

Part 9 Lateral Bracing – Digital Tools

12pm June 5th, 2025

Presenter: Tim Warner

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Disclaimer

Information presented today does not directly represent the opinions of the Building Officials Association of BC (BOABC). This presentation is conceptual and for informal educational purposes only. The presenter and Association takes no responsibility for application of any concepts or interpretations in this presentation to specific projects. The slides must not be considered complete or exhaustive. Code provisions have been generally represented and may not reflect all exceptions.



Land Acknowledgement

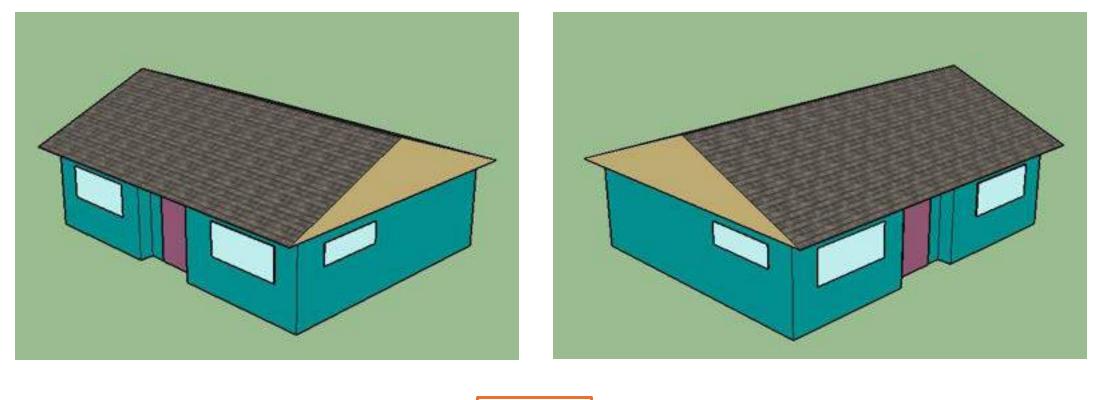


Welcome!

Today's Session:

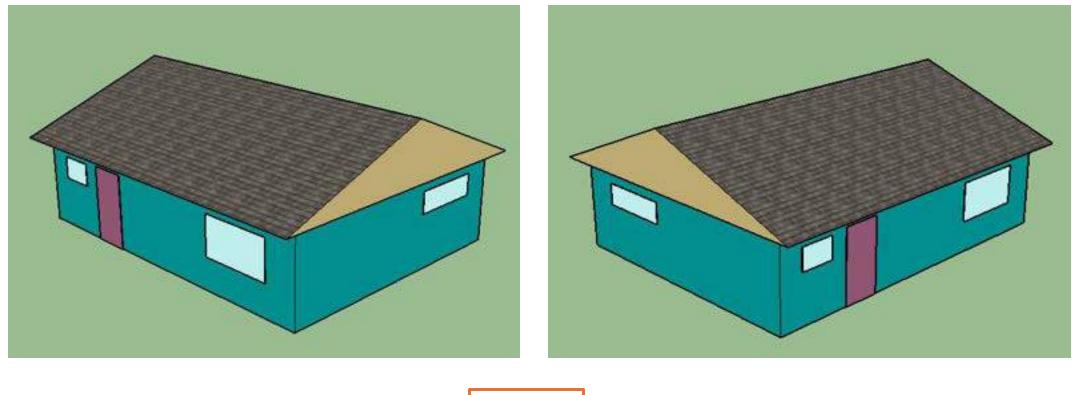
- Example House for Context
 CWC Bracing Tool
 Part 9 Bracing Calculator
 - Dynamic Checklist

