

Weyerhaeuser Engineered Wood Products Quick Reference Guide for Building Officials and Building Designers

**Live (or Snow) Load = 40 psf
Dead Load = 15 psf**

Depths: 9½", 11⅞", 14", 16"

The following information is intended to assist building officials and/or building designers when reviewing specifications for Weyerhaeuser engineered wood products (EWP). Should the building official and/or building designer have any questions, please contact your local Weyerhaeuser representative.

The Trus Joist® structural composite lumber (SCL) and TJI® joist design tables contained herein were drafted to be similar to sawn lumber span tables published in Part 9 of the *National Building Code of Canada 2015* (NBC 2015) and the requisite provincial building code (e.g., ABC 2019, BCBC 2018, OBC 2012 (amended 2020)). It is the responsibility of the building official and/or building designer to confirm the as-built conditions of a Weyerhaeuser EWP member to be within the limitations of the design tables.

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If you have any questions, please contact your Weyerhaeuser representative.

Uniformly Distributed Load – Supported Length

Load Diagram:

Live (or Snow) Load = $LL = 40$ psf
 Dead Load = $DL = 15$ psf

Total Factored Design Load = $(1.25 \times DL + 1.5 \times LL)$
 $= 1.25(15 \text{ psf}) + 1.5(40 \text{ psf}) = 78.75 \text{ psf}$

$w_T = 78.75 \text{ psf} \times \text{Maximum Supported Length (ft)}$

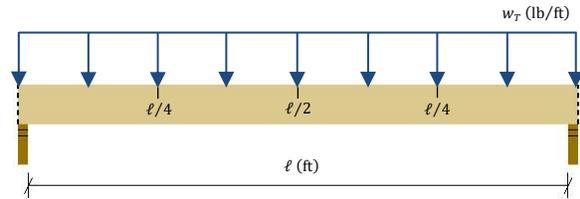


Table Footnotes – Trus Joist® SCL Maximum Supported Length

- [1] Table values apply only to simple span beams with full lateral support of the compression edge.
 - Deflection criteria = $L/360$ live load (LL); $L/240$ total load (TL).
- [2] Plate minimum bearing length of 3"; plate assumed to be SPF ($f_{cp} = 5.3 \text{ MPa} = 768.7 \text{ psi}$). Column/hanger minimum bearing length of 2".
- [3] Refer to [TJ-9500](#) (Canada-East) or [TJ-9505](#) (Canada-West) for complete design and installation information.
- [4] Maximum supported length is in reference to floors supporting residential areas as described in NBC 2015 Table 4.1.5.3; or the loading does not exceed the values specified in the load diagram.
- [5] Supported length is half the sum of the joist spans on both sides of the beam; joists must be simple span.

Table Footnotes – Trus Joist® TJI® Joist Maximum Supported Length

- [1] Table values apply only to simple span beams with full lateral support of the compression edge.
 - Deflection criteria = $L/360$ live load (LL); $L/240$ total load (TL).
- [2] Minimum bearing length of 1 $\frac{3}{4}$ " end (no web stiffeners).
- [3] Refer to [TJ-4500](#) for complete design and installation information.
- [4] Maximum supported length is in reference to floors supporting residential areas as described in NBC 2015 Table 4.1.5.3; or the loading does not exceed the values specified in the load diagram.
- [5] Supported length is half the sum of the joist spans on both sides of the beam; joists must be simple span.

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TRUS JOIST® SCL MAXIMUM SUPPORTED LENGTH^{[4][2][3]}

Product	Clear Span	Maximum Supported Length ^{[4][5]}								
		1¾" Width				3½" Width				
		9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"	
1.55E TimberStrand® LSL	6'	13'-0"	13'-0"	13'-0"	13'-0"	26'-1"	26'-0"	26'-0"	26'-0"	
	8'	9'-10"	9'-10"	9'-10"	9'-10"	19'-9"	19'-8"	19'-8"	19'-7"	
	10'	6'-1"	7'-11"	7'-11"	7'-10"	12'-3"	15'-10"	15'-9"	15'-9"	
	12'	3'-8"	6'-7"	6'-7"	6'-7"	7'-4"	13'-2"	13'-2"	13'-1"	
	14'	2'-4"	4'-6"	5'-8"	5'-7"	4'-9"	9'-0"	11'-3"	11'-3"	
	16'	-	3'-1"	4'-11"	4'-11"	3'-3"	6'-2"	9'-10"	9'-10"	
	18'	-	2'-2"	3'-7"	4'-4"	2'-4"	4'-5"	7'-1"	8'-8"	
	20'	-	-	2'-8"	3'-10"	-	3'-3"	5'-3"	7'-9"	
	22'	-	-	2'-0"	2'-11"	-	2'-6"	4'-0"	5'-11"	
			5¼" Width (2- or 3-ply)				7" Width (4-ply)			
			9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"
		6'	39'-1"	39'-1"	39'-0"	38'-11"	52'-2"	52'-1"	52'-0"	51'-11"
		8'	29'-7"	29'-6"	29'-5"	29'-5"	39'-5"	39'-4"	39'-3"	39'-2"
		10'	18'-4"	23'-8"	23'-8"	23'-7"	24'-5"	31'-7"	31'-6"	31'-5"
		12'	11'-0"	19'-9"	19'-9"	19'-8"	14'-8"	26'-4"	26'-3"	26'-3"
		14'	7'-1"	13'-6"	16'-11"	16'-10"	9'-6"	18'-1"	22'-6"	22'-6"
		16'	4'-10"	9'-3"	14'-9"	14'-9"	6'-5"	12'-4"	19'-8"	19'-8"
		18'	3'-5"	6'-7"	10'-8"	13'-1"	4'-7"	8'-10"	14'-3"	17'-5"
		20'	2'-6"	4'-11"	7'-11"	11'-7"	3'-4"	6'-6"	10'-6"	15'-6"
		22'	-	3'-8"	6'-0"	8'-10"	2'-5"	4'-11"	8'-0"	11'-10"

• See Load Diagram and Table Footnotes on page 2.

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(CONT.) TRUS JOIST® SCL MAXIMUM SUPPORTED LENGTH^{[4][2][3]}

Product	Clear Span	Maximum Supported Length ^{[4][5]}								
		1¾" Width				3½" Width (2-ply)				
		9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"	
2.0E Microllam® LVL	6'	13'-1"	13'-0"	13'-0"	13'-0"	26'-1"	26'-1"	26'-0"	26'-0"	
	8'	9'-10"	9'-10"	9'-10"	9'-10"	19'-9"	19'-8"	19'-8"	19'-7"	
	10'	7'-11"	7'-11"	7'-11"	7'-10"	15'-9"	15'-10"	15'-9"	15'-9"	
	12'	4'-9"	6'-7"	6'-7"	6'-7"	9'-6"	13'-2"	13'-2"	13'-2"	
	14'	3'-1"	5'-8"	5'-8"	5'-7"	6'-1"	11'-4"	11'-3"	11'-3"	
	16'	2'-1"	4'-0"	4'-11"	4'-11"	4'-2"	8'-0"	9'-10"	9'-10"	
	18'	-	2'-10"	4'-5"	4'-4"	3'-0"	5'-8"	8'-9"	8'-9"	
	20'	-	2'-1"	3'-5"	3'-11"	2'-2"	4'-2"	6'-10"	7'-10"	
	22'	-	-	2'-7"	3'-7"	-	3'-2"	5'-2"	7'-1"	
			5¼" Width (3-ply)				7" Width (4-ply)			
		Clear Span	9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"
		6'	39'-2"	39'-1"	39'-0"	39'-0"	52'-2"	52'-1"	52'-0"	51'-11"
		8'	29'-7"	29'-6"	29'-6"	29'-5"	39'-5"	39'-4"	39'-4"	39'-3"
		10'	23'-8"	23'-9"	23'-8"	23'-7"	31'-6"	31'-7"	31'-7"	31'-6"
		12'	14'-2"	19'-9"	19'-9"	19'-8"	18'-11"	26'-5"	26'-4"	26'-3"
		14'	9'-2"	17'-0"	16'-11"	16'-10"	12'-3"	22'-8"	22'-7"	22'-6"
		16'	6'-3"	12'-0"	14'-10"	14'-9"	8'-4"	15'-11"	19'-9"	19'-8"
		18'	4'-5"	8'-7"	13'-2"	13'-1"	5'-11"	11'-5"	17'-6"	17'-5"
		20'	3'-3"	6'-4"	10'-2"	11'-9"	4'-4"	8'-5"	13'-7"	15'-8"
	22'	2'-5"	4'-9"	7'-9"	10'-8"	3'-3"	6'-5"	10'-4"	14'-3"	

• See Load Diagram and Table Footnotes on page 2.

