



#TJ-9503 SF

SPECIFIER'S GUIDE

# **CANADA WALL GUIDE**

Featuring Trus Joist<sup>®</sup> TimberStrand<sup>®</sup> LSL and Parallam<sup>®</sup> PSL Wall Framing

- Engineered to meet code requirements for walls up to 30' tall
- Available in ForteWEB<sup>®</sup> software for quick, easy sizing of studs, columns, headers, and connections
- Limited product warranty





The products in this guide are readily available through our nationwide network of distributors and dealers. For more information on other applications or other Trus Joist<sup>®</sup> products, contact your Weyerhaeuser representative.

This guide is for use with NBCC 2010, NBCC 2015, CSA 086-09 and CSA 086-14.

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### **Choose Trus Joist® wall framing for straight, flush walls that:**

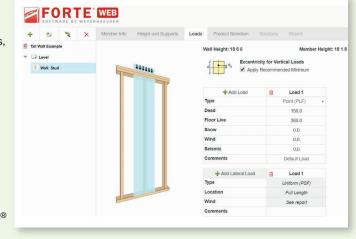
- are critical for tile applications.
- allow easy countertop and cabinet installation in kitchens and bathrooms.
- give visual appeal to tall walls in great rooms and entryways.
- have the strength and stiffness to accommodate "window" walls.

Many of today's homes have design requirements—such as walls over 10 feet tall—that exceed the code provisions for conventional construction. Trus Joist® TimberStrand® laminated strand lumber (LSL) and Parallam® parallel strand lumber (PSL) can help you meet the requirements of these challenging designs. Weyerhaeuser also offers product and design support that includes technical information, design software, and design advice from our team of skilled engineers and sales representatives.

#### **Tall wall software solutions**

 $\label{eq:software} ForteWEB^{\circledast} \mbox{ software is a single-member sizing solution created by Weyerhaeuser to help estimators, architects, and engineers design walls quickly and efficiently. ForteWEB^{\circledast}$ 

software provides the most economical solutions for studs. columns, and headers, and helps you design connections for each member. Professional calculations can be printed out for engineer sign-off or to give to building officials. Ask your Weyerhaeuser representative how you can get ForteWEB® software today.



### This guide features the following Trus Joist® wall framing products:

#### Western Canada:

**1.5E TimberStrand® LSL studs:** 1<sup>1</sup>/<sub>2</sub>" x 5<sup>1</sup>/<sub>2</sub>" (2x6) 1<sup>1</sup>/<sub>2</sub>" x 7<sup>1</sup>/<sub>4</sub>" (2x8)

1.55E TimberStrand® LSL studs:  $1^{3}/4^{"} \times 7^{1}/4^{"}$ 

**1.55E TimberStrand® LSL headers and beams:** Widths: 134" and 342"Depths: 942", 1178", 14", and 16"

**2.2E Parallam® PSL headers and beams:** Widths: 3<sup>1</sup>/<sub>2</sub>", 5<sup>1</sup>/<sub>4</sub>", and 7" Depths: 9<sup>1</sup>/<sub>4</sub>", 9<sup>1</sup>/<sub>2</sub>", 11<sup>1</sup>/<sub>4</sub>", 11<sup>7</sup>/<sub>8</sub>", 14", 16", and 19"

**1.8E Parallam® PSL columns and posts:** 3<sup>1</sup>/<sub>2</sub>" x 3<sup>1</sup>/<sub>2</sub>" x 5<sup>1</sup>/<sub>4</sub>" x 5<sup>1</sup>/<sub>4</sub>" x 7" 5<sup>1</sup>/<sub>4</sub>" x 5<sup>1</sup>/<sub>4</sub>" x 5<sup>1</sup>/<sub>4</sub>" x 7" 7" x 7"

#### **Eastern Canada:**

**1.3E TimberStrand® LSL studs\*:** 1<sup>1</sup>/<sub>2</sub>" x 3<sup>1</sup>/<sub>2</sub>" (2x4) in lengths up to 14'

**1.5E TimberStrand® LSL studs:** 1<sup>1</sup>/<sub>2</sub>" x 5<sup>1</sup>/<sub>2</sub>" (2x6) 1<sup>1</sup>/<sub>2</sub>" x 7<sup>1</sup>/<sub>4</sub>" (2x8)

**1.55E TimberStrand® LSL headers and beams:** Widths:  $1^{3}_{4}$ " and  $3^{4}_{2}$ " Depths:  $9^{4}_{2}$ ",  $11^{7}_{8}$ ", 14", and 16"

**2.0E Parallam® PSL headers and beams:** Widths: 3<sup>1</sup>/<sub>2</sub>", 5<sup>1</sup>/<sub>4</sub>", and 7" Depths: 9<sup>1</sup>/<sub>2</sub>", 11<sup>7</sup>/<sub>8</sub>", 14", 16", and 18"

Other sizes may be available in Weyerhaeuser software; however, not all products are available in all markets. Contact your Weyerhaeuser representative for the sizes available in your area.