Overview



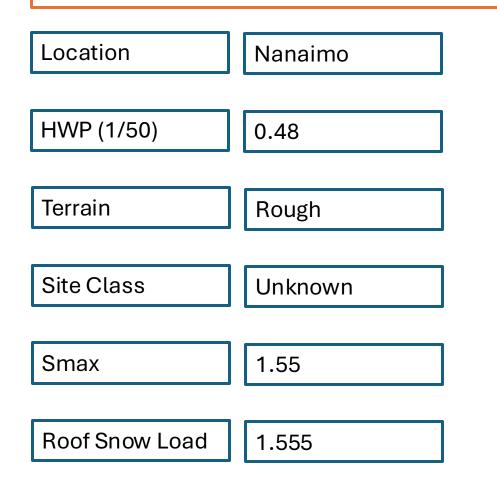
Front

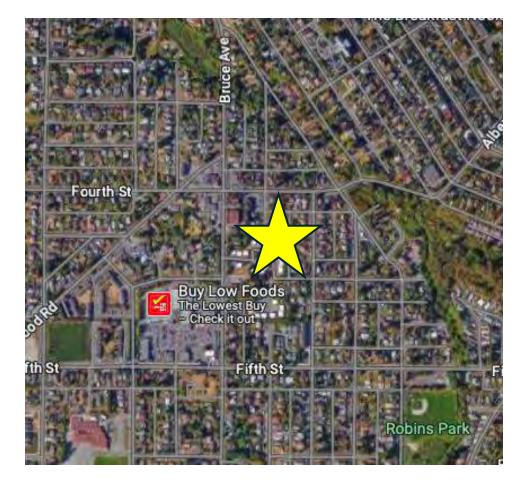
Overview

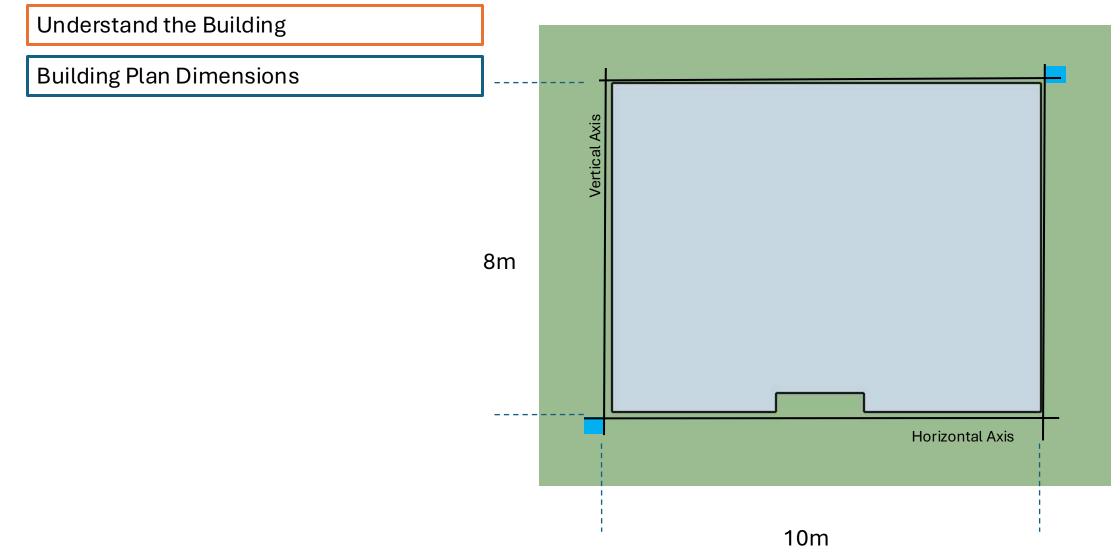


Back

Understand the Site

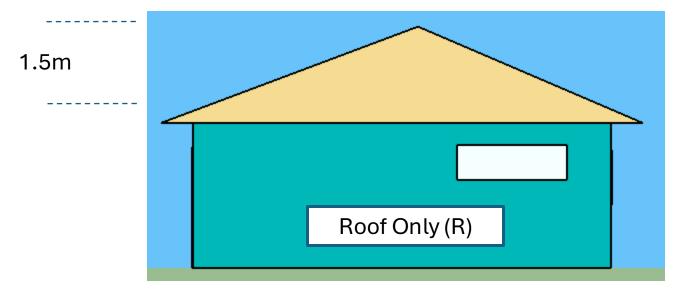






Understand the Building

Braced Storeys and Eave-to-Ridge Height



Understand the Building

Building Dimensions:

- 10m (Horizontal Axis)
- 8m (Vertical Axis)
- 1.5m (Eave-to-Ridge)