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(CONT.) TRUS JOIST® SCL MAXIMUM SUPPORTED LENGTH^{[4][2][3]}

Product	Clear Span	Maximum Supported Length ^{[4][5]}							
		2 ¹¹ / ₁₆ " Width				3 ¹ / ₂ " Width			
		9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"	9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"
2.0E Parallam® PSL	6'	20'-0"	20'-0"	20'-0"	19'-11"	26'-1"	26'-0"	26'-0"	26'-0"
	8'	15'-2"	15'-1"	15'-1"	15'-1"	19'-9"	19'-8"	19'-8"	19'-7"
	10'	12'-1"	12'-2"	12'-1"	12'-1"	15'-9"	15'-10"	15'-9"	15'-9"
	12'	7'-3"	10'-1"	10'-1"	10'-1"	9'-6"	13'-2"	13'-2"	13'-1"
	14'	4'-8"	8'-8"	8'-8"	8'-7"	6'-1"	11'-4"	11'-3"	11'-3"
	16'	3'-2"	6'-2"	7'-7"	7'-6"	4'-2"	8'-0"	9'-10"	9'-10"
	18'	2'-3"	4'-4"	6'-9"	6'-8"	3'-0"	5'-8"	8'-9"	8'-8"
	20'	-	3'-3"	5'-3"	6'-0"	2'-2"	4'-2"	6'-10"	7'-10"
	22'	-	2'-5"	4'-0"	5'-5"	-	3'-2"	5'-2"	7'-1"
	Clear Span	5 ¹ / ₄ " Width				7" Width			
		9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"	9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"
	6'	39'-1"	39'-1"	39'-0"	38'-11"	52'-2"	52'-1"	52'-0"	51'-11"
	8'	29'-7"	29'-6"	29'-5"	29'-5"	39'-5"	39'-4"	39'-3"	39'-2"
	10'	23'-8"	23'-8"	23'-8"	23'-7"	31'-6"	31'-7"	31'-6"	31'-5"
	12'	14'-2"	19'-9"	19'-9"	19'-8"	18'-11"	26'-4"	26'-3"	26'-3"
	14'	9'-2"	16'-11"	16'-11"	16'-10"	12'-3"	22'-7"	22'-6"	22'-6"
	16'	6'-3"	12'-0"	14'-9"	14'-9"	8'-4"	15'-11"	19'-8"	19'-8"
	18'	4'-5"	8'-7"	13'-1"	13'-1"	5'-11"	11'-5"	17'-6"	17'-5"
	20'	3'-3"	6'-4"	10'-2"	11'-9"	4'-4"	8'-5"	13'-7"	15'-8"
	22'	2'-5"	4'-9"	7'-9"	10'-8"	3'-3"	6'-5"	10'-4"	14'-2"

• See Load Diagram and Table Footnotes on page 2.

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(CONT.) TRUS JOIST® SCL MAXIMUM SUPPORTED LENGTH¹[[2]][3]

Product	Clear Span	Maximum Supported Length ⁴ [[5]							
		2 ¹¹ / ₁₆ " Width				3 ¹ / ₂ " Width			
		9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"	9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"
2.2E Parallam® PSL	6'	-	-	-	-	25'-8"	25'-7"	25'-7"	25'-7"
	8'	-	-	-	-	19'-5"	19'-4"	19'-4"	19'-3"
	10'	-	-	-	-	15'-7"	15'-7"	15'-6"	15'-6"
	12'	-	-	-	-	10'-5"	13'-0"	12'-11"	12'-11"
	14'	-	-	-	-	6'-9"	11'-1"	11'-1"	11'-1"
	16'	-	-	-	-	4'-7"	8'-9"	9'-8"	9'-8"
	18'	-	-	-	-	3'-3"	6'-3"	8'-7"	8'-7"
	20'	-	-	-	-	2'-5"	4'-7"	7'-6"	7'-8"
	22'	-	-	-	-	-	3'-6"	5'-8"	7'-0"
	Clear Span	5 ¹ / ₄ " Width				7" Width			
		9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"	9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"
	6'	38'-6"	38'-5"	38'-5"	38'-4"	51'-4"	51'-3"	51'-2"	51'-1"
	8'	29'-1"	29'-0"	29'-0"	28'-11"	38'-10"	38'-9"	38'-8"	38'-7"
	10'	23'-5"	23'-4"	23'-3"	23'-2"	31'-2"	31'-1"	31'-0"	30'-11"
	12'	15'-7"	19'-5"	19'-5"	19'-4"	20'-10"	25'-11"	25'-10"	25'-10"
	14'	10'-1"	16'-8"	16'-8"	16'-7"	13'-5"	22'-3"	22'-2"	22'-1"
	16'	6'-10"	13'-2"	14'-6"	14'-6"	9'-2"	17'-7"	19'-5"	19'-4"
	18'	4'-11"	9'-5"	12'-11"	12'-10"	6'-6"	12'-6"	17'-2"	17'-2"
	20'	3'-7"	6'-11"	11'-3"	11'-6"	4'-10"	9'-3"	14'-11"	15'-5"
22'	2'-8"	5'-3"	8'-6"	10'-6"	3'-7"	7'-0"	11'-4"	13'-11"	

• See Load Diagram and Table Footnotes on page 2.

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TRUS JOIST® TJI® JOIST MAXIMUM SUPPORTED LENGTH^{[1][2][3]}

TJI® Series	Clear Span	Maximum Supported Length ^{[4][5]}							
		(1-ply)				(2-ply)			
		9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"
TJI® 110	2'	16'-11"	16'-11"	16'-11"	-	28'-7"	28'-7"	28'-7"	-
	4'	8'-9"	8'-9"	8'-9"	-	14'-9"	14'-9"	14'-9"	-
	6'	5'-11"	5'-11"	5'-11"	-	9'-11"	9'-11"	9'-11"	-
	8'	4'-5"	4'-5"	4'-5"	-	7'-6"	7'-6"	7'-5"	-
	10'	3'-7"	3'-7"	3'-7"	-	6'-0"	6'-0"	6'-0"	-
	12'	2'-10"	3'-0"	2'-11"	-	5'-0"	5'-0"	5'-0"	-
TJI® 210	Clear Span	(1-ply)				(2-ply)			
		9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"
	2'	18'-9"	18'-9"	18'-9"	18'-8"	28'-7"	28'-7"	28'-7"	30'-9"
	4'	9'-8"	9'-8"	9'-8"	9'-8"	14'-9"	14'-9"	14'-9"	15'-11"
	6'	6'-6"	6'-6"	6'-6"	6'-6"	9'-11"	9'-11"	9'-11"	10'-8"
	8'	4'-11"	4'-11"	4'-11"	4'-11"	7'-6"	7'-5"	7'-5"	8'-0"
	10'	3'-11"	3'-11"	3'-11"	3'-11"	6'-0"	6'-0"	6'-0"	6'-5"
12'	3'-3"	3'-3"	3'-3"	3'-3"	5'-0"	5'-0"	5'-0"	5'-4"	
TJI® 230	Clear Span	(1-ply)				(2-ply)			
		9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"
	2'	19'-9"	19'-9"	19'-9"	19'-9"	28'-7"	28'-7"	28'-6"	28'-6"
	4'	10'-3"	10'-3"	10'-3"	10'-2"	14'-9"	14'-9"	14'-9"	14'-9"
	6'	6'-11"	6'-10"	6'-10"	6'-10"	9'-11"	9'-11"	9'-11"	9'-11"
	8'	5'-2"	5'-2"	5'-2"	5'-2"	7'-6"	7'-5"	7'-5"	7'-5"
	10'	4'-2"	4'-2"	4'-2"	4'-2"	6'-0"	6'-0"	5'-11"	5'-11"
12'	3'-6"	3'-5"	3'-5"	3'-5"	5'-0"	5'-0"	4'-11"	4'-11"	

• See Load Diagram and Table Footnotes on page 2.

