

18" and 20" <u>TJI[®] 360 - TJI[®] 560</u> Joists



Featuring Silent Floor[®] Joists for Residential Applications

- Environmentally Responsible
- Uniform and Predictable

2042 SPECIFIER'S GUIDE

- Resists Bowing, Twisting, and Shrinking
- Lightweight for Fast Installation
- Significantly Reduces Callbacks
- Available in Long Lengths
- Product Warranty

1-800-628-3997 www.trusioist.com

This literature is for legacy Trus Joist® products only and is not intended for use in current specification. Visit www.woodbywy.com for the most current Trus Joist® product offering and specification information.





Why choose the Silent Floor[®] joist? Here's why so many specifiers and builders do:



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EASY INSTALLATION no surprises on the job or later on.

The same precision engineering that keeps a floor strong and quiet also makes it easier to install. The natural defects found in sawn lumber are engineered out, and dimensional stability is manufactured in.

And, at about half the weight of ordinary lumber joists, TJI® joists can be installed in a fraction of the time.

PRODUCT AVAILABILITY our nation-wide distribution system ensures on-time delivery.

With seven TJI[®] joist manufacturing plants and over 70 distribution centers located strategically across North America, we make specifying, purchasing, and installing Silent Floor[®] joists a hassle-free experience.

DESIGN FLEXIBILITY longer lengths for endless design options.

Silent Floor[®] joists are not limited by the dimensions or inconsistencies of ordinary sawn lumber. Longer uninterrupted spans with joists that won't bow, twist, or shrink means you have more design freedom than ever before.

INTEGRITY guaranteed for the lifetime of the structure.

Builders appreciate our lifetime guarantee as much as home-owners do. After 30 years and more than three million homes, we at Trus Joist have so much confidence in our Silent Floor[®] joists that we guarantee them for the life of the home.

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The residential products in this guide are intended for use in single-family dwellings and are readily available through our nationwide network of distributors and dealers. For information on using these products in multi-family dwellings, refer to *TJI® Joists for Multi-Family Applications* (Reorder 2040).

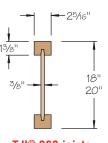
For commercial applications such as retail stores, office buildings, schools, restaurants, hotels, nursing homes, etc., please refer to the COMMERCIAL PRODUCT MANUAL or our STRUCTURAL PRODUCTS DESIGN MANUAL. Commercial products are typically designed, manufactured, and sold by Trus Joist for each specific job.

For more information on any Trus Joist product, please call **1-800-628-3997**.

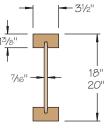
Code Evaluations: ICC-ES Legacy Report ER-4979 and ICC ESR-1153

Legacy Literature See Note on Front Cover

Not all products are available in all markets. Contact your Trus Joist representative for information.



TJI® 360 joists



TJI® 560 joists

L/480 Live Load Deflection

Depth	TJI® -	40 PSF Liv	e Load / 10 PSF	Dead Load	40 PSF Liv	e Load / 25 PSF	Dead Load
Dehm	IJ	16" o.c.	19.2" o.c.	24" o.c.	16" o.c.	19.2" o.c.	24" o.c.
18"	360	28'-8"	26'-10" ⁽¹⁾	21'-5" ⁽¹⁾	24'-9"(1)	20'-7"(1)	16'-6" ⁽¹⁾
10	560	32'-5"	30'-7"(1)	25'-2"(1)	29'-1 " ⁽¹⁾	24'-2"(1)	19'-4"(1)
20"	360	31'-0"(1)	26'-10" ⁽¹⁾	21'-5"(1)	24'-9"(1)	20'-7"(1)	16'-6" ⁽¹⁾
20	560	35'-1"	31'-6"(1)	25'-2"(1)	29'-1" ⁽¹⁾	24'-2"(1)	19'-4"(1)

L/360 Live Load Deflection (Minimum Criteria per Code)

Depth	TJI®	40 PSF Liv	e Load / 10 PSF	Dead Load	40 PSF Liv	e Load / 25 PSF	Dead Load
Dehm	I]I®	16" o.c.	19.2" o.c.	24" o.c.	16" o.c.	19.2" o.c.	24" o.c.
18"	360	31'-9" ⁽¹⁾	26'-10" ⁽¹⁾	21'-5" ⁽¹⁾	24'-9"(1)	20'-7"(1)	16'-6" ⁽¹⁾
10	560	35'-11" ⁽¹⁾	31'-6"(1)	25'-2"(1)	29'-1" ⁽¹⁾	24'-2"(1)	19'-4"(1)
20"	360	32'-3"(1)	26'-10" ⁽¹⁾	21'-5" ⁽¹⁾	24'-9"(1)	20'-7"(1)	16'-6" ⁽¹⁾
20	560	37' -10 " ⁽¹⁾	31'-6" ⁽¹⁾	25'-2"(1)	29'-1"(1)	24'-2"(1)	19'-4"(1)

Long term deflection under dead load, which includes the effect of creep, has not been considered. **Bold italic** spans reflect initial dead load deflection exceeding 0.33".