Normal weight Construction

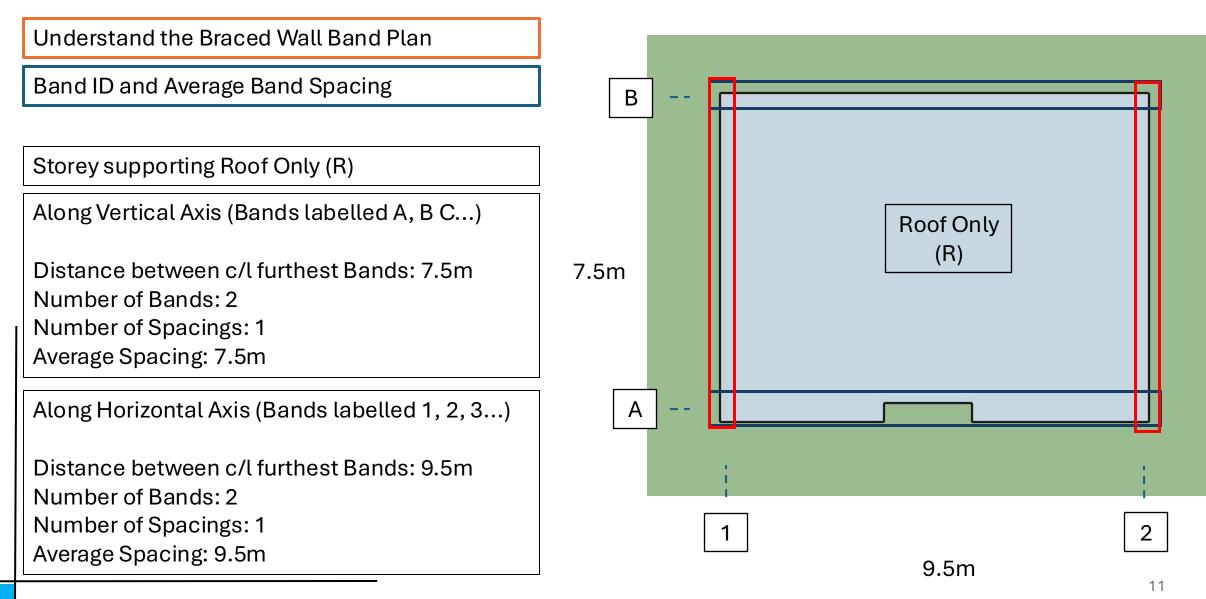
Slab on Grade

1 Braced Storey

Lowest wood-framed walls support no floors

Continuously Sheathed

All Bands are WSP-A with interior gypsum board installed



CWC Wind and Seismic Bracing Calculator

https://cwc.ca/design-tool/bracing-tool/

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Welcome to the CWC Portal Wood Design Tools & Calculators

The Canadian Wood Council (CWC) offers simple, easy-to-use, and free design tools to help architects, engineers, and builders work more efficiently with wood. From electronic design calculators to practical construction guides, our resources make wood design more accessible and straightforward.

> CWC offers a number of free resources available to wood professionals as well as wood enthusiasts.

Wind & Seismic Bracing Calculator

This interactive tool intends to aid in the design of the minimum braced wall panel length required for the houses based on resemin and wind forces.

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Effective R Calculator

Climate zone-appropriate insulated wall assembly solutions that are easily comparable with national and provincial energy efficiency prescriptive provisions.

	cwc.ca/design-tool/
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Wind & Seismic Bracing Calculator

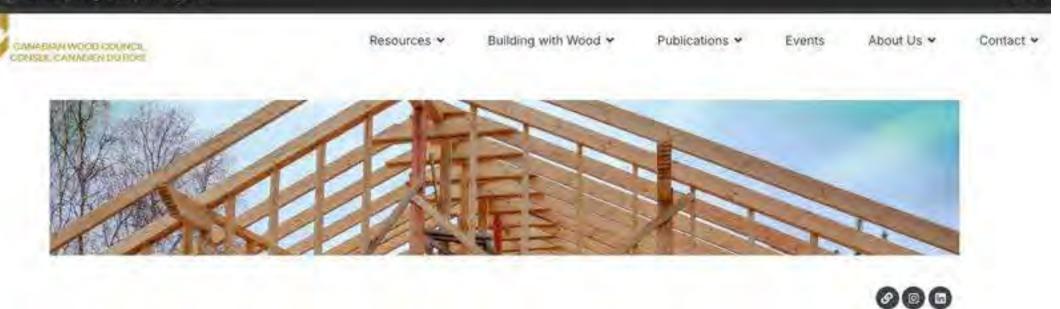
This interactive tool intends to aid in the design of the minimum braced wall panel

length required for the houses based on

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Effective R Calculator

Climate zone-appropriate insulated wall assembly solutions that are easily comparable with national and provincial energy efficiency prescriptive provisions.



