-2"	17'-7" 16'-4"	
	Α	Continuous	17'-10"	16'-9"	16'-3"	19'-0"	17'-8"	17'-0"	16'-4"	20'-5"	18'-11"	18'-0"	17'-2"	
9 1/2"	В	Single	17'-5"	16'-4"	15'-10"	18'-5"	17'-2"	16'-7"	15'-11"	19'-8"	18'-3"	17'-6"	16'-8"	
9 1/2	D	Continuous	18'-4"	17'-2"	16'-7"	19'-6"	18'-1"	17'-5"	16'-8"	20'-10"	19'-4"	18'-5"	17'-6"	
	С	Single Continuous	19'-8" 20'-9"	18'-3" 19'-3"	17'-7" 18'-5"	20'-5" 21'-7"	19'-0" 20'-1"	18'-2" 19'-2"	17'-4" 18'-3"	21'-4"	20'-0" 21'-1"	18'-10" 20'-2"	17'-5" 19'-1"	
		Single	18'-0"	17'-0"	16'-5"	19'-0"	17'-8"	17'-1"	16'-5"	20'-0"	18'-8"	17'-10"	17'-0"	
	D	Continuous	19'-1"	17'-9"	17'-2"	20'-1"	18'-8"	17'-10"	17'-2"	21'-2"	19'-9"	18'-10"	17'-10"	
	Α	Single	18'-9"	17'-6"	16'-11" 17'-9"	20'-1"	18'-7"	17'-9"	17'-0"	21'-6"	19'-11"	18'-11" 20'-1"	17'-10"	
		Continuous Single	19'-11" 19'-4"	18'-5" 17'-11"	17-9	21'-4"	19'-8" 19'-1"	18'-9" 18'-2"	17'-10" 17'-4"	22'-0"	21'-1" 20'-5"	19'-5"	18'-11" 18'-4"	
11 1/4"	В	Continuous	20'-6"	19'-0"	18'-2"	21'-10"	20'-3"	19'-3"	18'-3"	23'-4"	21'-8"	20'-7"	19'-5"	
	С	Single	22'-3"	20'-8"	19'-9"	23'-1"	21'-6"	20'-6"	19'-5"	24'-1"	22'-6"	21'-6"	20'-0"	
		Continuous Single	23'-6"	21'-10" 18'-10"	20'-10" 18'-0"	24'-4" 21'-4"	22'-8" 19'-10"	21'-8" 18'-11"	20'-6" 17'-11"	25'-5" 22'-6"	23'-9" 20'-11"	22'-8" 19'-11"	21'-5" 18'-10"	
	D	Continuous	21'-6"	19'-11"	19'-1"	22'-7"	20'-11"	20'-0"	19'-0"	23'-9"	22'-2"	21'-1"	19'-11"	
	Α	Single	19'-5"	17'-11"	17'-4"	20'-9"	19'-2"	18'-3"	17'-5"	22'-2"	20'-7"	19'-6"	18'-5"	
		Continuous	20'-7" 20'-0"	19'-0" 18'-6"	18'-3" 17'-9"	22'-0" 21'-3"	20'-4" 19'-8"	19'-4" 18'-9"	18'-4" 17'-10"	23'-6"	21'-9" 21'-1"	20'-9"	19'-6" 18'-11"	
11 7/8"	В	Single Continuous	21'-2"	19'-8"	18'-10"	22'-7"	20'-11"	19'-11"	18'-11"	24'-1"	22'-4"	21'-3"	20'-1"	
	С	Single	23'-1"	21'-5"	20'-5"	23'-11"	22'-3"	21'-3"	20'-1"	24'-11"	23'-3"	22'-3"	20'-9"	
		Continuous	24'-4"	22'-7"	21'-7"	25'-3"	23'-6"	22'-5"	21'-3"	26'-3"	24'-7"	23'-6"	22'-2"	
	D	Single Continuous	21'-0" 22'-3"	19'-6" 20'-7"	18'-8" 19'-9"	22'-1" 23'-4"	20'-6" 21'-8"	19'-6" 20'-8"	18'-7" 19'-8"	23'-3" 24'-7"	21'-8" 22'-11"	20'-8" 21'-10"	19'-6" 20'-7"	
		Single	21'-7"	19'-11"	19'-1"	23'-0"	21'-3"	20'-3"	19'-2"	24'-8"	22'-10"	21'-8"	20'-5"	
	Α	Continuous	22'-10"	21'-2"	20'-3"	24'-5"	22'-7"	21'-6"	20'-4"	26'-1"	24'-2"	23'-0"	21'-8"	
14"	В	Single Continuous	22'-3" 23'-7"	20'-7" 21'-10"	19'-8" 20'-11"	23'-8" 25'-1"	21'-11"	20'-10" 22'-2"	19'-9" 21'-0"	25'-2" 26'-8"	23'-5" 24'-10"	22'-3" 23'-8"	21'-0"	
		Single	25'-11"	24'-1"	23'-0"	26'-10"	25'-0"	23'-10"	22'-7"	27'-10"	26'-1"	24'-11"	23'-6"	
	С	Continuous	27'-4"	25'-5"	24'-3"	28'-3"	26'-5"	25'-2"	23'-10"	29'-4"	27'-6"	26'-4"	24'-10"	
	D	Single	23'-6"	21'-10"	20'-10"	24'-8"	22'-11"	21'-10"	20'-8"	25'-11"	24'-2"	23'-0"	21'-8"	
		Continuous Single	24'-10"	23'-1" 21'-8"	22'-1"	26'-1" 25'-1"	24'-2" 23'-2"	23'-1" 22'-0"	21'-11"	27'-5" 26'-10"	25'-6" 24'-10"	24'-4" 23'-7"	22'-11" 22'-2"	
	Α	Continuous	24'-11"	23'-0"	22'-0"	26'-7"	24'-7"	23'-4"	22'-1"	28'-5"	26'-3"	25'-0"	23'-6"	
16"	В	Single	24'-3"	22'-5"	21'-5"	25'-9"	23'-10"	22'-8"	21'-6"	27'-5"	25'-6"	24'-3"	22'-10"	
		Continuous Single	25'-8" 28'-6"	23'-9" 26'-6"	22'-9" 25'-3"	27'-3" 29'-5"	25'-3" 27'-5"	24'-1" 26'-2"	22'-10" 24'-9"	29'-1" 30'-6"	27'-0" 28'-7"	25'-9" 27'-4"	24'-3" 25'-9"	
	С	Continuous	30'-1"	27'-11"	26'-8"	31'-0"	28'-11"	27'-7"	26'-2"	32'-3"	30'-2"	28'-10"	26'-11"	
	D	Single	25'-9"	23'-10"	22'-10"	27'-0"	25'-0"	23'-10"	22'-7"	28'-4"	26'-4"	25'-1"	23'-8"	
	U	Continuous	27'-3"	25'-3"	24'-1"	28'-6"	26'-5"	25'-3"	23'-11"	29'-11"	27'-10"	26'-7"	25'-0"	
	Α	Single Continuous	25'-4" 26'-11"	23'-5" 24'-10"	22'-5" 23'-9"	27'-1" 28'-8"	25'-0" 26'-6"	23'-9" 25'-3"	22'-6" 23'-10"	28'-11" 30'-8"	26'-9" 28'-4"	25'-5" 27'-0"	23'-11" 25'-4"	
10"	- г	Single	26'-2"	24'-3"	23'-2"	27'-10"	25'-9"	24'-6"	23'-2"	29'-7"	27'-6"	26'-2"	24'-8"	
18"	В	Continuous	27'-9"	25'-8"	24'-7"	29'-6"	27'-4"	26'-0"	24'-8"	31'-4"	29'-2"	27'-9"	26'-2"	
	С	Single	31'-1" 33'-1"	28'-11"	27'-7" 29'-0"	32'-1" 34'-5"	29'-11" 31'-6"	28'-6" 30'-1"	26'-11" 26'-11"	33'-7" 36'-0"	31'-1" 33'-1"	29'-8" 31'-4"	28'-0"	
	_	Continuous Single	28'-0"	30'-5" 25'-11"	29'-0"	29'-4"	27'-2"	25'-10"	24'-6"	36'-0"	28'-7"	27'-3"	26'-11" 25'-8"	
	D	Continuous	29'-7"	27'-5"	26'-2"	30'-11"	28'-8"	27'-4"	25'-11"	32'-7"	30'-2"	28'-9"	26'-11"	
	Α	Single	27'-0"	24'-11"	23'-10"	28'-10"	26'-7"	25'-4"	23'-11"	30'-9"	28'-6"	27'-1"	25'-5"	
		Continuous Single	28'-8" 27'-10"	26'-5" 25'-10"	25'-3" 24'-8"	30'-7" 29'-7"	28'-2" 27'-5"	26'-10" 26'-1"	25'-4" 24'-9"	32'-10" 31'-6"	30'-2" 29'-3"	28'-8" 27'-11"	26'-11" 26'-3"	
20"	В	Continuous	29'-7"	27'-4"	26'-2"	31'-4"	29'-1"	27'-8"	26'-3"	33'-10"	31'-0"	29'-7"	26'-11"	
	С	Single	34'-2"	31'-1"	29'-7"	35'-4"	32'-2"	30'-7"	28'-11"	36'-10"	33'-10"	31'-10"	30'-0"	
		Continuous	36'-7" 30'-0"	33'-0" 27'-9"	31'-2" 26'-6"	37'-11" 31'-4"	34'-7" 29'-0"	32'-4" 27'-8"	26'-11" 26'-2"	39'-6" 33'-1"	36'-4" 30'-6"	33'-8" 29'-1"	26'-11" 27'-5"	
	D	Single Continuous	31'-8"	29'-3"	28'-0"	33'-5"	30'-8"	29'-2"	26'-11"	35'-7"	32'-4"	30'-9"	26'-11"	
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IB800 Maximum Floor Spans 40 psf Unfactored Live Load 15 psf Unfactored Dead Load Limit States Design (LSD) 100% Load Duration