\* For 1.3E TimberStrand<sup>®</sup> LSL headers, columns, and posts, refer to the Trus Joist<sup>®</sup> Beam, Header, and Column Specifier's Guide for Eastern Canada, TJ-9500.

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## TIMBERSTRAND® LSL WALL SYSTEMS IN MID-RISE CONSTRUCTION

With 5- and 6-storey wood frame construction now approved in several Canadian jurisdictions, builders and specifiers are looking to TimberStrand<sup>®</sup> LSL as a solution for applications where higher loads are applied to wall framing. Conventional studs used in lower levels of mid-rise buildings often require tight on-center spacing, posing a challenge for trades when installing wiring, fixtures, plumbing and other services in the walls. But high-strength TimberStrand<sup>®</sup> LSL studs allow wider on-center spacing, which not only helps speed up construction but also improves the energy performance associated with thermal-bridging at exterior walls. In addition, TimberStrand<sup>®</sup> LSL gives builders quality walls that are stiff, strong and straight. TimberStrand<sup>®</sup> LSL wall systems also address the challenges of dimensional stability, plate crushing and shear wall performance that designers and builders commonly face with multi-storey construction projects:

- Because TimberStrand<sup>®</sup> LSL studs are manufactured dry, walls built with them are straighter than those built with traditional materials and movement due to plate shrinkage is significantly reduced as well.
- Used in flat orientation, TimberStrand<sup>®</sup> LSL studs in wall applications can support the demanding loads of mid-rise structures.

## **DEFLECTION REQUIREMENTS**

#### How stiff does a wall need to be?

Annex A-4.5.2.2 of CSA 086 suggests that for brittle finishes such as brick, typical stud wall systems should be designed for an out-of-plane deflection criteria of L/360. However, this section of the code is non-mandatory and included for informative purposes. As an alternative, organizations such as the Brick Industry Association suggest L/240 criteria for brick veneer with wood stud walls, which is consistent with model codes in the United States.

While model building codes provide required deflection limits based on the type of finish supported by the wall framing, acceptable deflection limits are usually established by the design professional of record, finish-material provider, and/or building code authority. Typical deflection requirements are shown in table at right.

### Code Minimum Deflection Criteria<sup>(1)</sup>

Type of Wall	<b>Maximum Deflection</b>
Exterior walls with brittle finish (brick/stucco/plaster)	L/360 <sup>(2)</sup>
Exterior walls with brick veneer	L/240 <sup>(3)</sup>
Exterior walls with flexible finish	L/180 <sup>(4)</sup>
(1) Local authority may require higher deflection criteria. Contr	at your Wayarbaaysar

- Local authority may require higher deflection criteria. Contact your Weyerhaeuser representative for more information.
- (2) CSA 086 Annex A (Informative) section A.4.5.2.2.
- (3) The Brick Industry Association Technical Note, *Brick Veneer/Wood Stud Walls*.
- (4) Commentary D-User's Guide-NBCC Structural Commentaries (Part 4 of Division B).