(1) Web stiffeners are required at intermediate supports of continuous span joists when the intermediate bearing length is **less** than 5¹/₄" and the span on either side of the intermediate bearing is greater than the following spans:

TJI® –	40 PSF Liv	e Load / 10 PSF	Dead Load	40 PSF Liv	e Load / 25 PSF	Dead Load						
IJI© −	16" o.c.	19.2" o.c.	24" o.c.	16" o.c.	19.2" o.c.	24" o.c.						
360	29'-4"	24'-5"	19'-6"	22'-7"	18'-9"	15'-0"						
560	35'-10"	29'-10"	23'-10"	27'-7"	22'-11"	18'-4"						

How to Use These Tables

- 1. Determine the appropriate live load deflection criteria.
- 2. Identify the live and dead load condition.
- 3. Select on-center spacing.
- 4. Scan down the column until you meet or exceed the span of your application.
- 5. Select $\mathsf{TJI}^{\textcircled{B}}$ joist and depth.

Live load deflection is not the only factor that affects how a floor will perform. To more accurately predict floor performance, use our TJ-Pro™ Rating system.

General Notes

- Tables are based on:
 - Uniform loads.
 - More restrictive of simple or continuous span.
 - Clear distance between supports (1³/₄" minimum end bearing).
- Assumed composite action with a single layer of 24" on-center span-rated, glue-nailed floor panels for deflection only. Spans shall be reduced 6" when floor panels are nailed only.
- Spans generated from Trus Joist software may exceed the spans shown in these tables because software reflects actual design conditions.
- For loading conditions not shown, refer to software or to load tables on page 10.

Design Properties

Design Properties (100% Load Duration)

			Basic Pr	operties		Re	action Propert	ies
Depth	TJI®	Joist	Maximum Resistive	Joist Only	Maximum	1¾" End		rmediate on (lbs)
-		Weight (Ibs/ft)	Moment ⁽¹⁾ (ft-lbs)	El x 10 ⁶ (lbs-in. ²)	Vertical Shear (lbs)	Reaction (lbs)	No Web Stiffeners	With Web Stiffeners
18"	360	3.7	9,465	1,085	2,425	1,080	2,460	2,815
10	560	4.8	14,550	1,631	3,030	1,265	3,000	3,475
20"	360	4.0	10,515	1,376	2,660	1,080	2,460	2,815
20	560	5.1	16.165	2.064	3.345	1.265	3.000	3.475

TJI[®] joists are intended for dry-use applications

(1) Caution: Do not increase joist moment design properties by a repetitive member use factor.

General Notes

- Design reaction includes all loads on the joist. Design shear is computed at the face of supports including all loads on the span(s). Allowable shear may sometimes be increased at interior supports in accordance with ICC ESR-1153 and these increases are reflected in span tables.
- The following formulas approximate the uniform load deflection of Δ (inches):

For TJI® 360 Joists

 $\Delta = \frac{22.5 \text{ wL}^4}{\text{EI}} + \frac{2.67 \text{ wL}^2}{\text{d x } 10^5}$

For TJI® 560 Joists

 $\Delta = \frac{22.5 \text{ wL}^4}{\text{El}} + \frac{2.29 \text{ wL}^2}{\text{d x 10}^5}$

- w = uniform load in pounds per linear foot
- L = span in feet
- d = out-to-out depth of the joist in inches
- El = value from table above

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4 Floor Performance and the TJ-Pro[™] Rating System

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IT'S ABOUT CHOICE -

The TJ-Pro[™] Rating System is a sophisticated computer model for predicting floor performance and evaluating the relationship between the cost and the "feel" of any given floor system. Its methodology is based on extensive laboratory research, more than one million installations, and the combined expertise of the best engineers in the field. TJ-Pro[™] Rating goes beyond deflection criteria to consider job-specific needs and expectations. In many cases, TJ-Pro[™] Rating will offer a system that improves performance while actually reducing costs!