L/360 live load, L/240 total load deflection criteria

			19/32" OSB glued and nailed				2" OSB gl			7/8" OSB glued and nailed				
Joist	Floor	Span	spacing of IB joist (o.c.)				pacing of I			spacing of IB joist (o.c.)				
		Single	12" 15'-4"	16" 14'-6"	19.2" 14'-0"	12" 16'-3"	16" 15'-3"	19.2" 14'-9"	24" 14'-1"	12" 17'-2"	16" 16'-2"	19.2" 15'-7"	24" 14'-10"	
	Α	Continuous	16'-2"	15'-2"	14'-8"	17'-0"	16'-0"	15'-5"	14'-10"	18'-0"	17'-0"	16'-4"	15'-7"	
7 7/8"	В	Single	15'-9"	14'-10"	14'-4"	16'-6"	15'-7"	15'-0"	14'-5"	17'-5"	16'-6"	15'-10"	14'-10"	
1 1/0		Continuous	16'-6"	15'-7"	15'-0"	17'-4"	16'-4"	15'-9"	15'-1"	18'-5"	17'-3"	16'-8"	15'-11"	
	С	Single	17'-3" 18'-1"	16'-4" 17'-1"	15'-9"	17'-10" 18'-10"	16'-11" 17'-8"	16'-1" 17'-1"	14'-10" 16'-5"	18'-8" 19'-9"	17'-2" 18'-6"	16'-1" 17'-9"	14'-10"	
		Continuous Single	16'-3"	15'-4"	16'-6" 14'-10"	16'-11"	16'-0"	15'-5"	14'-10"	17'-8"	16'-9"	16'-1"	16'-7" 14'-10"	
	D	Continuous	17'-0"	16'-0"	15'-6"	17'-8"	16'-8"	16'-1"	15'-6"	18'-7"	17'-6"	16'-10"	16'-2"	
	Α	Single	16'-1"	15'-2"	14'-8"	17'-0"	16'-0"	15'-5"	14'-9"	18'-0"	16'-11"	16'-3"	15'-7"	
		Continuous	16'-11"	15'-11"	15'-5"	17'-10"	16'-9"	16'-2"	15'-6"	19'-1"	17'-9"	17'-1"	16'-4"	
8 5/8"	В	Single Continuous	16'-6" 17'-4"	15'-6" 16'-4"	15'-0" 15'-9"	17'-4" 18'-3"	16'-4" 17'-2"	15'-9" 16'-6"	15'-1" 15'-10"	18'-5" 19'-6"	17'-3" 18'-1"	16'-7" 17'-5"	15'-10" 16'-8"	
		Single	18'-3"	17'-2"	16'-7"	19'-0"	17'-9"	17'-2"	16'-0"	19'-11"	18'-6"	17'-4"	16'-0"	
	С	Continuous	19'-4"	17'-11"	17'-4"	20'-1"	18'-9"	17'-11"	17'-2"	21'-0"	19'-8"	18'-10"	17'-4"	
	D	Single	17'-0"	16'-1"	15'-7"	17'-9"	16'-9"	16'-2"	15'-6"	18'-8"	17'-6"	16'-11"	16'-0"	
		Continuous Single	17'-10" 16'-9"	16'-10" 15'-9"	16'-3" 15'-3"	18'-9" 17'-8"	17'-6" 16'-8"	16'-11" 16'-0"	16'-3" 15'-4"	19'-9" 18'-11"	18'-5" 17'-7"	17'-8" 16'-11"	16'-11" 16'-2"	
	Α	Continuous	17'-7"	16'-7"	16'-0"	18'-9"	17'-6"	16'-10"	16'-2"	20'-1"	18'-7"	17'-9"	16'-11"	
9 1/4"	В	Single	17'-2"	16'-2"	15'-7"	18'-1"	17'-0"	16'-4"	15'-8"	19'-4"	17'-11"	17'-3"	16'-6"	
9 1/4		Continuous	18'-0"	17'-0"	16'-5"	19'-2"	17'-10"	17'-2"	16'-6"	20'-6"	19'-0"	18'-2"	17'-3"	
	С	Single	19'-3" 20'-4"	17'-11" 18'-11"	17'-4" 18'-1"	20'-1" 21'-3"	18'-8" 19'-9"	17'-10" 18'-10"	17'-0" 17'-11"	21'-0" 22'-2"	19'-7" 20'-9"	18'-5" 19'-10"	17'-0" 18'-5"	
		Continuous Single	17'-9"	16'-9"	16'-2"	18'-8"	19'-9"	16'-10"	16'-11"	19'-8"	18'-4"	19'-10"	16'-10"	
	D	Continuous	18'-9"	17'-6"	16'-11"	19'-9"	18'-4"	17'-7"	16'-11"	20'-10"	19'-5"	18'-6"	17'-7"	
	Α	Single	17'-0"	16'-0"	15'-5"	17'-11"	16'-10"	16'-3"	15'-7"	19'-3"	17'-10"	17'-2"	16'-4"	
]		Continuous	17'-10"	16'-9"	16'-3"	19'-0"	17'-8"	17'-0"	16'-4"	20'-5"	18'-11"	18'-0"	17'-2"	
9 1/2"	В	Single Continuous	17'-5" 18'-4"	16'-4" 17'-2"	15'-10" 16'-7"	18'-5" 19'-6"	17'-2" 18'-1"	16'-7" 17'-5"	15'-11" 16'-8"	19'-8" 20'-10"	18'-3" 19'-4"	17'-6" 18'-5"	16'-8" 17'-6"	
	С	Single	19'-8"	18'-3"	17'-7"	20'-5"	19'-0"	18'-2"	17'-4"	21'-4"	20'-0"	18'-10"	17'-5"	
		Continuous	20'-9"	19'-3"	18'-5"	21'-7"	20'-1"	19'-2"	18'-3"	22'-7"	21'-1"	20'-2"	19'-1"	
	D	Single Continuous	18'-0" 19'-1"	17'-0" 17'-9"	16'-5" 17'-2"	19'-0" 20'-1"	17'-8" 18'-8"	17'-1" 17'-10"	16'-5" 17'-2"	20'-0" 21'-2"	18'-8" 19'-9"	17'-10" 18'-10"	17'-0" 17'-10"	
		Single	18'-9"	17'-9"	16'-11"	20'-1"	18'-7"	17'-10	17'-2"	21'-6"	19'-11"	18'-11"	17'-10"	
	Α	Continuous	19'-11"	18'-5"	17'-9"	21'-4"	19'-8"	18'-9"	17'-10"	22'-9"	21'-1"	20'-1"	18'-11"	
11 1/4"	В	Single	19'-4"	17'-11"	17'-3"	20'-7"	19'-1"	18'-2"	17'-4"	22'-0"	20'-5"	19'-5"	18'-4"	
		Continuous	20'-6" 22'-3"	19'-0" 20'-8"	18'-2" 19'-9"	21'-10"	20'-3" 21'-6"	19'-3" 20'-6"	18'-3" 19'-5"	23'-4"	21'-8" 22'-6"	20'-7" 21'-6"	19'-5" 20'-0"	
	С	Single Continuous	23'-6"	21'-10"	20'-10"	24'-4"	22'-8"	21'-8"	20'-6"	25'-5"	23'-9"	22'-8"	21'-5"	
		Single	20'-4"	18'-10"	18'-0"	21'-4"	19'-10"	18'-11"	17'-11"	22'-6"	20'-11"	19'-11"	18'-10"	
		Continuous	21'-6"	19'-11"	19'-1"	22'-7"	20'-11"	20'-0"	19'-0"	23'-9"	22'-2"	21'-1"	19'-11"	
	Α	Single Continuous	19'-5" 20'-7"	17'-11" 19'-0"	17'-4" 18'-3"	20'-9" 22'-0"	19'-2" 20'-4"	18'-3" 19'-4"	17'-5" 18'-4"	22'-2" 23'-6"	20'-7" 21'-9"	19'-6" 20'-9"	18'-5" 19'-6"	
44.7/0"		Single	20'-0"	18'-6"	17'-9"	21'-3"	19'-8"	18'-9"	17'-10"	22'-8"	21'-1"	20'-1"	18'-11"	
11 7/8"	В	Continuous	21'-2"	19'-8"	18'-10"	22'-7"	20'-11"	19'-11"	18'-11"	24'-1"	22'-4"	21'-3"	20'-1"	
	С	Single	23'-1" 24'-4"	21'-5" 22'-7"	20'-5" 21'-7"	23'-11"	22'-3" 23'-6"	21'-3" 22'-5"	20'-1" 21'-3"	24'-11"	23'-3" 24'-7"	22'-3" 23'-6"	20'-9"	
		Continuous Single	21'-0"	19'-6"	18'-8"	25-3	20'-6"	19'-6"	18'-7"	20-3	24 -7	20'-8"	19'-6"	
	D	Continuous	22'-3"	20'-7"	19'-9"	23'-4"	21'-8"	20'-8"	19'-8"	24'-7"	22'-11"	21'-10"	20'-7"	
	Α	Single	21'-7"	19'-11"	19'-1"	23'-0"	21'-3"	20'-3"	19'-2"	24'-8"	22'-10"	21'-8"	20'-5"	
		Continuous	22'-10" 22'-3"	21'-2"	20'-3"	24'-5" 23'-8"	22'-7"	21'-6"	20'-4" 19'-9"	26'-1" 25'-2"	24'-2"	23'-0" 22'-3"	21'-8"	
14"	В	Single Continuous	22-3	20'-7" 21'-10"	19'-8" 20'-11"	25'-1"	21'-11"	20'-10" 22'-2"	21'-0"	26'-8"	23'-5" 24'-10"	23'-8"	21'-0" 22'-3"	
ĺ	С	Single	25'-11"	24'-1"	23'-0"	26'-10"	25'-0"	23'-10"	22'-7"	27'-10"	26'-1"	24'-11"	23'-6"	
		Continuous	27'-4"	25'-5"	24'-3"	28'-3"	26'-5"	25'-2"	23'-10"	29'-4"	27'-6"	26'-4"	24'-9"	
	D	Single	23'-6" 24'-10"	21'-10" 23'-1"	20'-10" 22'-1"	24'-8" 26'-1"	22'-11" 24'-2"	21'-10" 23'-1"	20'-8" 21'-11"	25'-11" 27'-5"	24'-2" 25'-6"	23'-0" 24'-4"	21'-8" 22'-11"	
		Continuous Single	23'-6"	21'-8"	20'-9"	25'-1"	23'-2"	23'-1"	20'-10"	26'-10"	24'-10"	23'-7"	22'-2"	
	A	Continuous	24'-11"	23'-0"	22'-0"	26'-7"	24'-7"	23'-4"	22'-1"	28'-5"	26'-3"	25'-0"	23'-6"	
16"	В	Single	24'-3"	22'-5"	21'-5"	25'-9"	23'-10"	22'-8"	21'-6"	27'-5"	25'-6"	24'-3"	22'-10"	
		Continuous Single	25'-8" 28'-6"	23'-9" 26'-6"	22'-9" 25'-3"	27'-3" 29'-5"	25'-3" 27'-5"	24'-1" 26'-2"	22'-10" 24'-9"	29'-1" 30'-6"	27'-0" 28'-7"	25'-9" 27'-4"	24'-3" 25'-9"	
	С	Continuous	30'-1"	27'-11"	26'-8"	31'-0"	28'-11"	27'-7"	24'-9"	32'-3"	30'-2"	28'-10"	24'-9"	
	D	Single	25'-9"	23'-10"	22'-10"	27'-0"	25'-0"	23'-10"	22'-7"	28'-4"	26'-4"	25'-1"	23'-8"	
	U	Continuous	27'-3"	25'-3"	24'-1"	28'-6"	26'-5"	25'-3"	23'-11"	29'-11"	27'-10"	26'-7"	24'-9"	
	Α	Single Continuous	25'-4" 26'-11"	23'-5" 24'-10"	22'-5" 23'-9"	27'-1" 28'-8"	25'-0" 26'-6"	23'-9" 25'-3"	22'-6" 23'-10"	28'-11" 30'-8"	26'-9" 28'-4"	25'-5" 27'-0"	23'-11"	
		Single	26'-2"	24-10	23'-9"	27'-10"	25'-9"	25-3	23'-2"	29'-7"	28 -4	26'-2"	24'-8"	
18"	В	Continuous	27'-9"	25'-8"	24'-7"	29'-6"	27'-4"	26'-0"	24'-8"	31'-4"	29'-2"	27'-9"	24'-9"	
	С	Single	31'-1"	28'-11"	27'-7"	32'-1"	29'-11"	28'-6"	26'-11"	33'-7"	31'-1"	29'-8"	28'-0"	
		Continuous Single	33'-1" 28'-0"	30'-5" 25'-11"	29'-0" 24'-9"	34'-5" 29'-4"	31'-6" 27'-2"	30'-1" 25'-10"	24'-9" 24'-6"	36'-0" 30'-8"	33'-1" 28'-7"	30'-11" 27'-3"	24'-9" 25'-8"	
	D	Continuous	29'-7"	27'-5"	26'-2"	30'-11"	28'-8"	27'-4"	24'-9"	32'-7"	30'-2"	28'-9"	24'-9"	
	Α	Single	27'-0"	24'-11"	23'-10"	28'-10"	26'-7"	25'-4"	23'-11"	30'-9"	28'-6"	27'-1"	25'-5"	
]		Continuous	28'-8"	26'-5"	25'-3"	30'-7"	28'-2"	26'-10"	24'-9"	32'-10"	30'-2"	28'-8"	24'-9"	
20"	В	Single Continuous	27'-10" 29'-7"	25'-10" 27'-4"	24'-8" 26'-2"	29'-7" 31'-4"	27'-5" 29'-1"	26'-1" 27'-8"	24'-9" 24'-9"	31'-6" 33'-10"	29'-3" 31'-0"	27'-11" 29'-7"	26'-3" 24'-9"	
ĺ		Single	34'-2"	31'-1"	29'-7"	35'-4"	32'-2"	30'-7"	28'-11"	36'-10"	33'-10"	31'-10"	30'-0"	
	С	Continuous	36'-7"	33'-0"	30'-11"	37'-11"	34'-7"	30'-11"	24'-9"	39'-6"	36'-4"	30'-11"	24'-9"	
	D	Single	30'-0"	27'-9"	26'-6"	31'-4"	29'-0"	27'-8"	26'-2"	33'-1"	30'-6"	29'-1"	27'-5"	
		Continuous	31'-8"	29'-3"	28'-0"	33'-5"	30'-8"	29'-2"	24'-9"	35'-7"	32'-4"	30'-9"	24'-9"	