(CONT.) TRUS JOIST® TJI® JOIST MAXIMUM SUPPORTED LENGTH^{[1][2][3]}

TJI® Series	Clear Span	Maximum Supported Length ^{[4][5]}							
		(1-ply)				(2-ply)			
		9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"
TJI® 360	2'	20'-0"	19'-11"	19'-11"	19'-11"	28'-7"	28'-7"	28'-6"	28'-6"
	4'	10'-4"	10'-4"	10'-4"	10'-4"	14'-9"	14'-9"	14'-9"	14'-9"
	6'	6'-11"	6'-11"	6'-11"	6'-11"	9'-11"	9'-11"	9'-11"	9'-11"
	8'	5'-3"	5'-3"	5'-3"	5'-3"	7'-6"	7'-5"	7'-5"	7'-5"
	10'	4'-2"	4'-2"	4'-2"	4'-2"	6'-0"	6'-0"	5'-11"	5'-11"
	12'	3'-6"	3'-6"	3'-6"	3'-6"	5'-0"	5'-0"	4'-11"	4'-11"
TJI® 560	Clear Span	(1-ply)				(2-ply)			
		9½"	11⅞"	9½"	11⅞"	9½"	11⅞"	9½"	11⅞"
	2'	19'-11"	19'-11"	19'-11"	19'-10"	34'-8"	34'-8"	34'-8"	34'-8"
	4'	10'-3"	10'-3"	10'-3"	10'-3"	17'-11"	17'-11"	17'-11"	17'-10"
	6'	6'-11"	6'-11"	6'-11"	6'-11"	12'-0"	12'-0"	12'-0"	12'-0"
	8'	5'-2"	5'-2"	5'-2"	5'-2"	9'-1"	9'-0"	9'-0"	9'-0"
	10'	4'-2"	4'-2"	4'-2"	4'-2"	7'-3"	7'-3"	7'-3"	7'-3"
12'	3'-6"	3'-6"	3'-5"	3'-5"	6'-0"	6'-0"	6'-0"	6'-0"	

• See Load Diagram and Table Footnotes on page 2.

Concentrated Load – End-Span to Quarter-Span

Load Diagram:

Live (or Snow) Load = $LL = 40$ psf
Dead Load = $DL = 15$ psf

Total Factored Design Load = $(1.25 \times DL + 1.5 \times LL)$
= $1.25(15 \text{ psf}) + 1.5(40 \text{ psf}) = 78.75$ psf

$w_T = 78.75 \text{ psf} \times 2 \text{ ft} = 157.5$ lb/ft

$P_T = 78.75 \text{ psf} \times \text{Design Load Area (ft}^2\text{)}$

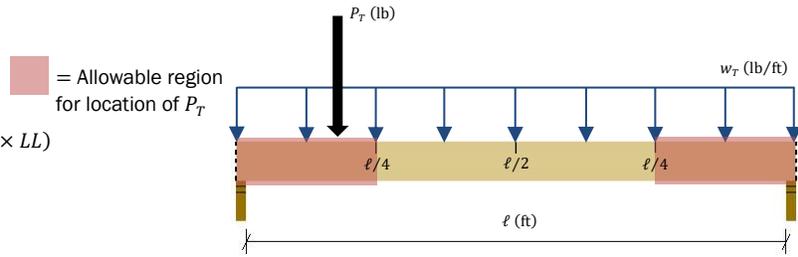


Table Footnotes – Trus Joist® SCL Maximum Factored Concentrated Load – End-Span to Quarter-Span

- [1] Table values apply only to simple span beams with full lateral support of the compression edge.
- Deflection criteria = $L/360$ live load (LL); $L/240$ total load (TL).
- [2] Location (x) of concentrated load: inside face of support $\leq x \leq$ quarter-point of clear span (i.e., shaded region in the load diagram).
- [3] Plate minimum bearing length of 3"; plate assumed to be SPF ($f_{cp} = 5.3 \text{ MPa} = 768.7 \text{ psi}$). Column/hanger minimum bearing length of 2".
- [4] Refer to [TJ-9500](#) (Canada-East) or [TJ-9505](#) (Canada-West) for complete design and installation information.
- [5] Beam also supports a maximum 24" tributary floor load as described by the load diagram.
- [6] Design load area is in reference to floors supporting residential areas as described in NBC 2015 Table 4.1.5.3; or the loading does not exceed the values specified in the load diagram.

Table Footnotes – Trus Joist® TJI® Joist Maximum Factored Concentrated Load – End-Span to Quarter-Span

- [1] Table values apply only to simple span beams with full lateral support of the compression edge.
- Deflection criteria = $L/360$ live load (LL); $L/240$ total load (TL).
- [2] Location (x) of concentrated load: inside face of support $\leq x \leq$ quarter-point of clear span (i.e., shaded region in the load diagram).
- [3] Minimum bearing length of 1¾" end (no web stiffeners).
- [4] Refer to [TJ-4500](#) for complete design and installation information.
- [5] Beam also supports a maximum 24" tributary floor load as described by the load diagram.
- [6] Design load area is in reference to floors supporting residential areas as described in NBC 2015 Table 4.1.5.3; or the loading does not exceed the values specified in the load diagram.

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TRUS JOIST® SCL MAXIMUM FACTORED CONCENTRATED LOAD – END-SPAN TO QUARTER-SPAN^{[1][2][3][4]}

Product	Clear Span	Maximum Factored Concentrated Load ^[5] Design Load Area ^[6] (ft ²)								
		1¾" Width				3½" Width				
		9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"	
1.55E TimberStrand® LSL	6'	2,715 (34)	2,710 (34)	2,705 (34)	2,700 (34)	5,925 (75)	5,915 (75)	5,900 (75)	5,865 (74)	
	8'	2,550 (32)	2,545 (32)	2,540 (32)	2,535 (32)	5,755 (73)	5,740 (73)	5,730 (73)	5,715 (73)	
	10'	2,390 (30)	2,380 (30)	2,370 (30)	2,365 (30)	5,585 (71)	5,565 (71)	5,550 (71)	5,540 (70)	
	12'	1,390 (18)	2,215 (28)	2,205 (28)	2,195 (28)	4,440 (56)	5,395 (68)	5,375 (68)	5,360 (68)	
	14'	360 (5)	2,050 (26)	2,040 (26)	2,030 (26)	2,670 (34)	5,220 (66)	5,200 (66)	5,180 (66)	
	16'	- -	1,210 (15)	1,870 (24)	1,860 (24)	1,370 (17)	4,645 (59)	5,020 (64)	5,000 (63)	
	18'	- -	260 (3)	1,705 (22)	1,690 (21)	370 (5)	3,025 (38)	4,845 (62)	4,820 (61)	
	20'	- -	- -	880 (11)	1,520 (19)	- -	1,755 (22)	4,535 (58)	4,640 (59)	
	22'	- -	- -	- -	1,355 (17)	- -	705 (9)	3,070 (39)	4,460 (57)	
			5¼" Width (2- or 3-ply)				7" Width (4-ply)			
			9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"
		6'	9,015 (114)	8,975 (114)	8,940 (114)	8,900 (113)	12,065 (153)	12,020 (153)	11,980 (152)	11,940 (152)
		8'	8,955 (114)	8,935 (113)	8,915 (113)	8,900 (113)	12,065 (153)	12,020 (153)	11,980 (152)	11,940 (152)
		10'	8,780 (111)	8,755 (111)	8,730 (111)	8,710 (111)	11,975 (152)	11,940 (152)	11,910 (151)	11,885 (151)
		12'	7,495 (95)	8,570 (109)	8,545 (109)	8,520 (108)	10,550 (134)	11,750 (149)	11,715 (149)	11,680 (148)
		14'	4,975 (63)	8,390 (107)	8,360 (106)	8,330 (106)	7,285 (93)	11,560 (147)	11,520 (146)	11,480 (146)
		16'	3,175 (40)	8,075 (103)	8,170 (104)	8,140 (103)	4,980 (63)	11,370 (144)	11,325 (144)	11,280 (143)
		18'	1,820 (23)	5,790 (74)	7,985 (101)	7,950 (101)	3,265 (41)	8,555 (109)	11,130 (141)	11,080 (141)
	20'	675 (9)	4,030 (51)	7,800 (99)	7,760 (99)	1,830 (23)	6,300 (80)	10,930 (139)	10,875 (138)	
	22'	- -	2,595 (33)	6,135 (78)	7,570 (96)	635 (8)	4,485 (57)	9,200 (117)	10,675 (136)	

• See Load Diagram and Table Footnotes on page 9.