TJ-PRO[™] RATING SYSTEM FEATURES:

- Works as part of Trus Joist's TJ-Beam® and TJ-Xpert® software.
- Provides a new method for accurately predicting floor performance.
- Takes perceptions of the homeowner into account.
- Provides cost comparison.

Allowable Holes

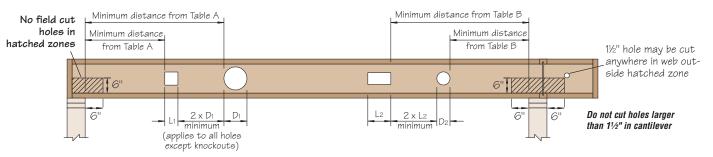


Table A—End Support Minimum distance from edge of hole to inside face of nearest end support

Donth	TII®			🔵 Ri	ound Hole	e Size				5	Square or	Rectangu	ılar Hole	Size	
Depth	TJI®	4"	6"	8"	10"	12"	15"	17"	4"	6"	8"	10"	12"	15"	17"
1.01	360	1'-0"	1'-0"	1'-0"	2'-0"	5'-0"	10'-0"		1'-0"	1'-0"	5'-0"	10'-0"	11'-0"	13'-6"	
18" -	560	1'-0"	1'-0"	1'-0"	1'-0"	5'-0"	11'-0"		1'-0"	1'-6"	6'-6"	11'-0"	12'-0"	14'-6"	
20"	360	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	7'-0"	10'-6"	1'-0"	1'-0"	2'-6"	8'-0"	11'-6"	14'-0"	15'-6"
20" -	560	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	7'-0"	11'-0"	1'-0"	1'-0"	4'-0"	9'-6"	12'-6"	14'-6"	15'-6"

Table B—Intermediate or Cantilever Support Minimum distance from edge of hole to inside face of nearest intermediate or cantilever support

Denth	TU®			🔵 Ro	ound Hole	e Size					Square or	Rectangu	ılar Hole	Size	
Depth	TJI®	4"	6"	8"	10"	12"	15"	17"	4"	6"	8"	10"	12"	15"	17"
18" -	360	1'-0"	1'-0"	3'-0"	6'-0"	9'-0"	15'-0"		1'-0"	4'-0"	9'-0"	14'-6"	16'-6"	19'-6"	
10	560	1'-0"	1'-0"	2'-0"	6'-0"	10'-0"	16'-6"		1'-0"	6'-0"	11'-6"	16'-6"	18'-0"	20'-0"	
20" -	360	1'-0"	1'-0"	1'-0"	3'-0"	6'-0"	11'-0"	15'-6"	1'-0"	1'-6"	7'-0"	12'-6"	16'-6"	19'-0"	21'-0"
20	560	1'-0"	1'-0"	1'-0"	1'-6"	5'-6"	12'-0"	16'-0"	1'-0"	3'-0"	8'-6"	14'-0"	17'-6"	19'-6"	20'-6"

Rectangular holes based on measurement of longest side.

How to Use These Tables

- Using Table A (end support) and/or Table B (intermediate or cantilever support), determine the hole shape/size and select the TJI[®] joist and depth.
- 2. Scan horizontally until you intersect the the correct hole size column.
- 3. Measurement shown is minimum distance from edge of hole to support.
- 4. Place the hole so that the required minimum distance from the end **and** the intermediate or cantilever support is maintained.

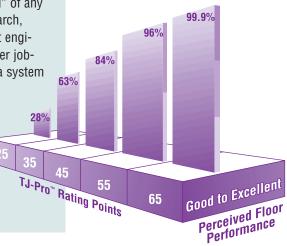
General Notes

- Holes may be located vertically anywhere within the web. Leave 1/8" of web (minimum) at top and bottom of hole.
- Knockouts are located in web at approximately 12" on-center; they do not affect hole placement.
- For simple span (5' minimum) uniformly loaded joists meeting the requirements of this guide, one maximum size round hole may be located at the center of the joist span provided no other holes occur in the joist.
- Distances are based on the maximum uniform loads shown in this guide. For other load conditions or hole configurations use TJ-Beam[®] software or contact your Trus Joist representative.

See Note on Front Cover

Legacy Literature

How do most people perceive a floor assembly with a TJ-Pro[™] Rating of 45 points? 84% find it good to excellent and 16% find it marginal to unacceptable.