The Wind and Seismic Bracing Calculator

This interactive tool intends to aid in the design of the minimum braced wall panel length required for the houses based on seismic and wind forces. It is based on requirements from the 2025 National Building Code of Canada.

This tool is intended for use by builders/designers who are experienced and familiar with wall bracing.

This calculator uses the following methods to determine the minimum braced wall panel length in a braced wall band:

Alternative Procedure [NBC Note A-9.23.13.9.(3) and (4)]: This is calculated using the following formulas to calculate the minimum braced wall panel length in a braced wall band for seismic and wind. The formula method will provide exact sizes based on the calculation results.

 Seismic:
 L_s = [C_{Sstorey} x C_{wells} + C_{root} x S (= (C_b x S_s + S_r) + 1.5)] x K_{Strame} x S_{max} x K_{weight} x K_{spacing} x K_{Snumber} x K_{gyp} x K_{sheath}

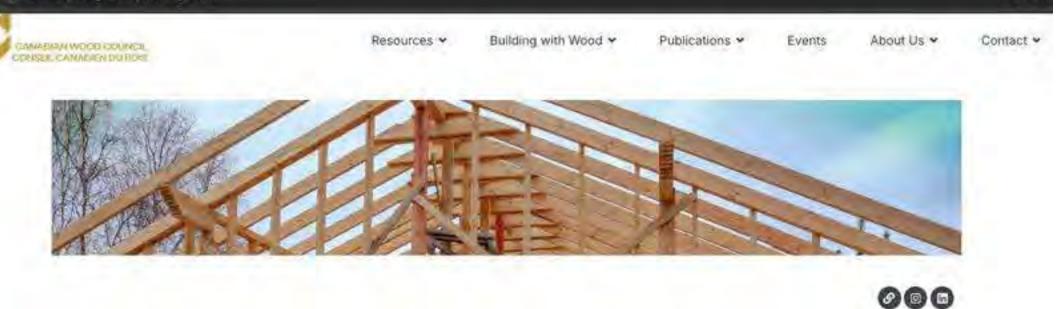
 Wind:
 L_w = C_{Wetorey} x K_{Wframe} x RHWP x K_{exp} x K_{root} x K_{Wspacing} x K_{Wnumber} x K_{gyp} x K_{sheath}

Table Method [NBC 9.23.13.9]: This calculator also uses a table method to determine the minimum braced wall panel length, found within NBC 9.23.13.9.

Source: Canadian Wood Council

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 Seismic:
 La = [C_{Sstorey} x C_{watts} + C_{root} x S (= [C_b x S_s + S_r) + 1.5)] x K_{Strame} x S_{max} x K_{weight} x K_{spacing} x K_{Snumber} x K_{gyp} x K_{sheath}

 Wind:
 L_w = C_{Wetorey} x K_{Wtrame} k RHWP k K_{exp} x K_{root} x K_{Wspacing} x K_{Wnumber} x K_{gyp} x K_{sheath}

Table Method [NBC 9.23.13.9]: This calculator also uses a table method to determine the minimum braced wall panel length, found within NBC 9.23.13.9.

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Seismic: L_{ii} = [C_{Satovey} x C_{walls} + C_{rool} x S (= (C_b x S₅ + S₇) + 1.5)] x K_{Straine} x S_{mas} x K_{weigri} x K_{spacing} x K_{Snummer} x K_{gyp} x K_{abeain} Wind: L_w = C_{Wstorey} x K_{Wtrame} x RHWP x K_{axp} x K_{rool} x K_{Wepacing} x K_{Woumber} x K_{gyp} x K_{sheath}

Table Method [NBC 9.23.13:9]: This calculator also uses a table method to determine the minimum braced wall panel length, found within NBC, 9.23.13.9.