IB800 Maximum Floor Spans 40 psf Unfactored Live Load 20 psf Unfactored Dead Load Limit States Design (LSD) 100% Load Duration

L/360 live load, L/240 total load deflection criteria

			19/32" OSB glued and nailed				2" OSB gl			7/8" OSB glued and nailed				
Joist	Floor	Span	spacing of IB joist (o.c.)				pacing of I			spacing of IB joist (o.c.)				
		Single	12" 15'-4"	16" 14'-6"	19.2" 14'-0"	12" 16'-3"	16" 15'-3"	19.2" 14'-9"	24" 14'-1"	12" 17'-2"	16" 16'-2"	19.2" 15'-7"	24" 14'-10"	
	Α	Continuous	16'-2"	15'-2"	14'-8"	17'-0"	16'-0"	15'-5"	14'-10"	18'-0"	17'-0"	16'-4"	15'-7"	
7 7/8"	В	Single	15'-9"	14'-10"	14'-4"	16'-6"	15'-7"	15'-0"	14'-5"	17'-5"	16'-6"	15'-10"	14'-10"	
1 1/0		Continuous	16'-6"	15'-7"	15'-0"	17'-4"	16'-4"	15'-9"	15'-1"	18'-5"	17'-3"	16'-8"	15'-11"	
	С	Single	17'-3" 18'-1"	16'-4" 17'-1"	15'-9"	17'-10" 18'-10"	16'-11" 17'-8"	16'-1" 17'-1"	14'-10" 16'-0"	18'-8" 19'-9"	17'-2" 18'-6"	16'-1" 17'-9"	14'-10"	
		Continuous Single	16'-3"	15'-4"	16'-6" 14'-10"	16'-11"	16'-0"	15'-5"	14'-10"	17'-8"	16'-9"	16'-1"	16'-0" 14'-10"	
	D	Continuous	17'-0"	16'-0"	15'-6"	17'-8"	16'-8"	16'-1"	15'-6"	18'-7"	17'-6"	16'-10"	16'-0"	
	Α	Single	16'-1"	15'-2"	14'-8"	17'-0"	16'-0"	15'-5"	14'-9"	18'-0"	16'-11"	16'-3"	15'-7"	
		Continuous	16'-11"	15'-11"	15'-5"	17'-10"	16'-9"	16'-2"	15'-6"	19'-1"	17'-9"	17'-1"	16'-0"	
8 5/8"	В	Single Continuous	16'-6" 17'-4"	15'-6" 16'-4"	15'-0" 15'-9"	17'-4" 18'-3"	16'-4" 17'-2"	15'-9" 16'-6"	15'-1" 15'-10"	18'-5" 19'-6"	17'-3" 18'-1"	16'-7" 17'-5"	15'-10" 16'-0"	
		Single	18'-3"	17'-2"	16'-7"	19'-0"	17'-9"	17'-2"	16'-0"	19'-11"	18'-6"	17'-4"	16'-0"	
	С	Continuous	19'-4"	17'-11"	17'-4"	20'-1"	18'-9"	17'-11"	16'-0"	21'-0"	19'-8"	18'-10"	16'-0"	
	D	Single	17'-0"	16'-1"	15'-7"	17'-9"	16'-9"	16'-2"	15'-6"	18'-8"	17'-6"	16'-11"	16'-0"	
		Continuous Single	17'-10" 16'-9"	16'-10" 15'-9"	16'-3" 15'-3"	18'-9" 17'-8"	17'-6" 16'-8"	16'-11" 16'-0"	16'-0" 15'-4"	19'-9" 18'-11"	18'-5" 17'-7"	17'-8" 16'-11"	16'-0" 16'-2"	
	Α	Continuous	17'-7"	16'-7"	16'-0"	18'-9"	17'-6"	16'-10"	16'-2"	20'-1"	18'-7"	17'-9"	16'-11"	
9 1/4"	В	Single	17'-2"	16'-2"	15'-7"	18'-1"	17'-0"	16'-4"	15'-8"	19'-4"	17'-11"	17'-3"	16'-6"	
9 1/4		Continuous	18'-0"	17'-0"	16'-5"	19'-2"	17'-10"	17'-2"	16'-6"	20'-6"	19'-0"	18'-2"	17'-1"	
	С	Single	19'-3" 20'-4"	17'-11" 18'-11"	17'-4" 18'-1"	20'-1" 21'-3"	18'-8" 19'-9"	17'-10" 18'-10"	17'-0" 17'-1"	21'-0" 22'-2"	19'-7" 20'-9"	18'-5" 19'-10"	17'-0" 17'-1"	
		Continuous Single	17'-9"	18'-11" 16'-9"	18'-1" 16'-2"	18'-8"	19'-9" 17'-5"	18'-10"	17'-1"	19'-8"	18'-4"	19'-10" 17'-7"	16'-10"	
	D	Continuous	18'-9"	17'-6"	16'-11"	19'-9"	18'-4"	17'-7"	16'-11"	20'-10"	19'-5"	18'-6"	17'-1"	
	Α	Single	17'-0"	16'-0"	15'-5"	17'-11"	16'-10"	16'-3"	15'-7"	19'-3"	17'-10"	17'-2"	16'-4"	
]		Continuous	17'-10"	16'-9"	16'-3"	19'-0"	17'-8"	17'-0"	16'-4"	20'-5"	18'-11"	18'-0"	17'-2"	
9 1/2"	В	Single Continuous	17'-5" 18'-4"	16'-4" 17'-2"	15'-10" 16'-7"	18'-5" 19'-6"	17'-2" 18'-1"	16'-7" 17'-5"	15'-11" 16'-8"	19'-8" 20'-10"	18'-3" 19'-4"	17'-6" 18'-5"	16'-8" 17'-6"	
	С	Single	19'-8"	18'-3"	17'-7"	20'-5"	19'-0"	18'-2"	17'-4"	21'-4"	20'-0"	18'-10"	17'-5"	
		Continuous	20'-9"	19'-3"	18'-5"	21'-7"	20'-1"	19'-2"	18'-3"	22'-7"	21'-1"	20'-2"	18'-3"	
	D	Single Continuous	18'-0" 19'-1"	17'-0" 17'-9"	16'-5" 17'-2"	19'-0" 20'-1"	17'-8" 18'-8"	17'-1" 17'-10"	16'-5" 17'-2"	20'-0" 21'-2"	18'-8" 19'-9"	17'-10" 18'-10"	17'-0" 17'-10"	
		Single	18'-9"	17-9	16'-11"	20-1	18'-7"	17-10	17 -2	21'-6"	19'-11"	18'-11"	17-10"	
	Α	Continuous	19'-11"	18'-5"	17'-9"	21'-4"	19'-8"	18'-9"	17'-10"	22'-9"	21'-1"	20'-1"	18'-11"	
11 1/4"	В	Single	19'-4"	17'-11"	17'-3"	20'-7"	19'-1"	18'-2"	17'-4"	22'-0"	20'-5"	19'-5"	18'-4"	
		Continuous	20'-6" 22'-3"	19'-0" 20'-8"	18'-2" 19'-9"	21'-10"	20'-3" 21'-6"	19'-3" 20'-6"	18'-3" 19'-5"	23'-4" 24'-1"	21'-8" 22'-6"	20'-7" 21'-6"	19'-5" 20'-0"	
	С	Single Continuous	23'-6"	21'-10"	20'-10"	24'-4"	22'-8"	21'-8"	20'-6"	25'-5"	23'-9"	22'-8"	20'-9"	
		Single	20'-4"	18'-10"	18'-0"	21'-4"	19'-10"	18'-11"	17'-11"	22'-6"	20'-11"	19'-11"	18'-10"	
		Continuous	21'-6"	19'-11"	19'-1"	22'-7"	20'-11"	20'-0"	19'-0"	23'-9"	22'-2"	21'-1"	19'-11"	
	Α	Single Continuous	19'-5" 20'-7"	17'-11" 19'-0"	17'-4" 18'-3"	20'-9" 22'-0"	19'-2" 20'-4"	18'-3" 19'-4"	17'-5" 18'-4"	22'-2" 23'-6"	20'-7" 21'-9"	19'-6" 20'-9"	18'-5" 19'-6"	
44.7/0"		Single	20'-0"	18'-6"	17'-9"	21'-3"	19'-8"	18'-9"	17'-10"	22'-8"	21'-1"	20'-1"	18'-11"	
11 7/8"	В	Continuous	21'-2"	19'-8"	18'-10"	22'-7"	20'-11"	19'-11"	18'-11"	24'-1"	22'-4"	21'-3"	20'-1"	
	С	Single	23'-1"	21'-5"	20'-5"	23'-11"	22'-3"	21'-3"	20'-1"	24'-11"	23'-3"	22'-3"	20'-9"	
		Continuous Single	24'-4" 21'-0"	22'-7" 19'-6"	21'-7" 18'-8"	25'-3" 22'-1"	23'-6"	22'-5" 19'-6"	20'-10" 18'-7"	26'-3" 23'-3"	24'-7" 21'-8"	23'-6"	20'-10" 19'-6"	
	D	Continuous	22'-3"	20'-7"	19'-9"	23'-4"	21'-8"	20'-8"	19'-8"	24'-7"	22'-11"	21'-10"	20'-7"	
	Α	Single	21'-7"	19'-11"	19'-1"	23'-0"	21'-3"	20'-3"	19'-2"	24'-8"	22'-10"	21'-8"	20'-5"	
		Continuous	22'-10"	21'-2"	20'-3"	24'-5"	22'-7"	21'-6"	20'-4"	26'-1"	24'-2"	23'-0"	21'-8"	
14"	В	Single Continuous	22'-3" 23'-7"	20'-7" 21'-10"	19'-8" 20'-11"	23'-8" 25'-1"	21'-11"	20'-10" 22'-2"	19'-9" 21'-0"	25'-2" 26'-8"	23'-5" 24'-10"	22'-3" 23'-8"	21'-0" 22'-3"	
		Single	25'-11"	24'-1"	23'-0"	26'-10"	25'-0"	23'-10"	22'-7"	27'-10"	26'-1"	24'-11"	23'-6"	
	С	Continuous	27'-4"	25'-5"	24'-3"	28'-3"	26'-5"	25'-2"	22'-11"	29'-4"	27'-6"	26'-4"	22'-11"	
	D	Single	23'-6"	21'-10"	20'-10"	24'-8"	22'-11"	21'-10"	20'-8"	25'-11"	24'-2"	23'-0"	21'-8"	
		Continuous Single	24'-10" 23'-6"	23'-1"	22'-1" 20'-9"	26'-1" 25'-1"	24'-2" 23'-2"	23'-1"	21'-11"	27'-5" 26'-10"	25'-6" 24'-10"	24'-4" 23'-7"	22'-11"	
	Α	Continuous	24'-11"	23'-0"	22'-0"	26'-7"	24'-7"	23'-4"	22'-1"	28'-5"	26'-3"	25'-0"	22'-11"	
16"	В	Single	24'-3"	22'-5"	21'-5"	25'-9"	23'-10"	22'-8"	21'-6"	27'-5"	25'-6"	24'-3"	22'-10"	
		Continuous	25'-8"	23'-9" 26'-6"	22'-9"	27'-3" 29'-5"	25'-3"	24'-1"	22'-10" 24'-9"	29'-1"	27'-0" 28'-7"	25'-9" 27'-4"	22'-11"	
	С	Single Continuous	28'-6" 30'-1"	26'-6"	25'-3" 26'-8"	31'-0"	27'-5" 28'-11"	26'-2" 27'-7"	24'-9"	30'-6" 32'-3"	30'-2"	28'-8"	25'-9" 22'-11"	
		Single	25'-9"	23'-10"	22'-10"	27'-0"	25'-0"	23'-10"	22'-7"	28'-4"	26'-4"	25'-1"	23'-8"	
	D	Continuous	27'-3"	25'-3"	24'-1"	28'-6"	26'-5"	25'-3"	22'-11"	29'-11"	27'-10"	26'-7"	22'-11"	
	Α	Single	25'-4"	23'-5"	22'-5"	27'-1"	25'-0"	23'-9"	22'-6"	28'-11"	26'-9" 28'-4"	25'-5"	23'-11"	
		Continuous Single	26'-11" 26'-2"	24'-10" 24'-3"	23'-9" 23'-2"	28'-8" 27'-10"	26'-6" 25'-9"	25'-3" 24'-6"	22'-11"	30'-8" 29'-7"	28'-4"	27'-0" 26'-2"	22'-11" 24'-8"	
18"	В	Continuous	27'-9"	25'-8"	24'-7"	29'-6"	27'-4"	26'-0"	22'-11"	31'-4"	29'-2"	27'-9"	22'-11"	
	С	Single	31'-1"	28'-11"	27'-7"	32'-1"	29'-11"	28'-6"	26'-11"	33'-7"	31'-1"	29'-8"	27'-7"	
		Continuous Single	33'-1" 28'-0"	30'-5" 25'-11"	28'-8" 24'-9"	34'-5" 29'-4"	31'-6" 27'-2"	28'-8" 25'-10"	22'-11"	36'-0" 30'-8"	33'-1" 28'-7"	28'-8" 27'-3"	22'-11" 25'-8"	
	D	Continuous	28-0	27'-5"	26'-2"	30'-11"	28'-8"	27'-4"	24 -6	30-8	30'-2"	28'-8"	22'-11"	
	Α	Single	27'-0"	24'-11"	23'-10"	28'-10"	26'-7"	25'-4"	23'-11"	30'-9"	28'-6"	27'-1"	25'-5"	
	^	Continuous	28'-8"	26'-5"	25'-3"	30'-7"	28'-2"	26'-10"	22'-11"	32'-10"	30'-2"	28'-8"	22'-11"	
20"	В	Single Continuous	27'-10" 29'-7"	25'-10" 27'-4"	24'-8" 26'-2"	29'-7" 31'-4"	27'-5" 29'-1"	26'-1" 27'-8"	24'-9" 22'-11"	31'-6" 33'-10"	29'-3" 31'-0"	27'-11" 28'-8"	26'-3" 22'-11"	
		Single	34'-2"	31'-1"	29'-7"	35'-4"	32'-2"	30'-7"	28'-5"	36'-10"	33'-10"	31'-10"	28'-5"	
	С	Continuous	36'-7"	33'-0"	28'-8"	37'-11"	34'-5"	28'-8"	22'-11"	39'-6"	34'-5"	28'-8"	22'-11"	
	D	Single	30'-0"	27'-9"	26'-6"	31'-4"	29'-0"	27'-8"	26'-2"	33'-1"	30'-6"	29'-1"	27'-5"	
<u> </u>		Continuous	31'-8"	29'-3"	28'-0"	33'-5"	30'-8"	28'-8"	22'-11"	35'-7"	32'-4"	28'-8"	22'-11"	