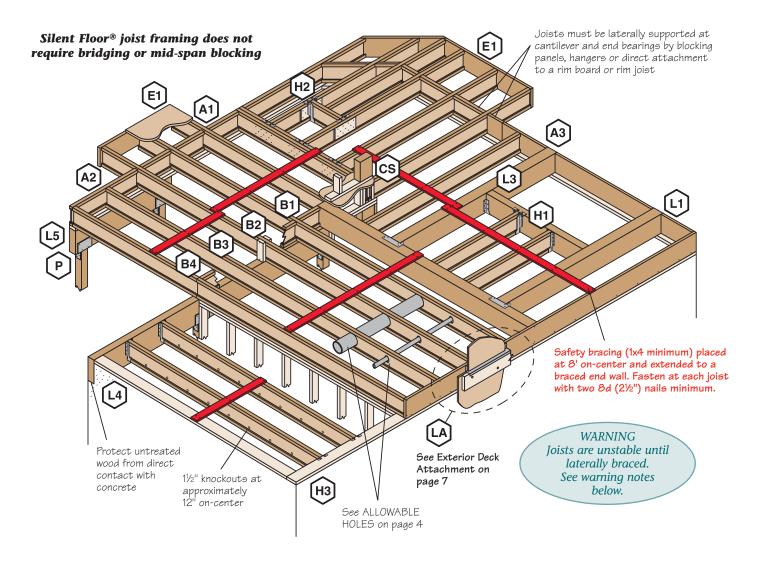


DO NOT cut or notch flange



DO NOT cut holes in cantilever reinforcement







DO NOT allow workers to walk on joists until braced. INJURY MAY RESULT.



DO NOT stack building materials on unsheathed joists. Stack only over beams or walls.

WARNING

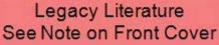
Joists are unstable until braced laterally

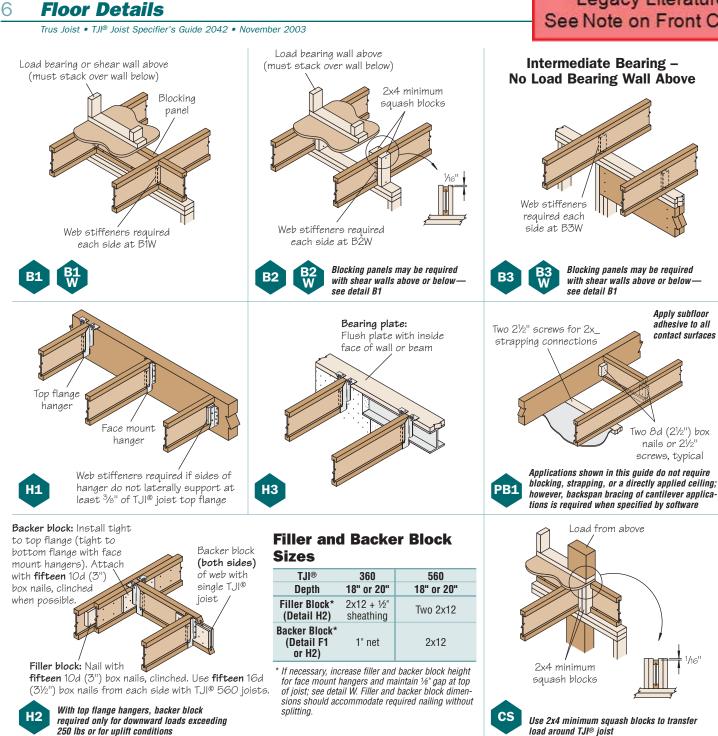
Bracing Includes:

- Blocking
- Hangers
- Rim Board
- Sheathing
- Rim Joist
- Strut Lines
- Strut Lines

WARNING NOTES: Lack of concern for proper bracing during construction can result in serious accidents. Under normal conditions if the following guidelines are observed, accidents will be avoided.

- 1. All blocking, hangers, rim boards, and rim joists at the end supports of the TJI $^{\odot}$ joists must be completely installed and properly nailed.
- 2. Lateral strength, like a braced end wall or an existing deck, must be established at the ends of the bay. This can also be accomplished by a temporary or permanent deck (sheathing) fastened to the first 4 feet of joists at the end of the bay.
- Safety bracing lines of 1x4 (minimum) must be nailed to a braced end wall or sheathed area as in note 2 and to each joist. Without this bracing, buckling sideways or rollover is highly probable under light construction loads—like a worker or one layer of unnailed sheathing.
- 4. Sheathing must be totally attached to each $\mathsf{TJI}^{\circledcirc}$ joist before additional loads can be placed on the system.
- 5. Ends of cantilevers require safety bracing on both the top and bottom flanges.