STEP 1: INFOR	RMATION	
Project Information		
Project Name	BOABC Test	
Address	Nanaumo	
Builder	Tim Warner	
What load will you be ca	iculating?	
WIND SEISMIC	WIND + SEISMIC	
		1000

This interactive tool intends to aid in the design of the minimum braced wall panel length required for the houses based on seismic and wind forces. It is based on requirements from the 2025 National Building Code of Canada.

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Seismic: L_{ii} = [C_{Satovey} x C_{walls} + C_{rool} x S (= (C_b x S₅ + S₇) + 1.5)] x K_{Straine} x S_{mas} x K_{weigri} x K_{spacing} x K_{Snummer} x K_{gyp} x K_{abeain} Wind: L_w = C_{Wstorey} x K_{Wtrame} x RHWP x K_{axp} x K_{rool} x K_{Wepacing} x K_{Woumber} x K_{gyp} x K_{sheath}

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Project Information		
Project Name	BOABC Test	
Address	Nanaunio	
Builder	Tim Warner	
What load will you be ca	Iculating?	
WIND SEISMIC	WIND + SEISMIC	
		and the second sec
		10.07

STEP 1: INFORMATION

Project Information		
Project Name	BOABC Test	
Address	Nanaimo	
Builder	Tim Warner	
What load will you be calculating?		
WIND SEISMIC WIND	+ SEISMIC	
Choose or enter information		
Please choose or enter all items indicated	in *	
Location* (?)	Select a location	×
1 in 500 year hourly wind pressure (in kPa)* ②	(Select the location, first)	٣
Reference hourly wind pressure (in kPa)		
Site Class 🛞	Select one	×
Basic snow load roof factor ($C_{\rm p}$)* (?)	Select one	*
1 in 1000 year ground snow load (S ₅) (in kPa)* ②	(Select the location, first)	¥

STEP 1: INFORMATION

Project Information		
Project Name	BOABC Test	
Address	Nanaimo	
Builder	Tim Warner	
What load will you be calculating?		
WIND SEISMIC WIND	+ SEISMIC	
Choose or enter information		
Please choose or enter all items indicated	in *.	_
Location* (?)	Select a location	
1 in 500 year hourly wind pressure (in kPa)* ②	(Select the location, first)	
Reference hourly wind pressure (in kPa) (?)		
A TITLE IN		
Site Class (?)	Select one	×
Site Class (?) Basic snow load roof factor (C _b)* (?)	Select one	*

STEP 1: INFORMATIC

Project Information

Project Name

Address

Builder

What load will you be calculating?



Choose or enter information Please choose or enter all items indicate

Location* ③

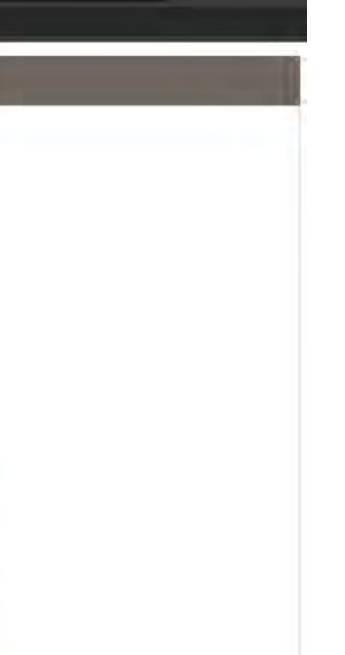
1 in 500 year hourly wind pressure (in kPa)* (?)

Reference hourly wind pressure (in kPa) (2)

Site Class (?)

Basic snow load roof factor (Co)* (?)

Dog Creek, BC Duncan, BC Elko, BC Femie, BC Fort Nelson, BC Fort St. John, BC Glacier, BC Gold River, BC Golden, BC Grand Forks, BC Greenwood, BC Hope, BC Jordan River, BC Kamloops, BC Kaslo, BC Kelowna, BC Kimberley, BC Kitimat Plant, BC Kitimat Townsite, BC Ladysmith, BC Langford, BC Lilloost, BC Lytton, BC Mackenzie, BC Masset, BC McBride, BC McLeod Lake, BC Merritt, BC Mission City, BC Montrose, BC Nakusp, BC. Nanaimo, BC Nelson, BC Ocean Falls, BC Osoyoos, BC Parksville, BC Penticton, BC Port Alberni, BC



STEP 1: INFORMATIC

Project Information

Project Name

Address

Builder

What load will you be calculating?



