

I Joist Span Comparison

Depth	Manufacturer	Series	Flange Size	Simple Spans On Center Spacing				Multiple Spans On Center Spacing			
				12"	16"	19.2"	24"	12"	16"	19.2"	24"
9 1/2"	Louisiana Pacific	LPI 18	1 1/2" X 2 1/2"	16'-6"	15'-1"	14'-3"	13'-4"	18'-3"	16'-8"	15'-3"	13'-7"
	Louisiana Pacific	LPI 20	1 1/2" X 2 1/2"	17'-9"	16'-2"	15'-3"	14'-3"	19'-7"	17'-11"	16'-7"	14'-10"
	Boise LVL Flange	BCI 4500	1 1/8" X 1 3/4"	16'-11"	15'-6"	14'-8"	13'-7"	*	*	*	*
	Boise LVL Flange	BCI 5000	1 1/8" X 2"	17'-6"	16'-0"	15'-2"	14'-1"	*	*	*	*
	Trus Joist	TJI 110	1 3/8" X 1 3/4"	16'-11"	15'-6"	14'-7"	13'-7"	*	*	*	*
	Trus Joist	TJI 210	1 3/8" X 2 1/16"	17'-9"	16'-3"	15'-4"	14'-3"	*	*	*	*
	Trus Joist	TJI 230	1 3/8" X 2 5/16"	18'-3"	16'-8"	15'-9"	14'-8"	*	*	*	*
	Bluelinx	BLI 40	1 1/2" X 2 1/2"	18'-0"	16'-5"	15'-6"	14'-6"	19'-7"	17'-11"	16'-4"	14'-7"

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				12"	16"	19.2"	24"	12"	16"	19.2"	24"
11 7/8"	Louisiana Pacific	LPI 18	1 1/2" X 2 1/2"	19'-9"	18'-1"	17'-1"	15'-7"	21'-10"	19'-1"	17'-5"	15'-7"
	Louisiana Pacific	LPI 20	1 1/2" X 2 1/2"	21'-2"	19'-4"	18'-3"	17'-0"	23'-5"	21'-1"	19'-3"	17'-2"
	Boise LVL Flange	BCI 4500	1 1/8" X 1 3/4"	20'-0"	18'-4"	17'-3"	15'-5"	*	*	*	*
	Boise LVL Flange	BCI 5000	1 1/8" X 2"	20'-9"	19'-0"	17'-11"	16'-7"	*	*	*	*
	Trus Joist	TJI 110	1 3/8" X 1 3/4"	20'-2"	18'-5"	17'-4"	15'-9"	*	*	*	*
	Trus Joist	TJI 210	1 3/8" X 2 1/16"	21'-1"	19'-3"	18'-2"	16'-11"	*	*	*	*
	Trus Joist	TJI 230	1 3/8" X 2 5/16"	21'-8"	19'-10"	18'-8"	17'-5"	*	*	*	*
	Bluelinx	BLI 40	1 1/2" X 2 1/2"	21'-5"	19'-7"	18'-6"	16'-8"	23'-5"	20'-5"	18'-7"	16'-7"

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				12"	16"	19.2"	24"	12"	16"	19.2"	24"
14"	Louisiana Pacific	LPI 18	1 1/2" X 2 1/2"	22'-6"	20'-7"	19'-1"	17'-1"	24'-3"	21'-0"	19'-1"	17'-1"
	Louisiana Pacific	LPI 20	1 1/2" X 2 1/2"	24'-1"	22'-0"	20'-9"	18'-7"	26'-4"	22'-10"	20'-10"	18'-7"
	Boise LVL Flange	BCI 4500	1 1/8" X 1 3/4"	22'-9"	20'-7"	18'-9"	16'-9"	*	*	*	*
	Boise LVL Flange	BCI 5000	1 1/8" X 2"	23'-7"	21'-7"	20'-2"	18'-0"	*	*	*	*
	Trus Joist	TJI 110	1 3/8" X 1 3/4"	22'-10"	20'-11"	19'-2"	17'-2"	*	*	*	*
	Trus Joist	TJI 210	1 3/8" X 2 1/16"	23'-11"	21'-10"	20'-8"	18'-10"	*	*	*	*
	Trus Joist	TJI 230	1 3/8" X 2 5/16"	24'-8"	22'-6"	21'-2"	19'-9"	*	*	*	*
	Bluelinx	BLI 40	1 1/2" X 2 1/2"	24'-4"	22'-3"	20'-6"	18'-4"	25'-11"	22'-5"	20'-5"	18'-3"