IB800 Maximum Floor Spans 40 psf Unfactored Live Load 25 psf Unfactored Dead Load Limit States Design (LSD) 100% Load Duration

L/360 live load, L/240 total load deflection criteria

			19/32" OSB glued and nailed				2" OSB gl			7/8" OSB glued and nailed				
Joist	Floor	Span	spacing of IB joist (o.c.)				pacing of I			spacing of IB joist (o.c.)				
		Single	12" 15'-4"	16" 14'-6"	19.2" 14'-0"	12" 16'-3"	16" 15'-3"	19.2" 14'-9"	24" 14'-1"	12" 17'-2"	16" 16'-2"	19.2" 15'-7"	24" 14'-10"	
	Α	Continuous	16'-2"	15'-2"	14'-8"	17'-0"	16'-0"	15'-5"	14'-10"	18'-0"	17'-0"	16'-4"	14'-11"	
7 7/8"	В	Single	15'-9"	14'-10"	14'-4"	16'-6"	15'-7"	15'-0"	14'-5"	17'-5"	16'-6"	15'-10"	14'-10"	
1 1/0		Continuous	16'-6"	15'-7"	15'-0"	17'-4"	16'-4"	15'-9"	14'-11"	18'-5"	17'-3"	16'-8"	14'-11"	
	С	Single	17'-3" 18'-1"	16'-4" 17'-1"	15'-9"	17'-10" 18'-10"	16'-11" 17'-8"	16'-1" 17'-1"	14'-10" 14'-11"	18'-8" 19'-9"	17'-2" 18'-6"	16'-1" 17'-9"	14'-10" 14'-11"	
		Continuous Single	16'-3"	15'-4"	16'-6" 14'-10"	16'-11"	16'-0"	15'-5"	14-11	17'-8"	16'-9"	16'-1"	14'-10"	
	D	Continuous	17'-0"	16'-0"	15'-6"	17'-8"	16'-8"	16'-1"	14'-11"	18'-7"	17'-6"	16'-10"	14'-11"	
	Α	Single	16'-1"	15'-2"	14'-8"	17'-0"	16'-0"	15'-5"	14'-9"	18'-0"	16'-11"	16'-3"	15'-7"	
		Continuous	16'-11"	15'-11"	15'-5"	17'-10"	16'-9"	16'-2"	14'-11"	19'-1"	17'-9"	17'-1"	14'-11"	
8 5/8"	В	Single Continuous	16'-6" 17'-4"	15'-6" 16'-4"	15'-0" 15'-9"	17'-4" 18'-3"	16'-4" 17'-2"	15'-9" 16'-6"	15'-1" 14'-11"	18'-5" 19'-6"	17'-3" 18'-1"	16'-7" 17'-5"	15'-10" 14'-11"	
		Single	18'-3"	17'-2"	16'-7"	19'-0"	17'-9"	17'-2"	16'-0"	19'-11"	18'-6"	17'-4"	16'-0"	
	С	Continuous	19'-4"	17'-11"	17'-4"	20'-1"	18'-9"	17'-11"	14'-11"	21'-0"	19'-8"	18'-8"	14'-11"	
	D	Single	17'-0"	16'-1"	15'-7"	17'-9"	16'-9"	16'-2"	15'-6"	18'-8"	17'-6"	16'-11"	16'-0"	
		Continuous	17'-10" 16'-9"	16'-10" 15'-9"	16'-3" 15'-3"	18'-9" 17'-8"	17'-6" 16'-8"	16'-11" 16'-0"	14'-11" 15'-4"	19'-9" 18'-11"	18'-5" 17'-7"	17'-8" 16'-11"	14'-11" 16'-2"	
	Α	Single Continuous	17'-7"	16'-7"	16'-0"	18'-9"	17'-6"	16'-10"	15'-10"	20'-1"	18'-7"	17'-9"	15'-10"	
0.4/4"	- Б	Single	17'-2"	16'-2"	15'-7"	18'-1"	17'-0"	16'-4"	15'-8"	19'-4"	17'-11"	17'-3"	16'-6"	
9 1/4"	В	Continuous	18'-0"	17'-0"	16'-5"	19'-2"	17'-10"	17'-2"	15'-10"	20'-6"	19'-0"	18'-2"	15'-10"	
	С	Single	19'-3"	17'-11"	17'-4"	20'-1"	18'-8"	17'-10"	17'-0"	21'-0"	19'-7"	18'-5"	17'-0"	
		Continuous Single	20'-4" 17'-9"	18'-11" 16'-9"	18'-1" 16'-2"	21'-3" 18'-8"	19'-9" 17'-5"	18'-10" 16'-10"	15'-10" 16'-2"	22'-2" 19'-8"	20'-9" 18'-4"	19'-10" 17'-7"	15'-10" 16'-10"	
	D	Continuous	18'-9"	17'-6"	16'-11"	19'-9"	18'-4"	17'-7"	15'-10"	20'-10"	19'-5"	18'-6"	15'-10"	
	Α	Single	17'-0"	16'-0"	15'-5"	17'-11"	16'-10"	16'-3"	15'-7"	19'-3"	17'-10"	17'-2"	16'-4"	
]	Α	Continuous	17'-10"	16'-9"	16'-3"	19'-0"	17'-8"	17'-0"	16'-4"	20'-5"	18'-11"	18'-0"	17'-0"	
9 1/2"	В	Single	17'-5"	16'-4" 17'-2"	15'-10"	18'-5"	17'-2"	16'-7"	15'-11"	19'-8" 20'-10"	18'-3" 19'-4"	17'-6"	16'-8" 17'-0"	
		Continuous Single	18'-4" 19'-8"	17'-2"	16'-7" 17'-7"	19'-6" 20'-5"	18'-1" 19'-0"	17'-5" 18'-2"	16'-8" 17'-4"	21'-4"	20'-0"	18'-5" 18'-10"	17'-0"	
	С	Continuous	20'-9"	19'-3"	18'-5"	21'-7"	20'-1"	19'-2"	17'-0"	22'-7"	21'-1"	20'-2"	17'-0"	
	D	Single	18'-0"	17'-0"	16'-5"	19'-0"	17'-8"	17'-1"	16'-5"	20'-0"	18'-8"	17'-10"	17'-0"	
		Continuous	19'-1"	17'-9"	17'-2"	20'-1"	18'-8"	17'-10"	17'-0"	21'-2"	19'-9"	18'-10"	17'-0"	
	Α	Single Continuous	18'-9" 19'-11"	17'-6" 18'-5"	16'-11" 17'-9"	20'-1" 21'-4"	18'-7" 19'-8"	17'-9" 18'-9"	17'-0" 17'-10"	21'-6" 22'-9"	19'-11" 21'-1"	18'-11" 20'-1"	17'-10" 18'-11"	
44.4/4"		Single	19'-4"	17'-11"	17'-3"	20'-7"	19'-1"	18'-2"	17'-4"	22'-0"	20'-5"	19'-5"	18'-4"	
11 1/4"	В	Continuous	20'-6"	19'-0"	18'-2"	21'-10"	20'-3"	19'-3"	18'-3"	23'-4"	21'-8"	20'-7"	19'-4"	
	С	Single	22'-3"	20'-8"	19'-9"	23'-1"	21'-6"	20'-6"	19'-5"	24'-1"	22'-6"	21'-6"	20'-0"	
		Continuous Single	23'-6" 20'-4"	21'-10" 18'-10"	20'-10" 18'-0"	24'-4" 21'-4"	22'-8" 19'-10"	21'-8" 18'-11"	19'-4" 17'-11"	25'-5" 22'-6"	23'-9" 20'-11"	22'-8" 19'-11"	19'-4" 18'-10"	
	D	Continuous	21'-6"	19'-11"	19'-1"	22'-7"	20'-11"	20'-0"	19'-0"	23'-9"	22'-2"	21'-1"	19'-4"	
	Α	Single	19'-5"	17'-11"	17'-4"	20'-9"	19'-2"	18'-3"	17'-5"	22'-2"	20'-7"	19'-6"	18'-5"	
		Continuous	20'-7"	19'-0"	18'-3"	22'-0"	20'-4"	19'-4"	18'-4"	23'-6"	21'-9"	20'-9"	19'-4"	
11 7/8"	В	Single Continuous	20'-0" 21'-2"	18'-6" 19'-8"	17'-9" 18'-10"	21'-3" 22'-7"	19'-8" 20'-11"	18'-9" 19'-11"	17'-10" 18'-11"	22'-8" 24'-1"	21'-1" 22'-4"	20'-1" 21'-3"	18'-11" 19'-4"	
	_	Single	23'-1"	21'-5"	20'-5"	23'-11"	22'-3"	21'-3"	20'-1"	24'-11"	23'-3"	22'-3"	20'-9"	
	С	Continuous	24'-4"	22'-7"	21'-7"	25'-3"	23'-6"	22'-5"	19'-4"	26'-3"	24'-7"	23'-6"	19'-4"	
	D	Single	21'-0"	19'-6"	18'-8"	22'-1"	20'-6"	19'-6"	18'-7"	23'-3"	21'-8"	20'-8"	19'-6"	
		Continuous Single	22'-3"	20'-7" 19'-11"	19'-9" 19'-1"	23'-4" 23'-0"	21'-8" 21'-3"	20'-8"	19'-4" 19'-2"	24'-7"	22'-11" 22'-10"	21'-10"	19'-4" 20'-5"	
	Α	Continuous	22'-10"	21'-2"	20'-3"	24'-5"	22'-7"	21'-6"	20'-4"	26'-1"	24'-2"	23'-0"	21'-4"	
14"		Single	22'-3"	20'-7"	19'-8"	23'-8"	21'-11"	20'-10"	19'-9"	25'-2"	23'-5"	22'-3"	21'-0"	
14	В	Continuous	23'-7"	21'-10"	20'-11"	25'-1"	23'-3"	22'-2"	21'-0"	26'-8"	24'-10"	23'-8"	21'-4"	
	С	Single	25'-11" 27'-4"	24'-1" 25'-5"	23'-0" 24'-3"	26'-10" 28'-3"	25'-0" 26'-5"	23'-10" 25'-2"	22'-7" 21'-4"	27'-10" 29'-4"	26'-1"	24'-11" 26'-4"	23'-3"	
		Continuous Single	23'-6"	25'-5"	20'-10"	28'-3"	26-5"	25-2"	20'-8"	25'-11"	27'-6" 24'-2"	26'-4"	21'-4"	
	D	Continuous	24'-10"	23'-1"	22'-1"	26'-1"	24'-2"	23'-1"	21'-4"	27'-5"	25'-6"	24'-4"	21'-4"	
	Α	Single	23'-6"	21'-8"	20'-9"	25'-1"	23'-2"	22'-0"	20'-10"	26'-10"	24'-10"	23'-7"	22'-2"	
		Continuous	24'-11"	23'-0"	22'-0"	26'-7"	24'-7" 23'-10"	23'-4"	21'-4" 21'-6"	28'-5" 27'-5"	26'-3"	25'-0"	21'-4" 22'-10"	
16"	В	Single Continuous	24'-3" 25'-8"	22'-5" 23'-9"	21'-5" 22'-9"	25'-9" 27'-3"	25'-3"	24'-1"	21'-6"	27'-5"	25'-6" 27'-0"	24'-3" 25'-9"	21'-4"	
j		Single	28'-6"	26'-6"	25'-3"	29'-5"	27'-5"	26'-2"	24'-6"	30'-6"	28'-7"	27'-4"	24'-6"	
	С	Continuous	30'-1"	27'-11"	26'-8"	31'-0"	28'-11"	26'-8"	21'-4"	32'-3"	30'-2"	26'-8"	21'-4"	
	D	Single	25'-9"	23'-10"	22'-10"	27'-0"	25'-0"	23'-10"	22'-7"	28'-4"	26'-4"	25'-1"	23'-8"	
		Continuous Single	27'-3" 25'-4"	25'-3" 23'-5"	24'-1" 22'-5"	28'-6" 27'-1"	26'-5" 25'-0"	25'-3" 23'-9"	21'-4" 22'-6"	29'-11" 28'-11"	27'-10" 26'-9"	26'-7" 25'-5"	21'-4" 23'-11"	
	Α	Continuous	26'-11"	24'-10"	23'-9"	28'-8"	26'-6"	25'-3"	21'-4"	30'-8"	28'-4"	26'-8"	21'-4"	
18"	В	Single	26'-2"	24'-3"	23'-2"	27'-10"	25'-9"	24'-6"	23'-2"	29'-7"	27'-6"	26'-2"	24'-8"	
.5	,	Continuous	27'-9"	25'-8"	24'-7"	29'-6"	27'-4"	26'-0"	21'-4"	31'-4"	29'-2"	26'-8"	21'-4"	
	С	Single Continuous	31'-1" 33'-1"	28'-11" 30'-5"	27'-7" 26'-8"	32'-1" 34'-5"	29'-11" 31'-6"	28'-6" 26'-8"	25'-8" 21'-4"	33'-7" 36'-0"	31'-1" 32'-1"	29'-8" 26'-8"	25'-8" 21'-4"	
	_	Single	28'-0"	25'-11"	24'-9"	29'-4"	27'-2"	25'-10"	24'-6"	30'-8"	28'-7"	27'-3"	25'-8"	
	D	Continuous	29'-7"	27'-5"	26'-2"	30'-11"	28'-8"	26'-8"	21'-4"	32'-7"	30'-2"	26'-8"	21'-4"	
	Α	Single	27'-0"	24'-11"	23'-10"	28'-10"	26'-7"	25'-4"	23'-11"	30'-9"	28'-6"	27'-1"	25'-5"	
		Continuous	28'-8"	26'-5"	25'-3"	30'-7"	28'-2" 27'-5"	26'-8"	21'-4" 24'-9"	32'-10"	30'-2"	26'-8"	21'-4"	
20"	В	Single Continuous	27'-10" 29'-7"	25'-10" 27'-4"	24'-8" 26'-2"	29'-7" 31'-4"	29'-1"	26'-1" 26'-8"	24'-9"	31'-6" 33'-10"	29'-3" 31'-0"	27'-11" 26'-8"	26'-3" 21'-4"	
j		Single	34'-2"	31'-1"	29'-7"	35'-4"	32'-2"	30'-7"	26'-6"	36'-10"	33'-10"	31'-10"	26'-6"	
	С	Continuous	36'-7"	32'-1"	26'-8"	37'-11"	32'-1"	26'-8"	21'-4"	39'-6"	32'-1"	26'-8"	21'-4"	
	D	Single	30'-0"	27'-9"	26'-6"	31'-4"	29'-0"	27'-8"	26'-2"	33'-1"	30'-6"	29'-1"	26'-6"	
		Continuous	31'-8"	29'-3"	26'-8"	33'-5"	30'-8"	26'-8"	21'-4"	35'-7"	32'-1"	26'-8"	21'-4"	



IB800 Maximum Floor Spans 40 psf Unfactored Live Load 30 psf Unfactored Dead Load Limit States Design (LSD) 100% Load Duration