Fastening of Floor Panels to TJI[®] Joist Flanges and Trus Joist Rim Board

	Closest On-	Center Spacing per Row
Nail Size	TJI®	Trus Joist Rim Board
Nali Size	360 and 560	11⁄4"
8d (2½") box	2"	4"
8d (2½") common	2"	4"
10d (3"), 12d (3¼") box	2"	4"
10d (3"), 12d (3¼") common	3"	4"
16d (3½") common	4"	6"(1)

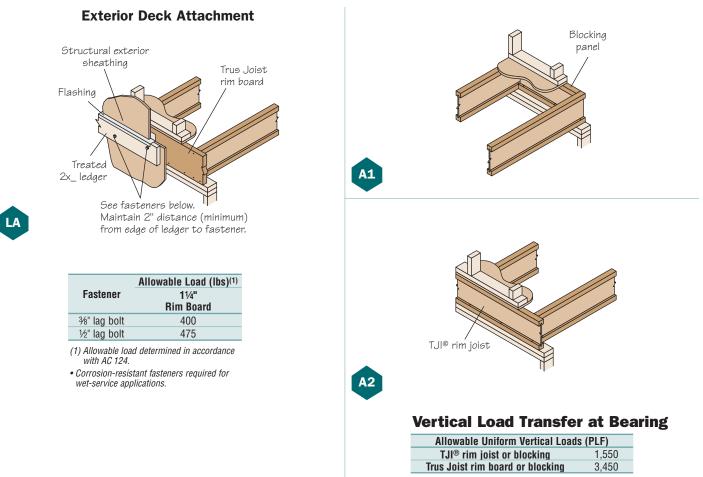
(1) Can be reduced to 4" on-center with maximum nail penetration of 13%" into the narrow edge.

General Notes

- · Maximum spacing of nails is 24" on-center.
- If more than one row of nails is used, the rows must be offset at least $\frac{1}{2}$ " and staggered.
- 14 ga. staples may be substituted for 8d (21/2") nails if minimum penetra-٠ tion of 1" is achieved.
- Table also applies for the attachment of TJI® rim joists and blocking pan-• els to the wall plate.