### **DESIGN PROPERTIES**

### Specified Strengths<sup>(1)</sup> and Moduli of Elasticity (Standard Term)

-			-					
			T	ïmberStrand® LS	L		Parallam <sup>®</sup> PSL	
Modulus of elasticity	E	=	1.3 x 10 <sup>6</sup>	1.5 x 10 <sup>6</sup>	1.55 x 10 <sup>6</sup>	1.8 x 106	2.0 x 106	2.2 x 106
Shear modulus of elasticity	G	=	81,250 psi	93,750 psi	96,875 psi	112,500 psi	125,000 psi	137,500 psi
Compression parallel to grain	f <sub>cll</sub>	=	2,930psi	3,355 psi	3,465 psi	3,990 psi	4,630 <sup>(10)</sup> psi	4,630 <sup>(10)</sup> psi
Tension stress	ft <sup>(2)</sup>	=	1,985 psi	2,770 psi	1,975 <sup>(9)</sup> psi	3,245 psi	3,750 psi	3,750 psi
Flexural stress	f <sub>b</sub> (3)	=	3,140 <sup>(6)</sup> psi	4,160 <sup>(6)</sup> psi	4,295 <sup>(6)</sup> psi	4,620 <sup>(6)</sup> psi	5,360 <sup>(6)</sup> psi	5,360 <sup>(6)</sup> psi
Horizontal shear parallel to grain	fv	=	780 psi	935 psi	575 <sup>(9)</sup> psi	425 psi	540 psi	540 psi
Compression perpendicular to grain	f <sub>c⊥</sub> (4)	=	1,295 psi	1,570 psi	1,635 psi	990 psi	1,135 psi	1,135 psi
Flexural stress	fb	=	3,510 psi	4,660 psi	4,830 psi	4,435 <sup>(6)</sup> psi	4,895 <sup>(6)</sup> psi	4,895 <sup>(6)</sup> psi
Horizontal shear parallel to grain	fv	=	280 psi	280 psi	280 psi	355 psi	390 psi	390 psi
Compression perpendicular to grain	f <sub>c⊥</sub> (4)	=	1,215 psi	1,355 psi	1,405 psi	990 psi	1,155 psi	1,155 psi
Shear Walls <sup>(5)</sup>	SG	=	0.42(7)	0.42	0.42	N.A.	N.A.	N.A.
Lateral	SG	=	0.50	0.50	0.50	0.50	0.50	0.50
Withdrawal	SG	=	0.42	0.42	0.42	0.50	0.50	0.50
Minimum Shear Wall <sup>(8)</sup> nail spacing	00	=	6"	3"	3"	N.A.	N.A.	N.A.
	Shear modulus of elasticity     Compression parallel to grain     Tension stress     Flexural stress     Horizontal shear parallel to grain     Compression perpendicular to grain     Flexural stress     Horizontal shear parallel to grain     Compression perpendicular to grain     Flexural stress     Horizontal shear parallel to grain     Compression perpendicular to grain     Shear Walls <sup>(5)</sup> Lateral     Withdrawal	$\begin{tabular}{ c c c c c }\hline & G \\ \hline Compression parallel to grain & f_{cll} \\ \hline Tension stress & ft^{(2)} \\ \hline Flexural stress & f_b^{(3)} \\ \hline Horizontal shear parallel to grain & f_v \\ \hline Compression perpendicular to grain & f_{c\_}^{(4)} \\ \hline Flexural stress & f_b \\ \hline Horizontal shear parallel to grain & f_v \\ \hline Compression perpendicular to grain & f_v \\ \hline Compression perpendicular to grain & f_v \\ \hline Compression perpendicular to grain & f_v \\ \hline Shear Walls^{(5)} & SG \\ \hline Lateral & SG \\ \hline Withdrawal & SG \\ \hline \end{tabular}$	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{c cccc} \mbox{Modulus of elasticity} & \mbox{E} & = & \mbox{1.3 x 10}^6 \\ \hline \mbox{Shear modulus of elasticity} & \mbox{G} & = & \mbox{81,250 psi} \\ \hline \mbox{Compression parallel to grain} & \mbox{f}_{cll} & = & \mbox{2,930psi} \\ \hline \mbox{Tension stress} & \mbox{f}_{l}^{(2)} & = & \mbox{1,985 psi} \\ \hline \mbox{Tension stress} & \mbox{f}_{l}^{(3)} & = & \mbox{3,140}^{(6)} \mbox{psi} \\ \hline \mbox{Horizontal shear parallel to grain} & \mbox{f}_{v} & = & \mbox{780 psi} \\ \hline \mbox{Compression perpendicular to grain} & \mbox{f}_{v} & = & \mbox{780 psi} \\ \hline \mbox{Compression perpendicular to grain} & \mbox{f}_{v} & = & \mbox{3,510 psi} \\ \hline \mbox{Horizontal shear parallel to grain} & \mbox{f}_{v} & = & \mbox{280 psi} \\ \hline \mbox{Compression perpendicular to grain} & \mbox{f}_{v} & = & \mbox{280 psi} \\ \hline \mbox{Compression perpendicular to grain} & \mbox{f}_{v} & = & \mbox{280 psi} \\ \hline \mbox{Compression perpendicular to grain} & \mbox{f}_{v} & = & \mbox{280 psi} \\ \hline \mbox{Compression perpendicular to grain} & \mbox{f}_{v} & = & \mbox{280 psi} \\ \hline \mbox{Compression perpendicular to grain} & \mbox{f}_{v} & = & \mbox{280 psi} \\ \hline \mbox{Compression perpendicular to grain} & \mbox{f}_{v} & = & \mbox{280 psi} \\ \hline \mbox{Compression perpendicular to grain} & \mbox{f}_{v} & = & \mbox{280 psi} \\ \hline \mbox{Compression perpendicular to grain} & \mbox{f}_{v} & = & \mbox{280 psi} \\ \hline \mbox{Compression perpendicular to grain} & \mbox{f}_{v} & = & \mbox{280 psi} \\ \hline \mbox{Lateral} & \mbox{SG} & = & \mbox{0.42} \\ \hline \mbox{Withdrawal} & \mbox{SG} & = & \mbox{0.42} \\ \hline \mbox{Compression} & \mbox{Compression} \\ \hline $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