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(CONT.) TRUS JOIST® SCL MAXIMUM FACTORED CONCENTRATED LOAD – END-SPAN TO QUARTER-SPAN^{[1][2][3][4]}

Product	Clear Span	Maximum Factored Concentrated Load ^[5] (lb) Design Load Area ^[6] (ft ²)								
		1¾" Width				3½" Width (2-ply)				
		9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"	
2.0E Microllam® LVL	6'	2,420 (31)	2,385 (30)	2,355 (30)	2,325 (30)	4,960 (63)	4,925 (63)	4,890 (62)	4,860 (62)	
	8'	2,420 (31)	2,385 (30)	2,355 (30)	2,325 (30)	4,960 (63)	4,925 (63)	4,890 (62)	4,860 (62)	
	10'	2,390 (30)	2,380 (30)	2,355 (30)	2,325 (30)	4,960 (63)	4,925 (63)	4,890 (62)	4,860 (62)	
	12'	2,225 (28)	2,215 (28)	2,210 (28)	2,200 (28)	4,960 (63)	4,925 (63)	4,890 (62)	4,860 (62)	
	14'	1,030 (13)	2,050 (26)	2,045 (26)	2,035 (26)	4,010 (51)	4,925 (63)	4,890 (62)	4,860 (62)	
	16'	- -	1,885 (24)	1,875 (24)	1,865 (24)	2,420 (31)	4,925 (63)	4,890 (62)	4,860 (62)	
	18'	- -	1,060 (13)	1,710 (22)	1,700 (22)	1,210 (15)	4,630 (59)	4,855 (62)	4,835 (61)	
	20'	- -	- -	1,545 (20)	1,530 (19)	250 (3)	3,075 (39)	4,680 (59)	4,655 (59)	
	22'	- -	- -	890 (11)	1,360 (17)	- -	1,825 (23)	4,505 (57)	4,480 (57)	
			5¼" Width (3-ply)				7" Width (4-ply)			
			9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"
		6'	7,505 (95)	7,465 (95)	7,430 (94)	7,395 (94)	10,050 (128)	10,005 (127)	9,965 (127)	9,930 (126)
		8'	7,505 (95)	7,465 (95)	7,430 (94)	7,395 (94)	10,050 (128)	10,005 (127)	9,965 (127)	9,930 (126)
		10'	7,505 (95)	7,465 (95)	7,430 (94)	7,395 (94)	10,050 (128)	10,005 (127)	9,965 (127)	9,930 (126)
		12'	7,505 (95)	7,465 (95)	7,430 (94)	7,395 (94)	10,050 (128)	10,005 (127)	9,965 (127)	9,930 (126)
		14'	6,990 (89)	7,465 (95)	7,430 (94)	7,395 (94)	9,970 (127)	10,005 (127)	9,965 (127)	9,930 (126)
		16'	4,745 (60)	7,465 (95)	7,430 (94)	7,395 (94)	7,075 (90)	10,005 (127)	9,965 (127)	9,930 (126)
		18'	3,075 (39)	7,465 (95)	7,430 (94)	7,395 (94)	4,940 (63)	10,005 (127)	9,965 (127)	9,930 (126)
		20'	1,780 (23)	6,005 (76)	7,430 (94)	7,395 (94)	3,305 (42)	8,940 (114)	9,965 (127)	9,930 (126)
		22'	670 (9)	4,280 (54)	7,430 (94)	7,395 (94)	1,925 (24)	6,730 (85)	9,965 (127)	9,930 (126)

• See Load Diagram and Table Footnotes on page 9.

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February 2024 (Expires 2/2026)

(CONT.) TRUS JOIST® SCL MAXIMUM FACTORED CONCENTRATED LOAD – END-SPAN TO QUARTER-SPAN^{[1][2][3][4]}

Product	Clear Span	Maximum Factored Concentrated Load ^[5] (lb) Design Load Area ^[6] (ft ²)							
		2 ¹¹ / ₁₆ " Width				3 ¹ / ₂ " Width			
		9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"	9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"
2.0E Parallam® PSL	6'	3,780 (48)	3,745 (48)	3,710 (47)	3,680 (47)	4,960 (63)	4,925 (63)	4,890 (62)	4,855 (62)
	8'	3,780 (48)	3,745 (48)	3,710 (47)	3,680 (47)	4,960 (63)	4,925 (63)	4,890 (62)	4,855 (62)
	10'	3,780 (48)	3,745 (48)	3,710 (47)	3,680 (47)	4,960 (63)	4,925 (63)	4,890 (62)	4,855 (62)
	12'	3,780 (48)	3,745 (48)	3,710 (47)	3,680 (47)	4,960 (63)	4,925 (63)	4,890 (62)	4,855 (62)
	14'	2,625 (33)	3,745 (48)	3,710 (47)	3,680 (47)	4,010 (51)	4,925 (63)	4,890 (62)	4,855 (62)
	16'	1,340 (17)	3,575 (45)	3,560 (45)	3,540 (45)	2,420 (31)	4,925 (63)	4,890 (62)	4,855 (62)
	18'	345 (4)	2,975 (38)	3,385 (43)	3,370 (43)	1,210 (15)	4,630 (59)	4,845 (62)	4,820 (61)
	20'	- -	1,715 (22)	3,215 (41)	3,195 (41)	250 (3)	3,075 (39)	4,670 (59)	4,640 (59)
	22'	- -	690 (9)	3,010 (38)	3,020 (38)	- -	1,825 (23)	4,490 (57)	4,460 (57)
	Clear Span	5 ¹ / ₄ " Width				7" Width			
		9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"	9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"
	6'	7,505 (95)	7,465 (95)	7,425 (94)	7,390 (94)	10,045 (128)	10,005 (127)	9,965 (127)	9,925 (126)
	8'	7,505 (95)	7,465 (95)	7,425 (94)	7,390 (94)	10,045 (128)	10,005 (127)	9,965 (127)	9,925 (126)
	10'	7,505 (95)	7,465 (95)	7,425 (94)	7,390 (94)	10,045 (128)	10,005 (127)	9,965 (127)	9,925 (126)
	12'	7,505 (95)	7,465 (95)	7,425 (94)	7,390 (94)	10,045 (128)	10,005 (127)	9,965 (127)	9,925 (126)
	14'	6,990 (89)	7,465 (95)	7,425 (94)	7,390 (94)	9,970 (127)	10,005 (127)	9,965 (127)	9,925 (126)
	16'	4,745 (60)	7,465 (95)	7,425 (94)	7,390 (94)	7,075 (90)	10,005 (127)	9,965 (127)	9,925 (126)
	18'	3,075 (39)	7,465 (95)	7,425 (94)	7,390 (94)	4,940 (63)	10,005 (127)	9,965 (127)	9,925 (126)
	20'	1,780 (23)	6,005 (76)	7,425 (94)	7,390 (94)	3,305 (42)	8,940 (114)	9,965 (127)	9,925 (126)
	22'	640 (8)	4,280 (54)	7,425 (94)	7,390 (94)	1,885 (24)	6,730 (85)	9,965 (127)	9,925 (126)

• See Load Diagram and Table Footnotes on page 9.

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(CONT.) TRUS JOIST® SCL MAXIMUM FACTORED CONCENTRATED LOAD – END-SPAN TO QUARTER-SPAN^{[1][2][3][4]}

Product	Clear Span	Maximum Factored Concentrated Load ^[5] (lb) Design Load Area ^[6] (ft ²)								
		2 ¹¹ / ₁₆ " Width				3 ¹ / ₂ " Width				
		9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"	9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"	
2.2E Parallam® PSL	6'	-	-	-	-	4,100	4,065	4,030	4,000	
		-	-	-	-	(52)	(52)	(51)	(51)	
		8'	-	-	-	-	4,100	4,065	4,030	4,000
			-	-	-	-	(52)	(52)	(51)	(51)
		10'	-	-	-	-	4,100	4,065	4,030	4,000
			-	-	-	-	(52)	(52)	(51)	(51)
		12'	-	-	-	-	4,100	4,065	4,030	4,000
			-	-	-	-	(52)	(52)	(51)	(51)
		14'	-	-	-	-	4,100	4,065	4,030	4,000
			-	-	-	-	(52)	(52)	(51)	(51)
	16'	-	-	-	-	2,885	4,065	4,030	4,000	
		-	-	-	-	(37)	(52)	(51)	(51)	
	18'	-	-	-	-	1,585	4,065	4,030	4,000	
		-	-	-	-	(20)	(52)	(51)	(51)	
	20'	-	-	-	-	555	3,660	4,030	4,000	
		-	-	-	-	(7)	(46)	(51)	(51)	
	22'	-	-	-	-	-	2,315	4,030	4,000	
		-	-	-	-	-	(29)	(51)	(51)	
	2.2E Parallam® PSL	Clear Span	5 ¹ / ₄ " Width				7" Width			
			9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"	9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"
6'		6,215	6,175	6,140	6,100	8,330	8,285	8,245	8,205	
		(79)	(78)	(78)	(77)	(106)	(105)	(105)	(104)	
8'		6,215	6,175	6,140	6,100	8,330	8,285	8,245	8,205	
		(79)	(78)	(78)	(77)	(106)	(105)	(105)	(104)	
10'		6,215	6,175	6,140	6,100	8,330	8,285	8,245	8,205	
		(79)	(78)	(78)	(77)	(106)	(105)	(105)	(104)	
12'		6,215	6,175	6,140	6,100	8,330	8,285	8,245	8,205	
		(79)	(78)	(78)	(77)	(106)	(105)	(105)	(104)	
14'		6,215	6,175	6,140	6,100	8,330	8,285	8,245	8,205	
		(79)	(78)	(78)	(77)	(106)	(105)	(105)	(104)	
16'		5,445	6,175	6,140	6,100	8,005	8,285	8,245	8,205	
	(69)	(78)	(78)	(77)	(102)	(105)	(105)	(104)		
18'	3,635	6,175	6,140	6,100	5,690	8,285	8,245	8,205		
	(46)	(78)	(78)	(77)	(72)	(105)	(105)	(104)		
20'	2,235	6,175	6,140	6,100	3,915	8,285	8,245	8,205		
	(28)	(78)	(78)	(77)	(50)	(105)	(105)	(104)		
22'	1,060	5,015	6,140	6,100	2,440	7,710	8,245	8,205		
	(13)	(64)	(78)	(77)	(31)	(98)	(105)	(104)		

• See Load Diagram and Table Footnotes on page 9.