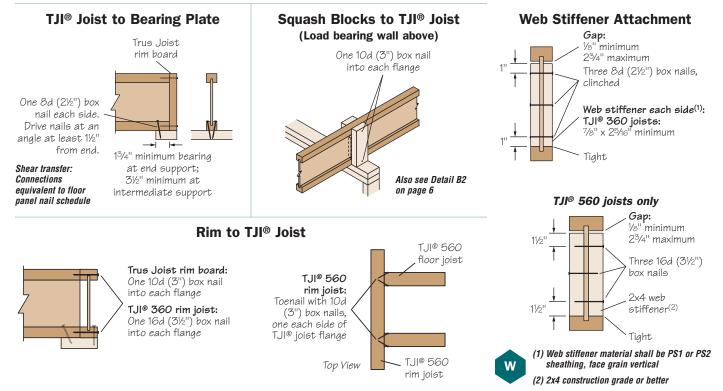
Floor Details

7

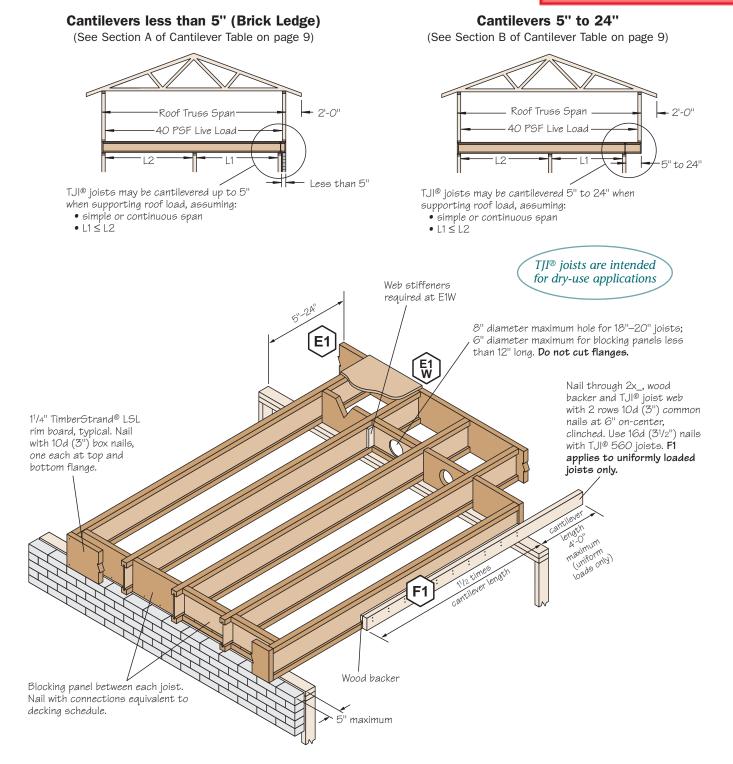


· Loads may not be increased for duration of load.

TJI® Joist Nailing Requirements at Bearing



Legacy Literature See Note on Front Cover



These Conditions Are NOT Permitted



DO NOT use sawn lumber for rim board or blocking



DO NOT install hanger overhanging face of plate or beam



Flush bearing plate with inside face of wall or beam

Cantilevers

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				Sectio	on A: Ca	antileve	ers less i	than 5"	(Brick	Ledge)				Sect	ion B: (Cantilevo	ers 5" to	o 24"		
Dauth	TU®	Roof				Roc	of Total L	oad							Roc	of Total L	.oad			
Depth	TJI®	Truss Span		35 PSF			45 PSF			55 PSF			35 PSF			45 PSF			55 PSF	
		opan				On-cent	ter Joist	Spacin	g					(On-center Joist Spacing					
			16"	19.2"	24"	16"	19.2"	24"	16"	19.2"	24"	16"	19.2"	24"	16"	19.2"	24"	16"	19.2"	24"
		24'			Х			Х		Х	Х									
		26'			Х		Х	Х		Х	Х									E1W
		28'			Х		Х	Х	Х	Х	Х									E1W
4.011		30'		Х	Х		Х	Х	Х	Х	Х						E1W			Х
18" 20"	360	32'		Х	Х	Х	Х	Х	Х	Х	Х						E1W			Х
20		34'		Х	Х	Х	Х	Х	Х	Х	Х						E1W		E1W	Х
		36'		Х	Х	Х	Х	Х	Х	Х	Х			E1W			Х		E1W	Х
		38'	Х	Х	Х	Х	Х	Х	Х	Х	Х			E1W			Х		E1W	Х
		40'	Х	Х	Х	Х	Х	Х	Х	Х	Х			E1W		E1W	Х		Х	Х
		24'						Х			Х									
		26'						Х		Х	Х									
		28'			Х			Х		Х	Х									
1.00		30'			Х		Х	Х		Х	Х									
18" 20"	560	32'			Х		Х	Х	Х	Х	Х									
20		34'			Х		Х	Х	Х	Х	Х									E1W
		36'		Х	Х		Х	Х	Х	Х	Х									E1W
		38'		Х	Х	Х	Х	Х	Х	Х	Х									E1W
		40'		Х	Х	Х	Х	Х	Х	Х	Х						E1W			Х

Cantilever Reinforcement

How to Use This Table

- 1. Identify TJI[®] joist and depth.
- 2. Locate the ROOF TRUSS SPAN (horizontal) that meets or exceeds your condition.
- Identify the cantilever condition (less than 5" or 5" to 24") and locate the ROOF TOTAL LOAD and ON-CENTER JOIST SPACING for your application.
- 4. Scan down to find the appropriate cantilever detail and refer to drawing on page 8:
 - Blank cells indicate no reinforcement is required
 - X indicates cantilever will not work. Use TJ-Beam[®] or TJ-Xpert[®] software or reduce spacing of joists and recheck table.

General Notes

- Tables are based on:
 - 15 psf roof dead load on a horizontal projection.
 - 80 plf exterior wall load with 3'-0" maximum width window or door openings. For larger openings, or multiple 3'-0" width openings spaced less than 6'-0" on-center, additional joists beneath the opening's trimmers may be required.
 - More restrictive of simple or continuous span.
 - Roof truss with 24" soffits.
- Designed for 2x4 and 2x6 plate widths.
- For conditions beyond the scope of this table, including cantilevers longer than 24", use our TJ-Beam[®] or TJ-Xpert[®] software.