 To obtain factored resistances, apply the appropriate formulae from CSA 086 to the specified strengths shown.

(2)  $f_{t}$  has been adjusted to reflect the volume effects for most standard applications.

(3) When structural members qualify as repetitive members in accordance with CSA 086, a 4% increase is permitted for  $f_{\rm b}$  in addition to the increases permitted in Footnote 6.

(4)  $f_{c\perp}$  shall not be increased for duration of load.

(5) Design shear wall applications per CSA 086 Table 9.5.1A.

(6) For 12" depth. For other depths, multiply  $f_b$  by the appropriate factor as follows:

- For TimberStrand® LSL multiply by  $\begin{bmatrix} \frac{12}{d} \end{bmatrix}^{0.092}$  - For Parallam® PSL multiply by  $\begin{bmatrix} \frac{12}{d} \end{bmatrix}^{0.111}$ 

(7) Do not use CSA 086 Table 9.5.1A with nail spacings less than 6" on-centre. (Studs at boundary locations, where two panels abut, are allowed two rows at 6" on-centre.)

(8) Refer to CCMC 12627-R and CSA 086 for additional nail placement requirements.
(9) Value accounts for large hole capabilities. See Allowable Holes on page 7.

(10) For column applications, use F<sub>cll</sub> of 800 psi. Alternatively, refer to CCMC 11161-R, Table 4.1.1, footnote 9.

Beam Orientation Orientation Plank Orientation

TimberStrand® LSL and untreated Parallam® PSL are intended for dry-use applications

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NBCC TJ-9503 | October 2022

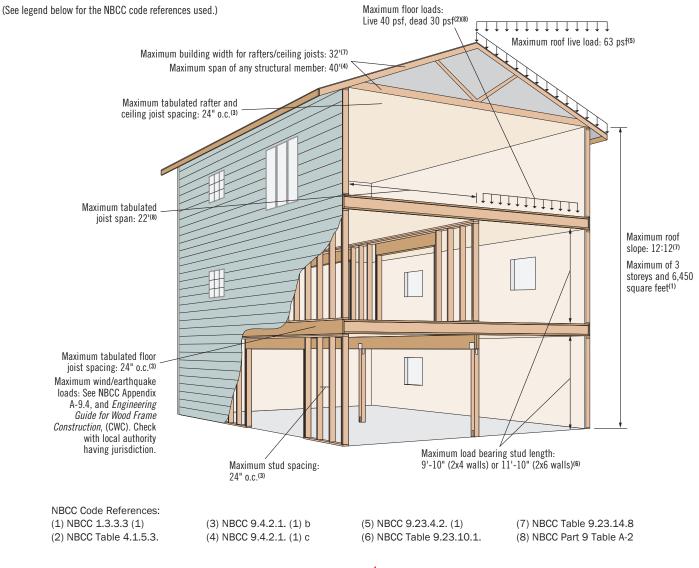
### Stud Specifications for Conventional Construction (from NBCC Table 9.23.10.1.)\*