L/360 live load, L/240 total load deflection criteria

7.76°   8   12"   16"   19.2°   12"   16"   19.2°   12"   16"   19.2°   12"   16"   19.2°   12"   17"   16"   19.2°   12"   17"   16"   19.2°   12"   17"   16"   19.2°   12"   17"   16"   19.2°   12"   17"   16"   19.2°   12"   17"   16"   19.2°   12"   17"   16"   19.2°   12"   18"   19.2°				19/32" OSB glued and nailed				2" OSB gl			7/8" OSB glued and nailed				
7.786   A Single   15-4"   14-6"   14-0"   16-0"   15-0"   14-9"   15-5"   14-1"   17-2"   16-2"   15-7"   16-6"   15-7"   16-6"   15-7"   16-6"   15-7"   16-6"   15-7"   16-6"   15-7"   16-6"   15-7"   16-6"   16-5"   15-7"   16-6"   16-5"   16-6"   16-	Joist	Floor	Span	spacing of IB joist (o.c.)							spacing of IB joist (o.c.)				
A			Single		_				_					14'-10"	
8 Single 19-9 14-10 14-4 16-6 19-7 15-10 14-5 15-10 14-		Α	_											13'-11"	
Continuous 19-6, 1	7 7/8"	B						-						14'-10"	
Solitable   Soli	7 7/6							-						13'-11"	
Single   16-3   16-4   16-10   16-11   16-20   16-5   16-10   17-10   16-20   16-5   16-10		С												14'-10"	
Social Continuous   7-70   16-70   15-50   7-75   16-80   16-71   13-71   18-70   7-76   16-70   33-75   18-70   17-70   16-70   18-70   18-70   17-70   16-70   18-70   17-70   16-70   18-70   17-70   18-70   17-70   18-70   17-70   18-70   17-70   18-70   17-70   18-70   17-70   18-70   17-70   18-70   17-70   18-70   17-70   18-70   17-70   18-70   17-70   18-70   17-70   18-70   17-70   18-70   17-70   18-70   17-70   18-70   17-70   18-70   17-70   18-70   17-70   18-70   18-70   17-70   18-	-													14'-10"	
8 5/8°   A Continuous 16-111   15-11   15-50   17-10   16-39   16-32   14-30   19-11   17-97   17-31   17-97   17-31   17-97   17-32   16-30   17-32		D												13'-11"	
8 5/8" B Single 16-8" 18-6" 18-6" 17-4" 18-9" 18-2" 18-0" 18-1" 17-9" 18-1" 18-2" 18-1" 18-5" 18		Δ	Single											15'-7"	
Second   S	-													14'-0"	
C	8 5/8"	В												15'-10"	
Solidary   17-40   16-14   17-47   16-15   16-25   1	-													16'-0"	
Solide   16-07   16-37   18-97   17-67   16-117   14-07   19-97   18-57   17-67   14-117   16-07   15-97   15-37   17-67   16-07   15-97   18-97   17-67   16-07   15-97   18-97   17-07   16-07   15-97   18-17   17-07   16-07   15-97   18-17   17-07   16-07   15-97   18-17   17-07   16-07   15-97   18-17   17-07   16-07   15-97   18-17   17-07   16-07   15-97   18-17   17-07   16-07   16-07   17-07   16-07   16-07   17-07   16-07   16-07   17-07   16-07   16-07   17-07   16-07   16-07   17-07   16-07   1		С												14'-0"	
A		D												16'-0"	
9   14    B   Single   17-7    16-7    16-9    18-9    17-6    16-10    14-10    20-11    18-7    17-9    17-9    14-10														14'-0"	
9   1/4   B		Α												14'-10"	
Continuous 18-9   17-0"   16-5   19-2"   17-10"   17-2"   16-11"   17-0"   16-5"   19-2"   18-2"   17-10"   16-11"   17-10"   18-5"   18-5"   17-5"   16-5"   18-5"   17-5"   16-5"   18-5"   17-5"   16-5"   18-5"   17-5"   16-5"   18-5"   17-5"   16-5"   18-5"   17-5"   16-5"   18-5"   17-5"   16-5"   18-5"   17-5"   16-5"   18-5"   17-5"   16-5"   18-5"   17-5"   16-5"   18-5"	0.4/4"													16'-6"	
Continuous 20:44   18:111   18:15   21:37   19:99   18:77   14:101   22:22   20:99   18:77   17:77   16:101   16:29   18:70   18:70   17:70   16:101   16:29   18:40   17:77   16:101   16:29   18:70   18:7	9 1/4"	В						-					-	14'-10"	
Continuous   20.44   18-11   18-12   21-3   19-9   18-7   14-10   22-2   20.9   18-7   17-7		С					-				-			17'-0"	
D   Continuous   18-9°   17-6°   16-11°   19-9°   18-4"   17-7°   14-10°   20-10°   19-5°   18-6°   14-7°	-								_	_				14'-10" 16'-10"	
A   Single   17-07   16-07   16-57   17-117   16-107   16-37   15-77   19-37   17-107   17-27   16-57     Continuous   17-107   16-97   16-37   16-37   17-70   15-117   19-37   17-107   17-107     B   Single   17-57   16-44   15-107   18-57   17-22   16-77   15-117   19-37   18-37   17-107   17-107     C   Single   17-57   16-44   15-107   18-57   17-22   16-77   15-117   19-37   18-37   17-107   18-57   17-107     C   Single   19-37   18-37   17-77   20-57   19-107   18-27   17-37   21-34   19-117   18-57   15-77     D   Single   18-07   17-07   16-57   21-37   19-107   18-27   17-37   21-34   19-117   18-37   17-37     Single   18-07   17-07   16-57   19-07   18-27   17-117   16-57   20-07   18-38   17-107   17-117   17-17   18-37   17-107   17-107   18-37   17-107   18-37   17-107   18-37   17-107   18-37   17-107   18-37   17-107   18-37   17-107   18-37   17-107   18-37   17-107   18-37   17-107   18-37		D						_		-				14'-10"	
9   1/2   B   Single   17-5   16-4   15-10   18-5   17-2   16-7   15-11   19-8   18-3   17-6   16-7   15-10   16-2   16-7   15-11   19-8   18-3   17-6   16-7   15-10   18-2   17-3   18-2   17-5   18-3   17-6   16-7   15-10   18-2   17-3   18-2   17-3   18-3   17-6   16-7   19-6   18-10   17-5   18-10   18-2   17-3   21-4   19-11   18-5   15-10   18-2   17-3   21-4   19-11   18-5   15-10   18-2   17-3   21-4   19-11   18-5   15-10   18-2   17-3   21-4   19-11   18-5   15-10   18-2   17-3   21-4   19-11   18-5   17-10   18-2   17-3   21-4   19-11   18-5   17-10   18-2   17-3   21-4   19-11   18-5   17-10   18-2   17-3   21-4   19-11   18-5   17-10   18-2   17-3   21-4   19-11   18-5   17-10   17-2   20-11   18-2   17-10   17-2   20-11   18-2   17-10   17-2   20-11   18-2   17-10   17-2   20-11   18-2   17-10   17-2   20-11   18-2   17-10   17-2   20-11   18-2   17-10   18-2   18-2   17-10   18-2   18-2   17-2   18-2		Δ	Single										17'-2"	16'-4"	
Single   19-4   17-2   16-7   19-6   18-11   17-5   15-11   17-10   19-4   18-5   15-15   15		^												15'-11"	
C	9 1/2"	В							-					16'-8" 15'-11"	
D   Single   18-0   17-0   18-1   18-5   21-7   20-11   19-21   18-11   12-7   21-11   19-11   18-11	ŀ													17'-5"	
Notition   19-11   17-97   17-27   20-11   18-8   17-107   15-117   21-27   19-97   18-107   15-117		С			19'-3"									15'-11"	
Continuous   19-11   17-91   17-92   20-11   18-88   17-10   15-111   21-32   19-91   18-10   23-10   20-10   24-41   22-80   21-80   23-41   22-80		D												17'-0"	
11   1/4"   B   Single   19-4"   19-6"   18-5"   19-9"   19-9"   19-9"   19-9"   21-9"   20-5"   19-9"   18-2"   20-7"   18-2"   20-8"   19-9"   21-9"   20-8"   19-9"   21-9"   20-8"   19-9"   21-9"   20-8"   19-9"   21-														15'-11"	
11 1/4"   B   Single   19-4"   17-11"   17-3"   20-7"   19-1"   18:2"   17-4"   22-0"   20-5"   19-5"   19-5"   18-5"   18-5"   18-1"   23-4"   22-6"   20-7"   19-5"   18-5"   18-1"   23-4"   22-6"   20-7"   19-5"   18-5"   19-5"   20-7"   19-5"   19-5"   20-7"   19-5"   19-5"   20-7"   19-5"   20-7"   19-5"   20-7"   19-5"   20-7"   19-5"   20-7"   19-5"   20-7"   19-5"   20-7		Α												18'-1"	
Continuous 20-6' 19-0' 18-2' 271-10' 20-3' 18-3' 18-1' 23-4' 21-6' 20-6' 18-6' 20-6' 18-6' 23-1' 21-6' 19-6' 20-6' 19-4' 21-6' 19-4' 21-6' 20-6' 21-6' 19-6' 20-6' 21-6' 19-6' 20-6' 21-6' 19-6' 21-6' 19-6' 21-6' 19-6' 21-6' 19-6' 21-6' 19-1' 21-6' 21-6' 20-6' 21-6' 21-6' 20-6' 21-6' 21-6' 20-6' 21-6'	11 1/4"	В												18'-4"	
Continuous   23-6"   21-10"   20-10"   24-4"   22-8"   21-8"   18-11"   25-5"   23-9"   22-8"   18-8   18-9	11 1/4	В												18'-1"	
D   Single   20-4"   18'-10"   18-0"   21'-4"   19'-10"   18'-11"   17'-11"   22-6"   20'-11"   18'-11"		С	_											19'-4"	