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Legacy Literature See Note on Front Cover

Floor—100% (PLF)

								Joist Cle	ar Span	1					
		6)"	8	; 1	1	0'	1	2'	14	4'	1	6'	18	8'
Depth	TJI®	Live Load L/480	Total Load												
18"	360	*	320	*	241	*	193	*	162	*	139	*	121	*	108
10	560	*	390	*	294	*	236	*	197	*	169	*	148	*	132
20"	360	*	320	*	241	*	193	*	162	*	139	*	121	*	108
20	560	*	390	*	294	*	236	*	197	*	169	*	148	*	132

Floor—100% (PLF)

							Joist Cle	ear Span					
		20	0'	2	2'	2	4'	2	6'	2	8'	3	0'
Depth	TJI®	Live Load L/480	Total Load										
18"	360	*	97	*	88	76	81	61	75				
10	560	*	119	*	108	*	99	89	91	72	85	60	79
20"	360	*	97	*	88	*	81	*	75				
20	560	*	119	*	108	*	99	*	91	*	85	75	79

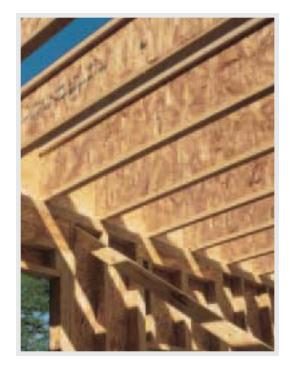
*Indicates TOTAL LOAD value controls.

How to Use These Tables

- 1. Calculate actual total and live load in pounds per linear foot (plf).
- 2. Select appropriate JOIST CLEAR SPAN.
- 3. Scan down the column to find a TJI[®] joist that meets or exceeds actual total and live loads.

General Notes

- Tables are based on:
 - Uniform loads.
 - No composite action provided by sheathing.
 - More restrictive of simple or continuous span.
- TOTAL LOAD limits joist deflection to L/240.
- LIVE LOAD is based on joist deflection of L/480.
- If a live load deflection limit of L/360 is desired, multiply value in LIVE LOAD column by 1.33. The resulting live load shall not exceed the TOTAL LOAD shown.



PSF to PLF Conversions

0.0			Load in	Pounds	Per Sq	uare Fo	Load in Pounds Per Square Foot (PSF)														
O.C Spacing -	20	25	30	35	40	45	50	55	60												
Spacing			Load in	Pounds	s Per Lii	near Fo	ot (PLF)														
12"	20	25	30	35	40	45	50	55	60												
16"	27	34	40	47	54	60	67	74	80												
19.2"	32	40	48	56	64	72	80	88	96												
24"	40	50	60	70	80	90	100	110	120												

Legacy Literature See Note on Front Cover

Framing Connectors (Simpson Strong-Tie[™]) 11

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	Single Joist—Top Flange					Singl	Single Joist—Face Mount				Face Mount Skewed 45° Joist Hanger			
Depth	n TJI®	Hanger	Capacity		ailing	Hanger	Capacity		ailing	Hanger	Capacity		ailing	
Dopti			(lbs)	Header	Joist	nungoi	(lbs)	Header	Joist	inangoi	(lbs)	Header	Joist	
18"	360	MIT3518	1,260	10d	10d x 11⁄2"	MIU2.37/18	1,260	10d	10d x 11/2"	SURI/LI3514/20	1,355	16d	10d x 11/2"	
10	560	MIT418	1,460	10d	10d x 11⁄2"	MIU418	1,460	10d	10d x 11/2"	SUR/L414	1,460	16d	10d x 11/2"	
20"	360	MIT3520	1,260	10d	10d x 11⁄2"	MIU2.37/20	1,260	10d	10d x 11/2"	SURI/LI3514/20	1,355	16d	10d x 11/2"	
20	560	MIT420	1,460	10d	10d x 11⁄2"	MIU420	1,460	10d	10d x 11/2"	SUR/L414	1,460	16d	10d x 11/2"	

		Dou	ble Joist–	Double Joist—Face Mount						
				Encorce I						
Depth	TJI®	Hanger	Capacity	Na	ailing	Hanger	Capacity	Na	ailing	
Dehm			(lbs)	Header	Joist	nanger	(lbs)	Header	Joist	
18"	360	WP3518-2	2,525	16d	10d x 11/2"	MIU4.75/18	2,525	16d	10d x 11/2"	
10	560	WPI418-2	2,925	16d	10d x 11/2"	HU414-2	2,680	16d	16d	
2011	360	WP3520-2	2,525	16d	10d x 11⁄2"	MIU4.75/20	2,525	16d	10d x 11/2"	
20"	560	WPI420-2	2,925	16d	10d x 11/2"	HU414-2	2,680	16d	16d	

Hanger information on this page was provided by either Simpson Strong-Tie™ or USP Structural Connectors™. For additional information, please refer to their literature.