Type of Wall	Supported Loads (including dead loads)	Minimum Stud Size, Nominal	Maximum Stud Spacing	Maximum Unsupported Height
	Attic not accessible by a stairway	2x4	24"	11'-10"
[	Attic accessible by a stairway plus 1 floor	2x4	16"	11'-10"
[	Roof load plus 1 floor	2x4	16"	11'-10"
[	Attic not accessible by stairway plus 2 floors	2x4	16"	11'-10"
[	Attic accessible by a stairway	2x4	24"	11'-10"
Interior	Attic not accessible by a stairway plus 1 floor	2x4	24"	11'-10"
	Attic accessible by a stairway plus 2 floors	2x4	12"	11'-10"
	Roof load plus 2 floors	3x4	16"	11'-10"
	ROOT TOZU PIUS Z TIOOTS	2x6	16"	13'-9"
[	Attic accessible by a stairway plus 3 floors	2x6	12"	13'-9"
	Roof load plus 3 floors	2x6	12"	13'-9"
	Roof with or without attic	2x4	24"	9'-10"
	Roof with or without attic storage plus 1 floor	2x4	16"	9'-10"
	Root with of without attic storage plus 1 hoor	2x6	24"	9'-10"
Exterior		2x4	12"	9'-10"
	Roof with or without attic storage plus 2 floors	3x4	16"	9'-10"
		2x6	16"	11'-10"
	Roof with or without attic storage plus 3 floors	2x6	12"	5'-11"

The illustration below provides the key limitations to the prescribed information in Part 9 of the NBCC. If these requirements and the nailing requirements of NBCC Table 9.23.3.4. are met, TimberStrand® LSL wall studs can be used in Part 9 buildings as a direct substitution for the lumber studs listed in Table 9.23.10.1. of the NBCC. A section of this table is provided to the left for your convenience.

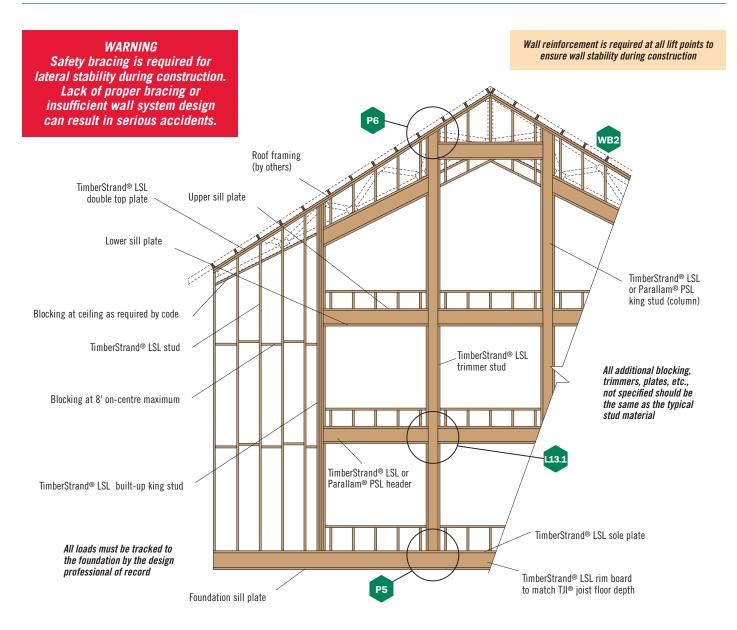
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### **Limitations of Conventional Construction**

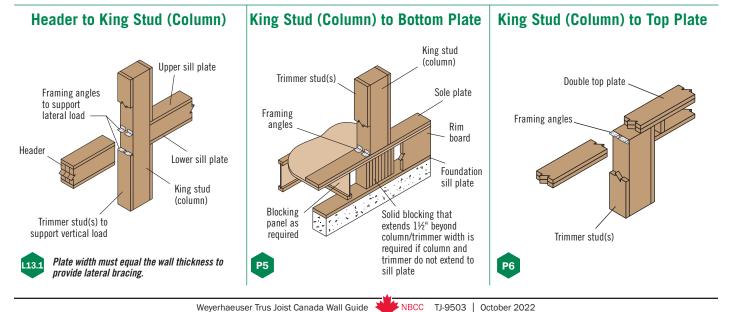


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## **TYPICAL TALL WALL FRAMING**



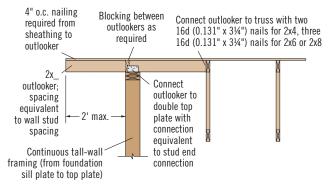
### WALL DETAILS



Weyerhaeuser Trus Joist Canada Wall Guide

## WALL DETAILS

### Wind Brace



Outlooker spacing must be the same as the stud spacing. For alternate

spacing, contact your Weyerhaeuser representative.