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TRUS JOIST® TJI® JOIST MAXIMUM FACTORED CONCENTRATED LOAD – END-SPAN TO QUARTER-SPAN^{[1][2][3][4]}

TJI® Series	Clear Span	Maximum Factored Concentrated Load ^[5] (lb) Design Load Area ^[6] (ft ²)							
		(1-ply)				(2-ply)			
		9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"
TJI® 110	6'	940 (12)	940 (12)	940 (12)	- -	1,920 (24)	1,915 (24)	1,915 (24)	- -
	8'	780 (10)	780 (10)	780 (10)	- -	1,755 (22)	1,755 (22)	1,750 (22)	- -
	10'	620 (8)	620 (8)	620 (8)	- -	1,590 (20)	1,590 (20)	1,585 (20)	- -
	12'	460 (6)	460 (6)	455 (6)	- -	1,430 (18)	1,425 (18)	1,420 (18)	- -
	14'	- -	300 (4)	295 (4)	- -	1,265 (16)	1,260 (16)	1,255 (16)	- -
	16'	- -	- -	- -	- -	630 (8)	1,100 (14)	1,090 (14)	- -
	18'	- -	- -	- -	- -	- -	935 (12)	930 (12)	- -
	20'	- -	- -	- -	- -	- -	375 (5)	765 (10)	- -
	22'	- -	- -	- -	- -	- -	- -	565 (7)	- -
TJI® 210	6'	1,090 (14)	1,090 (14)	1,090 (14)	1,090 (14)	1,915 (24)	1,915 (24)	1,910 (24)	2,100 (27)
	8'	930 (12)	930 (12)	930 (12)	925 (12)	1,750 (22)	1,750 (22)	1,745 (22)	1,935 (25)
	10'	770 (10)	770 (10)	765 (10)	765 (10)	1,590 (20)	1,585 (20)	1,580 (20)	1,770 (22)
	12'	610 (8)	605 (8)	605 (8)	605 (8)	1,425 (18)	1,420 (18)	1,415 (18)	1,605 (20)
	14'	- -	445 (6)	445 (6)	440 (6)	1,260 (16)	1,255 (16)	1,250 (16)	1,440 (18)
	16'	- -	285 (4)	280 (4)	280 (4)	1,095 (14)	1,090 (14)	1,085 (14)	1,270 (16)
	18'	- -	- -	- -	- -	- -	930 (12)	920 (12)	1,105 (14)
	20'	- -	- -	- -	- -	- -	765 (10)	755 (10)	940 (12)
	22'	- -	- -	- -	- -	- -	- -	590 (7)	775 (10)

• See Load Diagram and Table Footnotes on page 9.

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(CONT.) TRUS JOIST® TJI® JOIST MAXIMUM FACTORED CONCENTRATED LOAD – END-SPAN TO QUARTER-SPAN^{[1][2][3][4]}

TJI® Series	Clear Span	Maximum Factored Concentrated Load ^[5] (lb) Design Load Area ^[6] (ft ²)							
		(1-ply)				(2-ply)			
		9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"
TJI® 230	6'	1,180 (15)	1,180 (15)	1,180 (15)	1,180 (15)	1,915 (24)	1,915 (24)	1,910 (24)	1,910 (24)
	8'	1,020 (13)	1,020 (13)	1,015 (13)	1,015 (13)	1,750 (22)	1,750 (22)	1,745 (22)	1,745 (22)
	10'	860 (11)	855 (11)	855 (11)	855 (11)	1,585 (20)	1,585 (20)	1,580 (20)	1,575 (20)
	12'	700 (9)	695 (9)	695 (9)	690 (9)	1,425 (18)	1,420 (18)	1,415 (18)	1,410 (18)
	14'	370 (5)	535 (7)	530 (7)	530 (7)	1,260 (16)	1,255 (16)	1,250 (16)	1,245 (16)
	16'	- -	375 (5)	370 (5)	370 (5)	1,095 (14)	1,090 (14)	1,080 (14)	1,080 (14)
	18'	- -	- -	- -	- -	455 (6)	925 (12)	915 (12)	910 (12)
	20'	- -	- -	- -	- -	- -	760 (10)	750 (10)	745 (9)
	22'	- -	- -	- -	- -	- -	320 (4)	585 (7)	580 (7)
TJI® 360	6'	1,195 (15)	1,195 (15)	1,195 (15)	1,195 (15)	1,915 (24)	1,915 (24)	1,910 (24)	1,910 (24)
	8'	1,035 (13)	1,035 (13)	1,030 (13)	1,030 (13)	1,750 (22)	1,750 (22)	1,745 (22)	1,745 (22)
	10'	875 (11)	870 (11)	870 (11)	870 (11)	1,585 (20)	1,585 (20)	1,580 (20)	1,575 (20)
	12'	715 (9)	710 (9)	710 (9)	705 (9)	1,425 (18)	1,420 (18)	1,415 (18)	1,410 (18)
	14'	550 (7)	550 (7)	545 (7)	545 (7)	1,260 (16)	1,255 (16)	1,250 (16)	1,245 (16)
	16'	- -	390 (5)	385 (5)	385 (5)	1,095 (14)	1,090 (14)	1,080 (14)	1,080 (14)
	18'	- -	- -	- -	- -	930 (12)	925 (12)	915 (12)	910 (12)
	20'	- -	- -	- -	- -	- -	760 (10)	750 (10)	745 (9)
	22'	- -	- -	- -	- -	- -	595 (8)	585 (7)	580 (7)

• See Load Diagram and Table Footnotes on page 9.

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February 2024 (Expires 2/2026)

(CONT.) TRUS JOIST® TJI® JOIST MAXIMUM FACTORED CONCENTRATED LOAD – END-SPAN TO QUARTER-SPAN^{[1][2][3][4]}

TJI® Series	Clear Span	Maximum Factored Concentrated Load ^[5] (lb) Design Load Area ^[6] (ft ²)							
		(1-ply)				(2-ply)			
		9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"
TJI® 560	6'	1,185 (15)	1,185 (15)	1,185 (15)	1,185 (15)	2430 (31)	2425 (31)	2425 (31)	2420 (31)
	8'	1,025 (13)	1,025 (13)	1,020 (13)	1,020 (13)	2,260 (29)	2,260 (29)	2,255 (29)	2,255 (29)
	10'	865 (11)	860 (11)	860 (11)	855 (11)	2,095 (27)	2,090 (27)	2,090 (27)	2,085 (26)
	12'	700 (9)	700 (9)	695 (9)	695 (9)	1,930 (24)	1,925 (24)	1,920 (24)	1,915 (24)
	14'	540 (7)	535 (7)	535 (7)	530 (7)	1,760 (22)	1,755 (22)	1,750 (22)	1,745 (22)
	16'	375 (5)	375 (5)	370 (5)	370 (5)	1,595 (20)	1,590 (20)	1,585 (20)	1,580 (20)
	18'	- -	- -	- -	- -	1,430 (18)	1,420 (18)	1,415 (18)	1,410 (18)
	20'	- -	- -	- -	- -	1,265 (16)	1,255 (16)	1,250 (16)	1,240 (16)
	22'	- -	- -	- -	- -	575 (7)	1,085 (14)	1,080 (14)	1,070 (14)

• See **Load Diagram** and **Table Footnotes** on page 9.