Depth	Manufacturer	Series	Flange Size	Simple Spans On Center Spacing				Multiple Spans On Center Spacing			
				12"	16"	19.2"	24"	12"	16"	19.2"	24"
16"	Louisiana Pacific	LPI 20	1 1/2" X 2 1/2"	26'-9"	24'-5"	22'-4"	19'-7"	28'-3"	24'-5"	22'-4"	19'-7"
	Boise LVL Flange	BCI 4500	1 1/8" X 1 3/4"	25'-2"	22'-0"	20'-1"	17'-11"	*	*	*	*
	Boise LVL Flange	BCI 5000	1 1/8" X 2"	Boise does not show this series in this depth				*	*	*	*
	Trus Joist	TJI 210	1 3/8" X 2 1/16"	26'-6"	24'-3"	22'-6"	19'-11"	*	*	*	*
	Trus Joist	TJI 230	1 3/8" X 2 5/16"	27'-3"	24'-10"	23'-6"	21'-1"	*	*	*	*
	Bluelinx	BLI 40	1 1/2" X 2 1/2"	26'-11"	24'-3"	22'-1"	19'-9"	27'-11"	24'-2"	22'-0"	19'-8"

Simple Spans

Multiple Spans

On Center Spacing

Depth	Manufacturer	Series	Flange Size	Simple Spans				Multiple Spans			
				12"	16"	19.2"	24"	12"	16"	19.2"	24"
9 1/2"	Louisiana Pacific	LPI 32	1 1/2" X 2 1/2"	18'-9"	17'-0"	16'-0"	14'-9"	20'-10"	18'-11"	17'-10"	16'-6"
	Boise LVL Flange	BCI 6000	1 1/8" X 2 5/16"	18'-2"	16'-8"	15'-8"	14'-8"	*	*	*	*
	Trus Joist	TJI 230	1 3/8" X 2 5/16"	18'-3"	16'-8"	15'-9"	14'-8"	*	*	*	*

Simple Spans

Multiple Spans

On Center Spacing

On Center Spacing

Depth	Manufacturer	Series	Flange Size	Simple Spans				Multiple Spans			
				12"	16"	19.2"	24"	12"	16"	19.2"	24"
11 7/8"	Louisiana Pacific	LPI 32	1 1/2" X 2 1/2"	22'-3"	20'-2"	19'-0"	17'-7"	24'-9"	22'-6"	21'-2"	19'-2"
	Boise LVL Flange	BCI 6000	1 1/8" X 2 5/16"	21'-7"	19'-8"	18'-7"	17'-4"	*	*	*	*
	Trus Joist	TJI 360	1 3/8" X 2 5/16"	22'-11"	20'-11"	19'-8"	18'-4"	*	*	*	*
	Bluelinx	BLI 60	1 1/2" X 2 1/2"	22'-7"	20'-8"	19'-6"	18'-2"	24'-8"	22'-6"	21'-2"	19'-7"

Simple Spans

Multiple Spans

On Center Spacing

On Center Spacing

Depth	Manufacturer	Series	Flange Size	Simple Spans				Multiple Spans			
				12"	16"	19.2"	24"	12"	16"	19.2"	24"
14"	Louisiana Pacific	LPI 32	1 1/2" X 2 1/2"	25'-2"	22'-10"	21'-6"	19'-6"	28'-0"	25'-5"	23'-7"	19'-6"
	Boise LVL Flange	BCI 6000	1 1/8" X 2 5/16"	24'-6"	22'-5"	21'-2"	19'-6"	*	*	*	*
	Trus Joist	TJI 230	1 3/8" X 2 5/16"	24'-8"	22'-6"	21'-2"	19'-9"	*	*	*	*
	Bluelinx	BLI 60	1 1/2" X 2 1/2"	25'-9"	23'-6"	22'-2"	20'-8"	28'-0"	25'-7"	24'-1"	19'-9"