Roof diaphragm High Excessive how in wind • gable end frame force Connection failure between top of Ceiling and finish cracking and related wall and bottom of serviceability issues (i.e. construction defects) gable end frame

The top of the wall framing must be supported by either the outlooker framing or by perpendicular trusses attached to the roof diaphragm. Depending on the application, gypsum ceilings can lack adequate strength to transfer lateral loads. Bracing for gable trusses that are stacked on walls is outside the scope of this document. Contact your building engineer for specific design information in these cases.

## FRAMING CONNECTORS

### Lateral Connections

(2) Minimum 51/4" deep column or stud

(3) Minimum 3<sup>1</sup>/<sub>2</sub>" wide x 5<sup>1</sup>/<sub>4</sub>" deep column or stud (i.e., 2x6 wall)

(6) Minimum 3<sup>1</sup>/<sub>2</sub>" wide x 7" deep column or stud (i.e., 2x8 wall)

(1) Factored value

(4) Clinched when possible (5) 2-ply top plate required

**General Notes** 

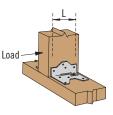
Table is based on:

Short-term load duration.

.

WR2

	On Flat Plate				On Sloped Plate		
Lateral Connection at Each End	Nailing	Capacity <sup>(1)</sup> (lbs)	Connector Length (L)	Lateral Connection at Each End	Nailing	Capacity <sup>(1)</sup> (lbs)	Connector Length (L)
Two end or toe nails	12d (0.120" x 3¼")	175	N.A.	Two end or toe nails	12d (0.120" x 3¼")	175	N.A.
Three end or toe nails	12d (0.120" x 3¼")	260	N.A.	Three end or toe nails	12d (0.120" x 3¼")	260	N.A.
Four toe nails	12d (0.120" x 3¼")	435	N.A.	Four toe nails	12d (0.120" x 3¼")	435	N.A.
One A35(2)	Twelve 8d (0.131" x 1½")	675	41⁄2"	One LS50 <sup>(2)(4)(5)</sup>	Eight 10d (0.148" x 3")	720	47/8"
Two A34	Eight 8d (0.131" x 1½")	950	21⁄2"	Two LS30 <sup>(3)(5)</sup>	Six 10d (0.148" x 3")	830	33/8"
Two A35(2)	Twelve 8d (0.131" x 1½")	1,350	41⁄2"	Two LS50(3)(5)	Eight 10d (0.148" x 3")	1,440	47/8"
Four A34(3)	Eight 8d (0.131" x 1½")	1,900	21⁄2"	Two LS70 <sup>(5)(6)</sup>	Ten 10d (0.148" x 3")	1,610	63⁄8"







Wide face

of strands

into the narrow face of strands

DO NOT install bolts or screws

In order to use the manufacturer's published capacities when designing column caps, bases, or holdowns for uplift, the bolts or screws must be installed perpendicular to the wide face of strands, as shown above



Wide face

of strands

### 2-Ply Nailing Recommendations

• For 2x4, 2x6, 1¾" x 7¼", and 2x8: Minimum of two rows of 16d (0.131" x 3¼") pneumatic nails at 10" on-centre, staggered.

- Lateral connection values based on a specific gravity of spruce-pine-fir.

For toenail connections, a 0.83 factor was used (based on CSA 086).

For end-grain nailed connections, a 0.67 factor was used (based on CSA 086).

Nail from one side. 

### **3-Ply Nailing Recommendations**

- For 2x4: Minimum of two rows of 16d (0.131" x 3¼") pneumatic nails at 8" on-centre, staggered.
- For 2x6, 1¾" x 7¼", and 2x8: Minimum of three rows of 16d (0.131" x 3¼") pneumatic nails at 5" on-centre, staggered.
- Nail from both sides.

### **4-Ply Fastening Recommendations**

• For 2x4: Nail each ply to the other with a minimum of two rows of 16d (0.131" x 3¼") pneumatic nails at 5" on-centre. When connecting each ply, offset nail rows by 2" from the ply below.