Concentrated Load – Quarter-Span to Mid-Span

Load Diagram:

Live (or Snow) Load = $LL = 40$ psf
 Dead Load = $DL = 15$ psf

Total Factored Design Load = $(1.25 \times DL + 1.5 \times LL)$
 $= 1.25(15 \text{ psf}) + 1.5(40 \text{ psf}) = 78.75 \text{ psf}$

$w_T = 78.75 \text{ psf} \times 2 \text{ ft} = 157.5 \text{ lb/ft}$

$P_T = 78.75 \text{ psf} \times \text{Design Load Area (ft}^2\text{)}$

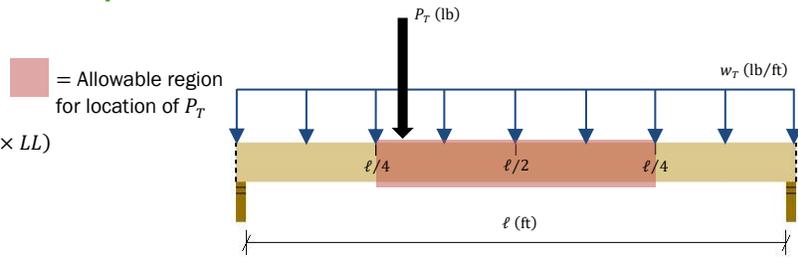


Table Footnotes – Trus Joist® SCL Maximum Factored Concentrated Load –Quarter-Span to End-Span

- [1] Table values apply only to simple span beams with full lateral support of the compression edge.
 - Deflection criteria = $L/360$ live load (LL); $L/240$ total load (TL).
- [2] Location (x) of concentrated load: quarter-point of clear span $\leq x \leq$ midpoint of clear span (i.e., shaded region in the load diagram).
- [3] Plate minimum bearing length of 3"; plate assumed to be SPF ($f_{cp} = 5.3 \text{ MPa} = 768.7 \text{ psi}$). Column/hanger minimum bearing length of 2".
- [4] Refer to [TJ-9500](#) (Canada-East) or [TJ-9505](#) (Canada-West) for complete design and installation information.
- [5] Beam also supports a maximum 24" tributary floor load as described by the load diagram.
- [6] Design load area is in reference to floors supporting residential areas as described in NBC 2015 Table 4.1.5.3; or the loading does not exceed the values specified in the load diagram.

Table Footnotes – Trus Joist® TJI® Joist Maximum Factored Concentrated Load –Quarter-Span to End-Span

- [1] Table values apply only to simple span beams with full lateral support of the compression edge.
 - Deflection criteria = $L/360$ live load (LL); $L/240$ total load (TL).
- [2] Location (x) of concentrated load: quarter-point of clear span $\leq x \leq$ midpoint of clear span (i.e., shaded region in the load diagram).
- [3] Minimum bearing length of 1¾" end (no web stiffeners).
- [4] Refer to [TJ-4500](#) for complete design and installation information.
- [5] Beam also supports a maximum 24" tributary floor load as described by the load diagram.
- [6] Design load area is in reference to floors supporting residential areas as described in NBC 2015 Table 4.1.5.3; or the loading does not exceed the values specified in the load diagram.

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TRUS JOIST® SCL MAXIMUM FACTORED CONCENTRATED LOAD – QUARTER-SPAN TO MID-SPAN⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾

Product	Clear Span	Maximum Factored Concentrated Load ⁽⁵⁾ Design Load Area ⁽⁶⁾ (ft ²)								
		1¾" Width				3½" Width				
		9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"	
1.55E TimberStrand® LSL	6'	3,670 (47)	3,665 (47)	3,655 (46)	3,650 (46)	8,005 (102)	7,990 (101)	7,980 (101)	7,970 (101)	
	8'	3,435 (44)	3,430 (44)	3,420 (43)	3,410 (43)	7,700 (98)	7,730 (98)	7,715 (98)	7,700 (98)	
	10'	2,030 (26)	3,200 (41)	3,190 (40)	3,180 (40)	5,045 (64)	7,485 (95)	7,465 (95)	7,445 (95)	
	12'	990 (13)	2,905 (37)	2,960 (38)	2,950 (37)	3,170 (40)	6,995 (89)	7,215 (92)	7,195 (91)	
	14'	255 (3)	1,730 (22)	2,735 (35)	2,720 (35)	1,900 (24)	4,840 (61)	6,970 (89)	6,945 (88)	
	16'	- -	860 (11)	2,325 (30)	2,490 (32)	975 (12)	3,300 (42)	6,220 (79)	6,700 (85)	
	18'	- -	- -	1,375 (17)	2,265 (29)	265 (3)	2,145 (27)	4,525 (57)	6,455 (82)	
	20'	- -	- -	625 (8)	1,835 (23)	- -	1,240 (16)	3,215 (41)	5,635 (72)	
	22'	- -	- -	- -	1,025 (13)	- -	500 (6)	2,170 (28)	4,215 (54)	
		Clear Span	5¼" Width (2- or 3-ply)				7" Width (4-ply)			
			9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"
		6'	12,340 (157)	12,320 (156)	12,300 (156)	12,285 (156)	16,675 (212)	16,650 (211)	16,625 (211)	16,600 (211)
		8'	11,870 (151)	12,035 (153)	12,010 (153)	11,990 (152)	16,045 (204)	16,340 (207)	16,305 (207)	16,275 (207)
		10'	8,065 (102)	11,765 (149)	11,735 (149)	11,710 (149)	11,080 (141)	16,050 (204)	16,010 (203)	15,975 (203)
		12'	5,350 (68)	11,080 (141)	11,470 (146)	11,435 (145)	7,530 (96)	15,165 (193)	15,725 (200)	15,680 (199)
		14'	3,540 (45)	7,950 (101)	11,210 (142)	11,170 (142)	5,185 (66)	11,060 (140)	15,450 (196)	15,395 (196)
		16'	2,255 (29)	5,740 (73)	10,120 (128)	10,910 (139)	3,535 (45)	8,180 (104)	14,015 (178)	15,115 (192)
		18'	1,285 (16)	4,105 (52)	7,675 (97)	10,645 (135)	2,310 (29)	6,065 (77)	10,820 (137)	14,840 (188)
		20'	475 (6)	2,850 (36)	5,805 (74)	9,435 (120)	1,295 (16)	4,460 (57)	8,400 (107)	13,235 (168)
	22'	- -	1,835 (23)	4,340 (55)	7,405 (94)	450 (6)	3,170 (40)	6,510 (83)	10,595 (135)	

• See Load Diagram and Table Footnotes on page 17.

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(CONT.) TRUS JOIST® SCL MAXIMUM FACTORED CONCENTRATED LOAD – QUARTER-SPAN TO MID-SPAN^{[1][2][3][4]}

Product	Clear Span	Maximum Factored Concentrated Load ^[5] (lb) Design Load Area ^[6] (ft ²)								
		1¾" Width				3½" Width (2-ply)				
		9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"	
2.0E Microllam® LVL	6'	3,670 (47)	3,665 (47)	3,660 (46)	3,655 (46)	8,010 (102)	7,995 (102)	7,985 (101)	7,975 (101)	
	8'	3,440 (44)	3,430 (44)	3,425 (43)	3,415 (43)	7,755 (98)	7,740 (98)	7,725 (98)	7,710 (98)	
	10'	2,905 (37)	3,200 (41)	3,195 (41)	3,185 (40)	6,775 (86)	7,490 (95)	7,470 (95)	7,455 (95)	
	12'	1,625 (21)	2,975 (38)	2,965 (38)	2,955 (38)	4,435 (56)	7,250 (92)	7,225 (92)	7,205 (92)	
	14'	730 (9)	2,635 (33)	2,740 (35)	2,725 (35)	2,850 (36)	6,645 (84)	6,985 (89)	6,960 (88)	
	16'	- -	1,570 (20)	2,515 (32)	2,500 (32)	1,715 (22)	4,715 (60)	6,745 (86)	6,715 (85)	
	18'	- -	755 (10)	2,290 (29)	2,275 (29)	860 (11)	3,285 (42)	6,355 (81)	6,475 (82)	
	20'	- -	- -	1,375 (17)	2,050 (26)	- -	2,175 (28)	4,720 (60)	6,235 (79)	
	22'	- -	- -	630 (8)	1,825 (23)	- -	1,290 (16)	3,430 (44)	5,995 (76)	
			5¼" Width (3-ply)				7" Width (4-ply)			
			9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"
		6'	12,345 (157)	12,325 (157)	12,310 (156)	12,295 (156)	16,685 (212)	16,660 (212)	16,635 (211)	16,615 (211)
		8'	12,070 (153)	12,045 (153)	12,020 (153)	12,000 (152)	16,385 (208)	16,350 (208)	16,320 (207)	16,290 (207)
		10'	10,565 (134)	11,780 (150)	11,750 (149)	11,725 (149)	14,355 (182)	16,065 (204)	16,030 (204)	15,995 (203)
		12'	7,250 (92)	11,520 (146)	11,490 (146)	11,455 (145)	10,060 (128)	15,795 (201)	15,750 (200)	15,705 (199)
		14'	4,970 (63)	10,660 (135)	11,230 (143)	11,190 (142)	7,090 (90)	14,675 (186)	15,475 (196)	15,425 (196)
		16'	3,370 (43)	7,865 (100)	10,975 (139)	10,930 (139)	5,020 (64)	11,010 (140)	15,205 (193)	15,145 (192)
		18'	2,180 (28)	5,815 (74)	10,415 (132)	10,675 (136)	3,500 (44)	8,345 (106)	14,475 (184)	14,875 (189)
		20'	1,260 (16)	4,250 (54)	8,065 (102)	10,415 (132)	2,340 (30)	6,330 (80)	11,410 (145)	14,600 (185)
		22'	475 (6)	3,025 (38)	6,230 (79)	10,160 (129)	1,360 (17)	4,755 (60)	9,030 (115)	14,300 (182)

• See Load Diagram and Table Footnotes on page 17.