A   Single   19-56   19-111   19-11   22-77   20-111   20-07   18-11   23-97   22-22   21-11   18-1   18-1   23-97   22-22   21-11   18-1   23-97   22-22   21-11   18-1   23-97   22-22   20-07   19-67   18-3   22-07   20-41   19-41   18-11   23-67   21-97   20-97   18-6   18-5   20-97   18-6   18-5   20-97   18-6   18-5   20-97   18-6   18-5   20-97   18-6   18-5   20-97   18-6   20-97   20-97   18-6   20-97   20-97   18-6   20-97   20-97   18-6   20-97														18'-10"	
A		D												18'-1"	
117/8"   B   Single   20-0"   18-6"   17-9"   21-3"   19-8"   18-9"   17-10"   22-8"   21-1"   20-9"   18-6"   17-7"   21-3"   19-8"   18-9"   17-10"   22-8"   21-1"   20-9"   18-6"   17-7"   21-3"   19-8"   18-9"   17-10"   22-8"   21-1"   20-9"   18-7"   21-3"   22-3"   22-3"   22-		Δ												18'-5"	
117/8   B		,,												18'-1"	
C Single 23-11 21-5" 20-5" 23-111 22-3" 21-3" 20-1" 24-111 23-3" 22-3" 22-3" 20-1   D Single 21-0" 19-6" 18-8" 22-11 20-6" 19-6" 18-1" 26-3" 24-7" 22-8" 18-1   D Single 21-0" 19-6" 18-8" 22-11 20-6" 19-6" 18-1" 26-3" 23-3" 24-7" 22-8" 18-1   Continuous 22-3" 20-7" 19-9" 23-4" 21-8" 20-8" 18-1" 24-7" 22-11" 21-10" 18-1   Single 21-0" 19-1" 19-1" 23-0" 21-3" 20-3" 19-2" 24-8" 22-10" 21-8" 20-8" 19-1   Continuous 22-10" 21-2" 20-3" 24-5" 22-7" 21-6" 20-0" 26-1" 24-2" 23-0" 20-0   Continuous 22-10" 21-2" 20-3" 24-5" 22-7" 21-6" 20-0" 26-1" 24-2" 23-0" 20-0   Continuous 23-7" 21-10" 20-11" 25-1" 20-11" 20-10" 19-9" 25-2" 23-5" 22-3" 21-0   Continuous 23-7" 21-10" 20-11" 25-1" 25-1" 20-10" 19-9" 25-2" 23-5" 22-3" 20-10"	11 7/8"	В	•											18'-11"	
Continuous   24'-4"   22'-7"   21'-7"   25'-3"   23'-6"   22'-5"   18'-1"   26'-3"   24'-7"   22'-9"   18'-8"   20'-8"   18'-1"   26'-3"   24'-7"   22'-5"   18'-7"   22'-8"   19'-9"   23'-4"   21'-8"   20'-8"   18'-1"   24'-7"   22'-11"   21'-10"   18'-8"   23'-8"   21'-8"   20'-8"   18'-1"   24'-7"   22'-11"   21'-10"   18'-8"   23'-8"   21'-8"   20'-8"   18'-1"   24'-7"   22'-11"   21'-10"   18'-8"   23'-8"   21'-8"   20'-8"   19'-2"   24'-8"   22'-10"   21'-8"   20'-2"   21'-8"   20'-2"   21'-8"   20'-2"   21'-8"   20'-2"   21'-8"   20'-2"   21'-8"   20'-2"   21'-8"   20'-2"   21'-8"   20'-2"   21'-8"   20'-2"   21'-8"   20'-2"   21'-8"   20'-2"   21'-8"   20'-2"   21'-8"   20'-2"   21'-8"   20'-2"   21'-8"   20'-2"   21'-8"   20'-2"   21'-8"   20'-2"   21'-2"   23'-5"   22'-3"   21'-2"   20'-2"   21'-8"   20'-2"   22'-3"   21'-2"   22'-3"   21'-2"   22'-3"   21'-2"   22'-3"   21'-2"   22'-3"   21'-2"   22'-3"   21'-2"   22'-3"   21'-2"   22'-3"   21'-2"   22'-3"   21'-2"   22'-3"   21'-2"   22'-3"   21'-2"   22'-3"   21'-2"   22'-3"   21'-2"   22'-3"   21'-2"   22'-3"   21'-3"														20'-7"	
Continuous   22-3"   20-7"   19-9"   23-4"   21-8"   20-8"   18-1"   24-7"   22-11"   21-10"   18-8"   20-3"   19-2"   24-8"   22-10"   21-8"   20-3"   20-3"   19-2"   24-8"   22-10"   21-8"   20-3"   20-		C		24'-4"	22'-7"	21'-7"			22'-5"	18'-1"	26'-3"	24'-7"	22'-8"	18'-1"	
A		D	•											19'-6"	
A										-				20'-5"	
14"   B		Α								_				20'-0"	
Continuous 23-7" 21-10" 26-11" 25-0" 23-3" 22-2" 20-0" 26-8" 24-10" 23-8" 20-0   Continuous 27-4" 25-5" 24-3" 28-3" 26-5" 25-0" 20-0" 29-4" 27-6" 25-0" 25-0" 20-0   D Single 23-6" 211-10" 20-10" 24-8" 22-11" 211-10" 20-8" 25-11" 24-2" 23-0" 21-0   Continuous 24-10" 23-1" 22-1" 26-11" 24-2" 23-1" 20-0" 27-5" 25-6" 24-4" 20-0   Single 23-6" 211-8" 20-9" 25-1" 24-2" 23-1" 20-0" 27-5" 25-6" 24-4" 20-0   Continuous 24-11" 23-0" 22-0" 26-7" 24-7" 23-4" 20-0" 27-5" 25-6" 24-4" 20-0   Continuous 24-11" 23-0" 22-0" 26-7" 24-7" 23-4" 20-0" 28-5" 26-3" 25-0" 20-0   Continuous 24-11" 23-0" 22-0" 26-7" 24-7" 23-4" 20-0" 28-5" 26-3" 25-0" 20-0   Continuous 25-8" 23-9" 22-9" 27-3" 25-3" 24-1" 20-0" 29-1" 27-0" 25-0" 20-0   Continuous 25-8" 23-9" 22-9" 27-3" 25-3" 24-1" 20-0" 29-1" 27-0" 25-0" 20-0   Continuous 30-1" 27-11" 25-0" 31-0" 28-11" 25-0" 20-0" 32-3" 30-0" 25-0" 20-0   Continuous 27-3" 25-3" 24-1" 28-6" 26-5" 20-0" 20-0" 32-3" 30-0" 25-0" 20-0   Continuous 27-3" 25-3" 24-1" 28-6" 26-5" 25-0" 20-0" 32-3" 30-0" 25-0" 20-0   Continuous 27-3" 25-3" 24-1" 28-6" 26-5" 25-0" 20-0" 32-3" 30-0" 25-0" 20-0   Continuous 27-3" 25-3" 24-1" 28-6" 26-5" 25-0" 20-0" 30-8" 28-4" 26-4" 25-1" 22-1"   Continuous 27-3" 25-3" 24-1" 28-6" 26-5" 25-0" 20-0" 30-8" 28-4" 25-0" 20-0   Continuous 27-9" 25-8" 24-7" 29-6" 27-4" 25-0" 20-0" 31-4" 29-2" 25-0" 20-0   Continuous 27-9" 25-8" 24-7" 29-6" 27-4" 25-0" 20-0" 31-4" 29-2" 25-0" 20-0   Continuous 27-9" 25-8" 24-7" 29-6" 27-4" 25-0" 20-0" 31-4" 29-2" 25-0" 20-0   Continuous 27-9" 25-8" 24-7" 29-6" 27-4" 25-0" 20-0" 31-4" 29-2" 25-0" 20-0   Continuous 27-7" 27-5" 25-0" 30-11" 28-8" 25-0" 20-0" 30-0" 30-0" 25-0" 20-0   Continuous 29-7" 27-5" 25-0" 30-11" 28-8" 25-0" 20-0" 30-0" 30-0" 25-0" 20-0   Continuous 29-7" 27-5" 25-0" 30-11" 28-8" 25-0" 20-0" 30-0" 30-0" 25-0" 20-0   Continuous 29-7" 27-5" 25-0" 30-11" 28-8" 25-0" 20-0" 30-0" 30-0" 25-0" 20-0" 30-0" 25-0" 20-0" 30-0" 25-0" 20-0" 30-0" 25-0" 20-0" 30-0" 25-0" 20-0" 30-0" 30-0" 25-0" 20-0" 30-0" 30-0" 25-0" 20-0" 30-0" 30-0" 25-0" 20-0" 30	1/1"	B	Single								25'-2"			21'-0"	
Continuous   27-4"   25-5"   24'-3"   28'-3"   26'-5"   25'-0"   20'-0"   29'-4"   27'-6"   25'-0"   20'-0"														20'-0"	
Single		С												20'-0"	
A   Single   23'-6"   21'-8"   20'-9"   25'-1"   22'-1"   26'-1"   24'-2"   23'-1"   20'-0"   27'-5"   25'-6"   24'-4"   20'-9"   25'-1"   23'-2"   22'-0"   20'-10"   26'-10"   24'-10"   23'-7"   22'-2"   22'-0"   20'-10"   26'-10"   24'-10"   23'-7"   22'-2"   22'-0"   20'-10"   26'-10"   24'-10"   23'-7"   22'-2"   22'-0"   20'-10"   26'-3"   25'-0"   20'-2"   28'-5"   26'-3"   25'-0"   20'-2"   28'-5"   26'-3"   25'-6"   24'-3"   22'-2"   22'-0"   20'-10"   26'-10"   24'-10"   23'-7"   22'-2"   23'-10"   22'-8"   21'-6"   27'-5"   25'-6"   24'-3"   22'-2"   23'-10"   22'-8"   21'-6"   27'-5"   25'-6"   24'-3"   22'-2"   23'-10"   22'-8"   21'-6"   27'-5"   25'-6"   24'-3"   22'-2"   23'-10"   22'-10"   25'-0"   20'-2"   23'-10"   22'-11"   30'-6"   28'-7"   27'-4"   22'-2"   28'-8"   26'-2"   22'-11"   30'-6"   28'-7"   27'-4"   22'-2"   28'-4"   26'-4"   25'-0"   20'-2"   23'-10"   22'-10"   27'-0"   25'-0"   23'-10"   22'-11"   30'-6"   28'-7"   27'-4"   22'-2"   28'-4"   26'-4"   25'-0"   20'-2"   23'-2"   23'-3"   30'-0"   25'-0"   20'-2"   23'-2"   22'-6"   28'-11"   25'-0"   20'-2"   25'-0"   20'-2"   23'-2"   22'-10"   25'-2"   23'-2"   22'-6"   28'-11"   26'-9"   25'-5"   23'-2	ŀ													21'-8"	
16"   A		ט	Continuous						23'-1"					20'-0"	
B   Single   24'-31"   22'-0"   22'-0"   26'-7"   23'-4"   23'-4"   27'-5"   26'-6"   24'-3"   22'-0"   26'-6"   24'-3"   22'-0"   26'-6"   24'-3"   22'-1"   27'-0"   26'-6"   24'-3"   22'-1"   27'-0"   26'-6"   24'-3"   22'-1"   27'-0"   26'-6"   24'-3"   22'-1"   27'-0"   26'-6"   24'-3"   22'-1"   27'-0"   26'-6"   26'-2"   22'-11"   30'-6"   28'-7"   27'-4"   22'-7"   28'-6"   28'-7"   27'-4"   22'-7"   28'-6"   28'-7"   27'-4"   22'-7"   28'-6"   28'-7"   27'-4"   22'-7"   28'-6"   28'-7"   27'-6"   26'-0"   28'-11"   26'-0"   32'-3"   30'-0"   25'-0"   20'-7"   25'-0"   20'-7"   25'-0"   20'-7"   25'-0"   20'-7"   25'-0"   20'-7"   25'-0"   20'-7"   26'-4"   26'-4"   26'-4"   26'-4"   26'-4"   26'-4"   26'-5"   20'-7"   22'-8"   20'-7"   20'-7"   26'-4"   26'-4"   26'-4"   26'-5"   20'-7"   20'		Α												22'-2"	
B	-													20'-0" 22'-10"	