#### • For 2x6, 1<sup>3</sup>/<sub>4</sub>" x 7<sup>1</sup>/<sub>4</sub>", and 2x8:

- Nail each ply to the other with a minimum of three rows of 16d (0.131" x 3¼") pneumatic nails at 5" on-centre. When connecting each ply, offset nail rows by 2" from the ply below.

or.

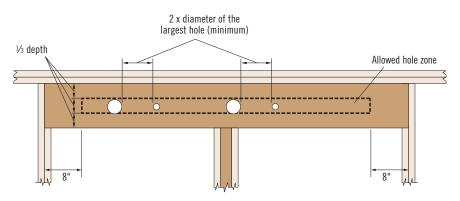
NBCC

Minimum of two rows of 1/2" diameter bolts spaced at 8" on-centre.

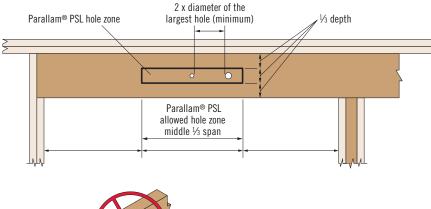
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### 1.55E TimberStrand<sup>®</sup> LSL Headers and Beams



### Parallam<sup>®</sup> PSL Headers and Beams





DO NOT cut, notch, or drill holes in headers or beams except as indicated in the illustrations and tables above

### **General Notes**

- Allowed hole zone suitable for headers and beams with uniform and/or concentrated loads anywhere along the member.
- Round holes only.
- No holes in headers or beams in plank orientation.

### 1.55E TimberStrand<sup>®</sup> LSL

Header or Beam Depth	Maximum Round Hole Size
<b>9</b> ½"	3"
117⁄8"	35⁄8"
14"-16"	45⁄8"

See illustration for allowed hole zone.

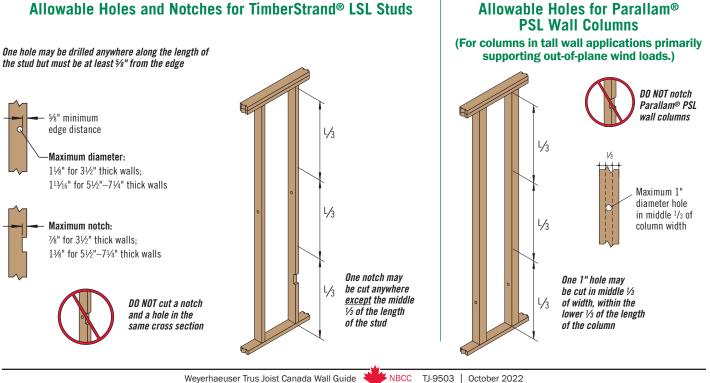
### **General Notes**

- Allowed hole zone suitable for headers and beams with uniform loads only.
- Round holes only.
- No holes in cantilevers.
- No holes in headers or beams in plank orientation.

### Parallam<sup>®</sup> PSL

Header or Beam Depth	Maximum Round Hole Size
<b>5½</b> "	1¾"
<b>7¼"–20"</b>	2"
7¼"–20"	2"

See illustration for allowed hole zone.



## WE CAN HELP YOU BUILD SMARTER



You want to build solid and durable structures—we want to help. Weyerhaeuser provides high-quality building products and unparalleled technical and field assistance to support you and your project from start to finish.

Floors and Roofs: Start with the best framing components in the industry: our Trus Joist® TJI® joists; TimberStrand® LSL rim board; and TimberStrand® LSL, Microllam® LVL, and Parallam® PSL headers and beams. Pull them all together with our self-gapping and self-draining Weyerhaeuser Edge Gold™ floor panels and durable Weyerhaeuser roof sheathing.

**Walls:** Get the best value out of your framing package—use TimberStrand® LSL studs for tall walls, kitchens, and bathrooms, and our traditional, solid-sawn lumber everywhere else. Cut down installation time by using TimberStrand® LSL headers for doors and windows, and Weyerhaeuser wall sheathing with its handy two-way nail lines.

**Software Solutions:** Whether you are a design professional or lumber dealer, Weyerhaeuser offers an array of software packages to help you specify individual framing members, create cut lists, manage inventories—even help you design a complete structural frame. Contact your Weyerhaeuser representative to find out how to get the software you need.

**Technical Support:** Need technical help? Weyerhaeuser has one of the largest networks of engineers and sales representatives in the business. Call us for help, and a skilled member from our team of experts will answer your questions and work with you to develop solutions that meet all your structural framing needs.

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