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(CONT.) TRUS JOIST® SCL MAXIMUM FACTORED CONCENTRATED LOAD – QUARTER-SPAN TO MID-SPAN^{[1][2][3][4]}

Product	Clear Span	Maximum Factored Concentrated Load ^[5] (lb) Design Load Area ^[6] (ft ²)								
		2 ¹¹ / ₁₆ " Width				3 ¹ / ₂ " Width				
		9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"	9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"	
2.0E Parallam® PSL	6'	5,995 (76)	5,980 (76)	5,975 (76)	5,965 (76)	8,005 (102)	7,990 (101)	7,980 (101)	7,970 (101)	
	8'	5,750 (73)	5,735 (73)	5,720 (73)	5,710 (73)	7,750 (98)	7,730 (98)	7,715 (98)	7,700 (98)	
	10'	4,990 (63)	5,495 (70)	5,480 (70)	5,465 (69)	6,800 (86)	7,485 (95)	7,465 (95)	7,445 (95)	
	12'	3,130 (40)	5,260 (67)	5,240 (67)	5,225 (66)	4,435 (56)	7,240 (92)	7,215 (92)	7,195 (91)	
	14'	1,870 (24)	4,785 (61)	5,005 (64)	4,985 (63)	2,850 (36)	6,645 (84)	6,970 (89)	6,945 (88)	
	16'	950 (12)	3,255 (41)	4,770 (61)	4,745 (60)	1,715 (22)	4,715 (60)	6,730 (85)	6,700 (85)	
	18'	- -	2,110 (27)	4,465 (57)	4,510 (57)	860 (11)	3,285 (42)	6,355 (81)	6,455 (82)	
	20'	- -	1,210 (15)	3,165 (40)	4,275 (54)	- -	2,175 (28)	4,720 (60)	6,215 (79)	
	22'	- -	485 (6)	2,130 (27)	4,040 (51)	- -	1,290 (16)	3,430 (44)	5,970 (76)	
		Clear Span	5 ¹ / ₄ " Width				7" Width			
			9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"	9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"
		6'	12,340 (157)	12,320 (156)	12,300 (156)	12,285 (156)	16,675 (212)	16,650 (211)	16,625 (211)	16,600 (211)
		8'	12,065 (153)	12,035 (153)	12,010 (153)	11,990 (152)	16,375 (208)	16,340 (207)	16,305 (207)	16,275 (207)
		10'	10,690 (136)	11,765 (149)	11,735 (149)	11,710 (149)	14,585 (185)	16,050 (204)	16,010 (203)	15,975 (203)
		12'	7,250 (92)	11,505 (146)	11,470 (146)	11,435 (145)	10,060 (128)	15,775 (200)	15,725 (200)	15,680 (199)
		14'	4,970 (63)	10,660 (135)	11,210 (142)	11,170 (142)	7,090 (90)	14,675 (186)	15,450 (196)	15,395 (196)
		16'	3,370 (43)	7,865 (100)	10,955 (139)	10,910 (139)	5,020 (64)	11,010 (140)	15,175 (193)	15,115 (192)
		18'	2,180 (28)	5,815 (74)	10,415 (132)	10,645 (135)	3,500 (44)	8,345 (106)	14,475 (184)	14,840 (188)
		20'	1,260 (16)	4,250 (54)	8,065 (102)	10,385 (132)	2,340 (30)	6,330 (80)	11,410 (145)	14,560 (185)
		22'	455 (6)	3,025 (38)	6,230 (79)	10,130 (129)	1,330 (17)	4,755 (60)	9,030 (115)	14,285 (181)

• See Load Diagram and Table Footnotes on page 17.

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(CONT.) TRUS JOIST® SCL MAXIMUM FACTORED CONCENTRATED LOAD – QUARTER-SPAN TO MID-SPAN^{[1][2][3][4]}

Product	Clear Span	Maximum Factored Concentrated Load ^[5] (lb) Design Load Area ^[6] (ft ²)							
		2 ¹¹ / ₁₆ " Width				3 ¹ / ₂ " Width			
		9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"	9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"
2.2E Parallam® PSL	6'	-	-	-	-	7,870 (100)	7,855 (100)	7,845 (100)	7,830 (99)
	8'	-	-	-	-	7,615 (97)	7,595 (96)	7,580 (96)	7,565 (96)
	10'	-	-	-	-	7,370 (94)	7,345 (93)	7,325 (93)	7,310 (93)
	12'	-	-	-	-	5,000 (63)	7,105 (90)	7,080 (90)	7,060 (90)
	14'	-	-	-	-	3,275 (42)	6,865 (87)	6,835 (87)	6,810 (86)
	16'	-	-	-	-	2,045 (26)	5,345 (68)	6,595 (84)	6,565 (83)
	18'	-	-	-	-	1,120 (14)	3,790 (48)	6,355 (81)	6,320 (80)
	20'	-	-	-	-	395 (5)	2,590 (33)	5,390 (68)	6,080 (77)
	22'	-	-	-	-	-	1,640 (21)	3,990 (51)	5,835 (74)
	Clear Span	5 ¹ / ₄ " Width				7" Width			
		9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"	9 ¹ / ₂ "	11 ⁷ / ₈ "	14"	16"
	6'	12,135 (154)	12,115 (154)	12,095 (154)	12,080 (153)	16,405 (208)	16,375 (208)	16,350 (208)	16,330 (207)
	8'	11,860 (151)	11,830 (150)	11,805 (150)	11,785 (150)	16,105 (204)	16,065 (204)	16,035 (204)	16,005 (203)
	10'	11,595 (147)	11,565 (147)	11,535 (146)	11,505 (146)	15,825 (201)	15,780 (200)	15,740 (200)	15,700 (199)
	12'	8,090 (103)	11,305 (144)	11,270 (143)	11,235 (143)	11,185 (142)	15,505 (197)	15,455 (196)	15,410 (196)
	14'	5,605 (71)	11,050 (140)	11,005 (140)	10,970 (139)	7,940 (101)	15,235 (193)	15,180 (193)	15,125 (192)
	16'	3,865 (49)	8,810 (112)	10,750 (137)	10,705 (136)	5,680 (72)	12,270 (156)	14,905 (189)	14,845 (189)
	18'	2,575 (33)	6,575 (83)	10,495 (133)	10,445 (133)	4,030 (51)	9,355 (119)	14,635 (186)	14,565 (185)
	20'	1,580 (20)	4,875 (62)	9,070 (115)	10,185 (129)	2,770 (35)	7,160 (91)	12,745 (162)	14,290 (181)
22'	745 (9)	3,545 (45)	7,070 (90)	9,925 (126)	1,725 (22)	5,450 (69)	10,150 (129)	14,015 (178)	

• See Load Diagram and Table Footnotes on page 17.

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TRUS JOIST® TJI® JOIST MAXIMUM FACTORED CONCENTRATED LOAD – QUARTER-SPAN TO MID-SPAN^{[1][2][3][4]}

TJI® Series	Clear Span	Maximum Factored Concentrated Load ^[5] (lb) Design Load Area ^[6] (ft ²)							
		(1-ply)				(2-ply)			
		9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"
TJI® 110	6'	1,265 (16)	1,265 (16)	1,265 (16)	- -	2,580 (33)	2,575 (33)	2,575 (33)	- -
	8'	1,050 (13)	1,045 (13)	1,045 (13)	- -	2,355 (30)	2,350 (30)	2,345 (30)	- -
	10'	825 (10)	830 (11)	830 (11)	- -	2,135 (27)	2,130 (27)	2,125 (27)	- -
	12'	395 (5)	615 (8)	610 (8)	- -	1,750 (22)	1,910 (24)	1,900 (24)	- -
	14'	- -	350 (4)	395 (5)	- -	1,185 (15)	1,690 (21)	1,680 (21)	- -
	16'	- -	- -	- -	- -	445 (6)	1,280 (16)	1,460 (19)	- -
	18'	- -	- -	- -	- -	- -	830 (11)	1,240 (16)	- -
	20'	- -	- -	- -	- -	- -	265 (3)	815 (10)	- -
	22'	- -	- -	- -	- -	- -	- -	425 (5)	- -
TJI® 210	6'	1,465 (19)	1,465 (19)	1,465 (19)	1,465 (19)	2,575 (33)	2,575 (33)	2,570 (33)	2,610 (33)
	8'	1,250 (16)	1,245 (16)	1,245 (16)	1,245 (16)	2,350 (30)	2,345 (30)	2,345 (30)	2,595 (33)
	10'	1,030 (13)	1,030 (13)	1,025 (13)	1,025 (13)	2,130 (27)	2,125 (27)	2,120 (27)	2,370 (30)
	12'	665 (8)	815 (10)	810 (10)	810 (10)	1,905 (24)	1,900 (24)	1,895 (24)	2,145 (27)
	14'	- -	595 (8)	595 (8)	590 (8)	1,605 (20)	1,680 (21)	1,675 (21)	1,925 (24)
	16'	- -	265 (3)	375 (5)	375 (5)	785 (10)	1,460 (19)	1,450 (18)	1,700 (22)
	18'	- -	- -	- -	- -	- -	1,240 (16)	1,230 (16)	1,480 (19)
	20'	- -	- -	- -	- -	- -	630 (8)	1,010 (13)	1,255 (16)
	22'	- -	- -	- -	- -	- -	- -	790 (10)	1,035 (13)

• See Load Diagram and Table Footnotes on page 17.