Simple Spans

Multiple Spans

On Center Spacing

On Center Spacing

Depth	Manufacturer	Series	Flange Size	Simple Spans				Multiple Spans			
				12"	16"	19.2"	24"	12"	16"	19.2"	24"
16"	Louisiana Pacific	LPI 32	1 1/2" X 2 1/2"	27'-10"	25'-3"	23'-9"	19'-7"	30'-11"	27'-10"	24'-7"	19'-7"
	Boise LVL Flange	BCI 6000	1 1/2" X 2 5/16"	27'-0"	24'-9"	23'-4"	20'-10"	*	*	*	*
	Trus Joist	TJI 360	1 3/8" X 2 5/16"	28'-9"	26'-3"	24'-8"	21'-5"	*	*	*	*
	Bluelinx	BLI 60	1 1/2" X 2 1/2"	28'-6"	26'-0"	24'-7"	22'-10"	31'-1"	28'-4"	24'-9"	19'-9"

Depth	Manufacturer	Series	Flange Size	Simple Spans On Center Spacing				Multiple Spans On Center Spacing			
				12"	16"	19.2"	24"	12"	16"	19.2"	24"
14"	Louisiana Pacific	LPI 42	1 1/2" X 3 1/2"	28'-3"	25'-9"	24'-3"	22'-6"	31'-3"	28'-6"	26'-10"	25'-0"
	Boise LVL Flange	BCI 60	1 1/2" X 2 5/16"	26'-9"	24'-5"	23'-0"	21'-5"	*	*	*	*
	Bluelinx	BLI 80	1 1/2" X 3 1/2"	28'-3"	25'-9"	24'-3"	22'-7"	30'-10"	28'-0"	26'-5"	23'-11"

Depth	Manufacturer	Series	Flange Size	On Center Spacing				On Center Spacing			
				12"	16"	19.2"	24"	12"	16"	19.2"	24"
16"	Louisiana Pacific	LPI 42	1 1/2" X 3 1/2"	31'-4"	28'-6"	26'-10"	25'-0"	34'-7"	31'-7"	29'-9"	26'-1"
	Boise LVL Flange	BCI 60	1 1/2" X 2 5/16"	29'-7"	27'-0"	25'-6"	23'-5"	*	*	*	*
	Bluelinx	BLI 80	1 1/2" X 3 1/2"	31'-4"	28'-6"	26'-10"	25'-0"	34'-2"	31'-1"	29'-3"	23'-11"

Depth	Manufacturer	Series	Flange Size	Simple Spans On Center Spacing				Multiple Spans On Center Spacing			
				12"	16"	19.2"	24"	12"	16"	19.2"	24"
16	Louisiana Pacific	LPI 52	1 1/2" X 3 1/2"	32'-3"	29'-4"	27'-8"	25'-9"	35'-7"	32'-6"	30'-8"	28'-7"
	Louisiana Pacific	LPI 56	1 1/2" X 3 1/2"	33'-1"	30'-1"	28'-4"	23'-5"	36'-7"	33'-4"	29'-4"	23'-5"
	Boise LVL Flange	BCI 90	1 1/2" X 3 1/2"	33'-4"	30'-4"	28'-7"	26'-2"	*	*	*	*
	Bluelinx	BLI 900	1 1/2" X 3 1/2"	33'-1"	30'-1"	28'-4"	26'-4"	36'-1"	32'-9"	30'-10"	26'-7"

Notes:

1. Spans based on L/480 deflection and design loads of 40 PSF live and 10 PSF dead.
2. TJ does not give a multi span chart. They only show the most restrictive of simple or multi span.