C   Single   28-6"   26-6"   25'-3"   29'-5"   27'-5"   26'-2"   22'-11"   30'-6"   28'-7"   27'-4"   22'-10'   20'-0'   20'-0'   32'-3"   30'-0'   25'-0'   20'-0'   20'-0'   32'-3"   30'-0'   25'-0'   20'-0'   20'-0'   32'-3"   30'-0'   25'-0'   20'-0'   20'-0'   23'-3"   30'-0'   25'-0'   20'-0'   20'-0'   23'-3"   30'-0'   25'-0'   20'-0'	16"	В												20'-0"	
D	İ	C	Single	28'-6"	26'-6"	25'-3"	29'-5"	27'-5"	26'-2"		30'-6"	28'-7"	27'-4"	22'-11"	
A   Single   25'-3"   24'-1"   28'-6"   26'-5"   25'-0"   20'-0"   29'-11"   27'-10"   25'-0"   20'-	ļ	3												20'-0"	
A   Single   25'-4"   23'-5"   22'-5"   27'-1"   25'-0"   23'-9"   22'-6"   28'-11"   26'-9"   25'-5"   23'-7     Continuous   26'-11"   24'-10"   23'-9"   28'-8"   26'-6"   25'-0"   20'-0"   30'-8"   28'-4"   25'-0"   20'-0     B   Single   26'-2"   24'-3"   23'-2"   27'-10"   25'-9"   24'-6"   23'-2"   29'-7"   27'-6"   26'-2"   24'-2     Continuous   27'-9"   25'-8"   24'-7"   29'-6"   27'-4"   25'-0"   20'-0"   31'-4"   29'-2"   25'-0"   20'-0     C   Single   31'-1"   28'-11"   27'-7"   32'-1"   29'-11"   28'-6"   24'-0"   33'-7"   31'-1"   29'-8"   24'-2     D   Single   28'-0"   25'-11"   24'-9"   29'-4"   25'-0"   20'-0"   36'-0"   30'-0"   25'-0"   20'-0     Continuous   29'-7"   27'-5"   25'-0"   30'-11"   28'-8"   25'-0"   20'-0"   32'-7"   30'-0"   25'-0"   20'-0     A   Single   27'-0"   24'-11"   23'-10"   28'-2"   25'-0"   20'-2"   23'-11"   30'-9"   28'-6"   27'-1"   24'-2     A   Single   27'-10"   25'-10"   24'-8"   29'-7"   27'-5"   25'-0"   20'-0"   32'-10"   30'-0"   25'-0"   20'-0"     B   Single   27'-10"   25'-10"   24'-8"   29'-7"   27'-5"   25'-0"   20'-0"   33'-10"   30'-0"   25'-0"   20'-0"     C   Single   34'-2"   31'-1"   29'-7"   35'-4"   32'-2"   30'-7"   24'-9"   31'-6"   29'-3"   27'-11"   24'-0"     C   Single   34'-2"   31'-1"   29'-7"   35'-4"   32'-2"   30'-7"   24'-9"   36'-10"   33'-10"   31'-0"   24'-0"     C   Single   34'-2"   31'-1"   29'-7"   35'-4"   32'-2"   30'-7"   24'-9"   36'-10"   33'-10"   31'-0"   24'-0"     C   Single   36'-7"   30'-0"   25'-0"   31'-4"   29'-7"   27'-8"   24'-9"   36'-10"   33'-10"   31'-0"   24'-0"   31'-0"   24'-0"   30'-0"   30'-0"   25'-0"   20'-0"   31'-1"   24'-0"   30'-0"   25'-0"   20'-0"   30'-0"   25'-0"   20'-0"   30'-0"   25'-0"   20'-0"   30'-0"   30'-0"   25'-0"   20'-0"   30'-0"   30'-0"   25'-0"   20'-0"   30'-0"   30'-0"   25'-0"   20'-0"   30'-0"   30'-0"   25'-0"   20'-0"   30'-0"   30'-0"   25'-0"   20'-0"   30'-0"   30'-0"   25'-0"   20'-0"   30'-0"   30'-0"   25'-0"   20'-0"   30'-0"   30'-0"   25'-0"   20'-0"   30		D												22'-11" 20'-0"	
B														23'-11"	
B		Α		26'-11"			28'-8"							20'-0"	
Continuous 27-9" 25-8" 24-7" 29-6" 27-4" 25-0" 31-4" 29-2" 25-0" 20-0    Continuous 31-1" 28-11" 27-7" 32-1" 29-11" 28-6" 24-0" 33-7" 31-1" 29-8" 24-0    Continuous 33-1" 30-0" 25-0" 34-5" 30-0" 25-0" 20-0" 36-0" 30-0" 25-0" 20-0    Bingle 28-0" 25-11" 24-9" 29-4" 27-2" 25-10" 24-0" 30-8" 28-7" 27-3" 24-0    Continuous 29-7" 27-5" 25-0" 30-11" 28-8" 25-0" 20-0" 32-7" 30-0" 25-0" 20-0    A Single 27-0" 24-11" 23-10" 28-10" 28-10" 25-0" 20-0" 32-10" 30-0" 25-0" 20-0    Continuous 28-8" 26-5" 25-0" 30-11" 28-2" 25-0" 20-0" 32-10" 30-0" 25-0" 20-0    B Single 27-10" 25-10" 24-8" 29-7" 27-5" 26-1" 24-9" 31-6" 29-3" 27-11" 24-0    Continuous 29-7" 27-4" 25-0" 31-4" 29-1" 25-0" 20-0" 33-10" 30-0" 25-0" 20-0    Continuous 29-7" 37-4" 25-0" 31-4" 29-1" 25-0" 20-0" 33-10" 30-0" 25-0" 20-0    Continuous 36-7" 30-0" 25-0" 37-11" 30-0" 25-0" 20-0" 33-10" 30-10" 25-0" 20-0    Continuous 36-7" 30-0" 25-0" 37-11" 30-0" 25-0" 20-0" 33-10" 30-0" 25-0" 20-0    D Single 30-0" 27-9" 26-6" 31-4" 29-0" 27-8" 24-9" 33-1" 30-6" 29-1" 24-0    D Single 30-0" 27-9" 26-6" 31-4" 29-0" 27-8" 24-9" 33-1" 30-6" 29-1" 24-1    D Single 30-0" 27-9" 26-6" 31-4" 29-0" 27-8" 24-9" 33-1" 30-6" 29-1" 24-1    Continuous 29-7" 30-0" 25-0" 20-0" 31-1" 30-0" 25-0" 20-0    D Single 30-0" 27-9" 26-6" 31-4" 29-0" 27-8" 24-9" 33-1" 30-6" 29-1" 24-1    D Single 30-0" 27-9" 26-6" 31-4" 29-0" 27-8" 24-9" 33-1" 30-6" 29-1" 24-1    D Single 30-0" 27-9" 26-6" 31-4" 29-0" 27-8" 24-9" 33-1" 30-6" 29-1" 24-1    D Single 30-0" 27-9" 26-6" 31-4" 29-0" 27-8" 24-9" 33-1" 30-6" 29-1" 24-1    D Single 30-0" 27-9" 26-6" 31-4" 29-0" 27-8" 24-9" 33-1" 30-6" 29-1" 24-1    D Single 30-0" 27-9" 26-6" 31-4" 29-0" 27-8" 24-9" 33-1" 30-6" 29-1" 24-1    D Single 30-0" 27-9" 26-6" 31-4" 29-0" 27-8" 24-9" 33-1" 30-6" 29-1" 24-1    D Single 30-0" 27-9" 26-6" 31-4" 29-0" 27-8" 24-9" 33-1" 30-6" 29-1" 24-1    D Single 30-0" 27-9" 26-6" 31-4" 29-0" 27-8" 24-9" 33-1" 30-6" 29-1" 24-1    D Single 30-0" 27-9" 26-6" 31-4" 29-0" 27-8" 24-9" 33-1" 30-6" 29-1" 24-1    D Single 30-0" 27-9" 26-6" 3	18"	В												24'-0"	
Continuous 33-1" 30'-0" 25'-0" 34'-5" 30'-0" 25'-0" 20'-0" 36'-0" 30'-0" 25'-0" 20'-0" 36'-0" 30'-0" 25'-0" 20'-0" 36'-0" 30'-0" 25'-0" 20'-0" 30'-0" 25'-0" 20'-0" 30'-0" 25'-0" 20'-0" 30'-0" 20'-0"	10		+											20'-0" 24'-0"	
D Single 28-0" 25-11" 24'-9" 29'-4" 27'-2" 25'-10" 24'-0" 30'-8" 28'-7" 27'-3" 24'- Continuous 29'-7" 27'-5" 25'-0" 30'-11" 28'-8" 25'-0" 20'-0" 32'-7" 30'-0" 25'-0" 20'-0  A Single 27'-0" 24'-11" 23'-10" 28'-10" 26'-7" 25'-4" 23'-11" 30'-9" 28'-6" 27'-1" 24'- Continuous 28'-8" 26'-5" 25'-0" 30'-7" 28'-2" 25'-0" 20'-0" 32'-10" 30'-0" 25'-0" 20'-0" B Single 27'-10" 25'-10" 24'-8" 29'-7" 27'-5" 26'-1" 24'-9" 31'-6" 29'-3" 27'-11" 24'- Continuous 29'-7" 27'-4" 25'-0" 31'-4" 29'-1" 25'-0" 20'-0" 33'-10" 30'-0" 25'-0" 20'-0" C Single 34'-2" 31'-1" 29'-7" 35'-4" 32'-2" 30'-7" 24'-9" 36'-10" 33'-10" 31'-0" 24'-0" Continuous 36'-7" 30'-0" 25'-0" 37'-4" 30'-0" 25'-0" 20'-0" 39'-6" 30'-0" 25'-0" 20'-0" D Single 30'-0" 27'-9" 26'-6" 31'-4" 29'-0" 27'-8" 24'-9" 33'-1" 30'-6" 29'-1" 24'-0"		С	_							_				20'-0"	
Continuous 29-7° 27-5° 25-0° 30-11° 28-8° 25-0° 30-20° 32-7° 30-0° 25-0° 20-20° 32-7° 30-0° 25-0° 20-20° 30-20° 28-10° 28	ŀ	Р												24'-0"	
20"   B		ט												20'-0"	
20" B Single 27'-10" 25'-0" 24'-8" 29'-7" 27'-5" 26'-1" 24'-9" 31'-6" 29'-3" 27'-11" 24'-  Continuous 29'-7" 27'-4" 25'-0" 31'-4" 29'-1" 25'-0" 30'-0" 33'-10" 30'-0" 25'-0" 20'-0" 31'-10" 30'-0" 25'-0" 20'-0" 31'-10" 30'-0" 25'-0" 20'-0" 31'-10" 30'-0" 25'-0" 20'-0" 31'-10" 30'-0" 25'-0" 20'-0" 31'-10" 30'-0" 25'-0" 20'-0" 31'-10" 30'-0" 25'-0" 20'-0" 31'-10" 30'-0" 25'-0" 20'-0" 30'-0" 30'-0" 25'-0" 20'-0" 30'-0" 30'-0" 25'-0" 20'-0" 30'-0" 30'-0" 25'-0" 20'-0" 30'-0" 30'-0" 25'-0" 20'-0" 30'-0" 20'-0" 30'-0" 25'-0" 20'-0" 30'-0" 20'-0" 30'-0" 25'-0" 20'-0" 30'-0" 20'-0" 30'-0" 25'-0" 20'-0" 30'-		Α												24'-9"	
Continuous 29:-7" 27'-4" 25'-0" 31'-4" 29'-1" 25'-0" 20'-0" 33'-10" 30'-0" 25'-0" 20'-	ŀ													24'-9"	
C Single 34'-2" 31'-1" 29'-7" 35'-4" 32'-2" 30'-7" 24'-9" 36'-10" 33'-10" 31'-0" 24'- Continuous 36'-7" 30'-0" 25'-0" 37'-11" 30'-0" 25'-0" 20'-0" 39'-6" 30'-0" 25'-0" 20'- Single 30'-0" 27'-9" 26'-6" 31'-4" 29'-0" 27'-8" 24'-9" 33'-1" 30'-6" 29'-1" 24'-	20"	В												20'-0"	
Continuous 36-7 30-0 25-0 37-11 30-0 25-0 20-0 39-6 30-0 25-0 20-0 Single 30-0 27-9 26-6 31-4 29-0 27-8 24-9 33-1 30-6 29-1 24-	İ	C	Single	34'-2"	31'-1"	29'-7"	35'-4"	32'-2"	30'-7"	24'-9"	36'-10"	33'-10"	31'-0"	24'-9"	
	ļ.	3												20'-0"	
		D	Single Continuous	30'-0" 31'-8"	27'-9" 29'-3"	26'-6" 25'-0"	31'-4" 33'-5"	29'-0" 30'-0"	27'-8" 25'-0"	24'-9" 20'-0"	33'-1" 35'-7"	30'-6" 30'-0"	29'-1" 25'-0"	24'-9" 20'-0"	