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(CONT.) TRUS JOIST® TJI® JOIST MAXIMUM FACTORED CONCENTRATED LOAD – QUARTER-SPAN TO MID-SPAN^{[1][2][3][4]}

TJI® Series	Clear Span	Maximum Factored Concentrated Load ^[5] (lb) Design Load Area ^[6] (ft ²)							
		(1-ply)				(2-ply)			
		9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"
TJI® 230	6'	1,585 (20)	1,585 (20)	1,585 (20)	1,585 (20)	2,575 (33)	2,570 (33)	2,570 (33)	2,565 (33)
	8'	1,370 (17)	1,365 (17)	1,365 (17)	1,360 (17)	2,350 (30)	2,345 (30)	2,340 (30)	2,340 (30)
	10'	1,150 (15)	1,150 (15)	1,145 (15)	1,145 (15)	2,125 (27)	2,120 (27)	2,115 (27)	2,110 (27)
	12'	850 (11)	930 (12)	930 (12)	925 (12)	1,905 (24)	1,900 (24)	1,890 (24)	1,890 (24)
	14'	265 (3)	715 (9)	710 (9)	710 (9)	1,685 (21)	1,675 (21)	1,670 (21)	1,665 (21)
	16'	- -	435 (6)	495 (6)	490 (6)	1,010 (13)	1,455 (18)	1,445 (18)	1,440 (18)
	18'	- -	- -	280 (4)	275 (4)	325 (4)	1,235 (16)	1,225 (16)	1,220 (15)
	20'	- -	- -	- -	- -	- -	870 (11)	1,005 (13)	995 (13)
	22'	- -	- -	- -	- -	- -	- -	780 (10)	775 (10)
TJI® 360	6'	1,605 (20)	1,605 (20)	1,605 (20)	1,605 (20)	2,575 (33)	2,570 (33)	2,570 (33)	2,565 (33)
	8'	1,390 (18)	1,385 (18)	1,385 (18)	1,385 (18)	2,350 (30)	2,345 (30)	2,340 (30)	2,340 (30)
	10'	1,170 (15)	1,170 (15)	1,165 (15)	1,165 (15)	2,125 (27)	2,120 (27)	2,115 (27)	2,110 (27)
	12'	955 (12)	950 (12)	950 (12)	945 (12)	1,905 (24)	1,900 (24)	1,890 (24)	1,890 (24)
	14'	550 (7)	735 (9)	730 (9)	730 (9)	1,685 (21)	1,675 (21)	1,670 (21)	1,665 (21)
	16'	- -	520 (7)	515 (7)	510 (7)	1,465 (19)	1,455 (18)	1,445 (18)	1,440 (18)
	18'	- -	265 (3)	300 (4)	295 (4)	720 (9)	1,235 (16)	1,225 (16)	1,220 (15)
	20'	- -	- -	- -	- -	- -	1,015 (13)	1,005 (13)	995 (13)
	22'	- -	- -	- -	- -	- -	675 (9)	780 (10)	775 (10)

• See Load Diagram and Table Footnotes on page 17.

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(CONT.) TRUS JOIST® TJI® JOIST MAXIMUM FACTORED CONCENTRATED LOAD – QUARTER-SPAN TO MID-SPAN^{[1][2][3][4]}

TJI® Series	Clear Span	Maximum Factored Concentrated Load ^[5] (lb) Design Load Area ^[6] (ft ²)							
		(1-ply)				(2-ply)			
		9½"	11⅞"	14"	16"	9½"	11⅞"	14"	16"
TJI® 560	6'	1,595 (20)	1,595 (20)	1,590 (20)	1,590 (20)	2,940 (37)	2,940 (37)	2,940 (37)	2,940 (37)
	8'	1,375 (17)	1,370 (17)	1,370 (17)	1,370 (17)	2,940 (37)	2,940 (37)	2,940 (37)	2,940 (37)
	10'	1,155 (15)	1,155 (15)	1,150 (15)	1,150 (15)	2,805 (36)	2,800 (36)	2,795 (36)	2,790 (35)
	12'	940 (12)	935 (12)	935 (12)	930 (12)	2,580 (33)	2,575 (33)	2,570 (33)	2,565 (33)
	14'	720 (9)	715 (9)	715 (9)	710 (9)	2,360 (30)	2,350 (30)	2,345 (30)	2,335 (30)
	16'	505 (6)	500 (6)	495 (6)	490 (6)	2,135 (27)	2,125 (27)	2,120 (27)	2,110 (27)
	18'	- -	280 (4)	280 (4)	275 (3)	1,890 (24)	1,900 (24)	1,895 (24)	1,885 (24)
	20'	- -	- -	- -	- -	1,080 (14)	1,675 (21)	1,670 (21)	1,660 (21)
	22'	- -	- -	- -	- -	410 (5)	1,450 (18)	1,445 (18)	1,430 (18)

• See Load Diagram and Table Footnotes on page 17.

Appendix A – Code References

Weyerhaeuser EWP are supported by code evaluation reports that verify each product to be in compliance with Division A, Clause 1.2.1.1.(1)(b) of NBC 2015 as an alternative solution that achieves at least the minimum level of performance required by the applicable sentence in Division B, Article 9.23.4.2 of NBC 2015. The code evaluation reports include references to Weyerhaeuser EWP technical literature that contain pre-engineered span charts and installation details to demonstrate compliance with Part 9 buildings for acceptance by the local authority having jurisdiction (AHJ).

CCMC EVALUATION REPORTS AND ONTARIO MINISTER’S RULINGS

Product	CCMC Evaluation Report	Ontario Minister’s Ruling
Trus Joist® TJI® Joist	13132-R	No. 05-06-130
TimberStrand® LSL	12627-R	No. 05-19-143
Microllam® LVL	08675-R	No. 05-20-144
Parallam® PSL	11161-R	No. 05-18-142

Appendix B – Weyerhaeuser Technical Literature

Weyerhaeuser EWP do not require additional engineering when specified and installed in accordance with conditions and limitations stated in the applicable code evaluation report and Weyerhaeuser EWP technical literature. The table below provides links to commonly referenced documents. For applications beyond the scope of technical literature, refer to [ForteWEB®](#) design software.

For most standard applications, Weyerhaeuser EWP can be easily verified using the referenced span charts or other documentation without additional engineering verification. It is the opinion of CCMC that Weyerhaeuser EWP complies with NBC 2015 as an alternative solution that achieves at least the minimum level of performance required by Division B in the areas defined by the objectives and functional statements attributed to certain applicable acceptable solutions.

WEYERHAEUSER TECHNICAL LITERATURE

Product/Type	Document Title	Reference No.
Trus Joist® SCL	Trus Joist® Beam, Header, and Column Specifier’s Guide (E. Canada)	TJ-9500
	Trus Joist® Beam, Header, and Column Specifier’s Guide (W. Canada)	TJ-9505
Trus Joist® TJI® Joist	Trus Joist® TJI® Joist Specifier’s Guide (Canada)	TJ-4500
Other Technical Guides for Weyerhaeuser EWP	Installation Guide for Floor and Roof Framing	TJ-9001
	Engineering Requirements for I-Joists, Structural Composite Lumber, and Plated Trusses	TB-158
	Weyerhaeuser Engineered Wood Products Quick Reference Guide for Building Officials and Building Designers	TB-354
Connectors	Simpson Strong-Tie® Connector Selection Guide for Trus Joist® Products (Limit States Design)	CSG-TJCAN22
	Mitek® EWP Product Guide for Trus Joist® Products – Canadian Specifier’s Guide	#994-11/2020

- For access to all Weyerhaeuser EWP technical literature, visit the Weyerhaeuser Wood Products [Document Library](#).

Appendix C – Flowchart to Confirm EWP Adequacy for Authority Having Jurisdiction