Framing Connectors (USP Structural Connectors[™])

	Single Joist—Top Flange					Single Joist—Face Mount				Face Mount Skewed 45° Joist Hanger ⁽¹⁾			
Donth	TJI®	Hanger	Capacity	Na	ailing	Hanger	Capacity	Na	ailing	Hanger	Capacity	N	ailing
Depth			(lbs)	Header	Joist	панует	(lbs)	Header	Joist	Hallyei	(lbs)	Header	Joist
18"	360	TH023180	1,230	10d	10d x 11⁄2"	THF23180	1,260	10d	10d x 11/2"	SKH2324L/R	1,110	10d	10d x 11⁄2"
10	560	TH035180	1,430	10d	10d x 11⁄2"	THF17157-2	1,460	10d	10d	SKH418L/R	1,460	16d	10d
20"	360	TH023200	1,230	10d	10d x 11⁄2"	THF23180	1,260	10d	10d x 11/2"	THF23140-SK45L/R	1,260	10d	10d x 11⁄2"
20	560	TH035200	1,430	10d	10d x 11⁄2"	THF17157-2	1,460	10d	10d	SKH418L/R	1,460	16d	10d

		Dou	ble Joist-	Double Joist—Face Mount					
Depth	TJI®	Hanger	Capacity	Nailing		Hanger	Capacity	Na	iling
Dehtii		nanger	(lbs)	Header	Joist	nanger	(lbs)	Header	Joist
1.00	360	TH023180-2	2,765	16d	10d	THF23160-2	2,470	10d	10d
18"	560	BPH7118	3,185	16d	10d	HD7160	2,810	16d	10d
2011	360	TH023200-2	2,765	16d	10d	THF23160-2	2,470	10d	10d
20"	560	BPH7120	3,185	16d	10d	HD7160	2,810	16d	10d

General Notes

Bold italic hangers require web stiffeners.

Capacities will vary with different nailing criteria or other support conditions; contact your Trus Joist representative for assistance.

- Hanger capacities shown are either joist bearing capacity or hanger capacity—whichever is less. Joist end reaction must be checked to ensure it does not exceed the capacity shown in the tables.
- All capacities are for downward loads at 100% duration of load.
- Fill all round, dimple, and positive angle nail holes.
- Use sloped seat hangers and beveled web stiffeners when TJI $^{\textcircled{B}}$ joist slope exceeds $\mathcal{V}^{"}$ per foot.
- \bullet Leave ${\cal H}_6"$ clearance (${\cal H}"$ maximum) between the end of the supported joist and the header or hanger.

Support Requirements

- Support material assumed to be Trus Joist structural composite lumber or sawn lumber (Douglas fir, southern pine, or spruce-pine-fir species).
- Minimum support width for single- and double-joist top mount hangers is 3".
- Minimum support width for face mount hangers with 10d and 16d nails is 1¾" and 2", respectively.

Footnote:

1. Miter cut is required at end of joist.

Service You Can Count On

Technical	Our goal is to help you build solid, durable, and comfortable homes by providing strong technical support to specifiers, dealers, and builders located throughout North America. With a staff of over 175 Trus Joist technical representatives, we are uniquely prepared to train our partners in providing comprehensive specification and installation. We enhance our training with cutting edge automation tools; these products include:
	produces single-member sizing options in floor and roof applications for TJI® joists, Microllam® LVL, TimberStrand® LSL and Parallam® PSL beams, headers, and columns.
	tracks vertical loads throughout the structure and develops sizing solutions, material lists, framing plans, and installation details.
TJ-YardMate [™] software	

Our support doesn't stop there. Our skilled team of Trus Joist representatives—the industry's largest—isn't afraid to get involved and make things happen. If you call us with a problem that you believe may be caused by our products, our representative will contact you within one business day to evaluate the problem and help solve it—GUARANTEED.



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