### **Notes for Floor Span Tables:**

### IB EWP Inc.

- (a) Allowable spans are applicable to floor construction. For ultimate limit states a load factor of 1.5 is applied to the live load and a load factor of 1.25 applied to the dead load. The serviceability limit states include the 1997 CCMC concluding report vibration criteria, including use of 1.2 composite stiffness factor for multiple span conditions. The live and total load deflection limits are indicated at the top of the table. The design is to CSA O86-19 and the 2020 NBCC.
- (b) Spans are based on partial composite action with glued and nailed OSB subfloor conforming to CSA O325. The span ratings are as follows: 1F20 (19/32" thick), 1F24 (23/32" thick) and 1F32 (7/8" thick).
- (c) Minimum bearing length shall be 1-3/4" for end bearing when I-joists are used with the 40L span tables, and minimum 3 1/2" length with 50L and 100L tables. Use 3-1/2" for all interior bearings. Maximum design spans in the table are measured from the inside face of bearings for simple spans and from inside face of end bearing to centre of interior bearing for continuous spans.
- (d) Bearing stiffeners are not required when I-joists are used with the spans given in the 40L tables, except as required by hanger manufacturers. Bearing stiffeners are required at all bearings when I-joists are used with the 50L and 100L span tables.
- (e) This table is based on uniform loads. For applications 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 given in CCMC 14146-R and APA PR-L330(C) evaluation reports. For technical support, contact IB EWP Inc. or your local IB EWP Inc. distributor.
- (f) Continuous spans given in the table above are the longest spans between 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 of between 40% and 80%, provide metal hangers or equivalent to withstand an uplift force at the end of the shorter span. Calculate factored uplift (pounds) at the end of the shorter span with the longer span (only) loaded with live load. For all other applications, consult IB EWP Inc.

Legend: Assembly "A" = Indicated subfloor with no additional components added.

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

Assembly "C" = Assembly "B" plus one row of I-joist blocking at mid-span.

Assembly "D" = Assembly "A" plus one row of I-joist blocking at mid-span.



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