Choose or enter information Please choose or enter all items indicate

Location* ③

1 in 500 year hourly wind pressure (in kPa)* (?)

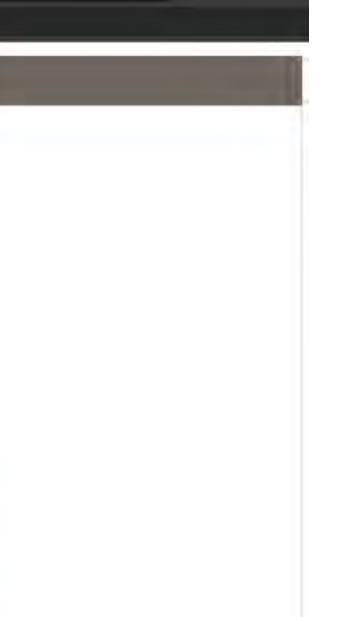
Reference hourly wind pressure (in kPa) (?)

Site Class (?)

Basic snow load roof factor (Co)* (?)

Dog Creek, BC Duncan, BC Elko, BC Femie, BC Fort Nelson, BC Fort St. John, BC Glacier, BC Gold River, BC Golden, BC Grand Forks, BC Greenwood, BC Hope, BC Jordan River, BC Kamloops, BC Kaslo, BC Kelowna, BC Kimberley, BC Kitimat Plant, BC Kitimat Townsite, BC Ladysmith, BC Langford, BC Lilloost, BC Lytton, BC Mackenzie, BC Masset, BC McBride, BC McLeod Lake, BC Merritt, BC Mission City, BC Montrose, BC Nakusp, BC Nanaimo, BC Nelson, BC Ocean Falls, BC Osoyoos, BC Parksville, BC Penticton, BC

Port Alberni, BC



Choose or enter information

Please choose or enter all items indicated in *.

Location* (?)

1 in 500 year hourly wind pressure (in kPa)* (?)

Reference hourly wind pressure (in kPa) (?)

Site Class (?)

Basic snow load roof factor (C_b)* (?) 1 in 1000 year ground snow load (S_s) (in

kPa)* ②

1 in 1000 year rain load (S_r) (in kPa)*

Specified Snow Load (in kPa)* (?)

Smax* 🕐

Nanalmo, BC	*
0.700	*
0.5	
Unknown (Max of Site Class A through E o	~
0.55	*
3,500	*
0,700	~

1.750 ~



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Choose or enter information			
Please choose or enter all items indicated	in *.		
Location* ③	Nanalmo, BC	*	
1 in 500 year hourly wind pressure (in kPa)* ②	0.700	*	-
Reference hourly wind pressure (in kPa) ①	0.5		
Site Class ⑦	Unknown (Max of Site Class A through E o	*	
Basic snow load roof factor (C _b)* ⑦	0.55	*	(proposed) NBC2025 design values
1 in 1000 year ground snow load (S _s) (in kPa)* (?)	3.500	*	
1 in 1000 year rain load (S _r) (in kPa)*	0.700	*	
Specified Snow Load (in kPa)* ⑦	1.750	*	
Smax* (?)	1.550	÷	



1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a provincial a	
Location* (?)	Nanaimo, BC	ř
1 in 500 year hourly wind pressure (in	(Select the location, first) v 0.700	ŀ
kPa)* 🧿	Enter a custom value →	
Reference hourly wind pressure (in	0.5	
(Pa) 🕐		
Site Class 🕐	Unknown (Max of Site Class A through E o	*
lasic snow load roof factor (C _b)* ⑦	0,55	~
in 1000 year ground snow load (S_s) (in	3.500	¥
Pa)* ③		
in 1000 year rain load (S _r) (in kPa)*	0.700	
3		
pecified Snow Load (in kPa)* 🕐	1.750	¥
max* ③	1.550	

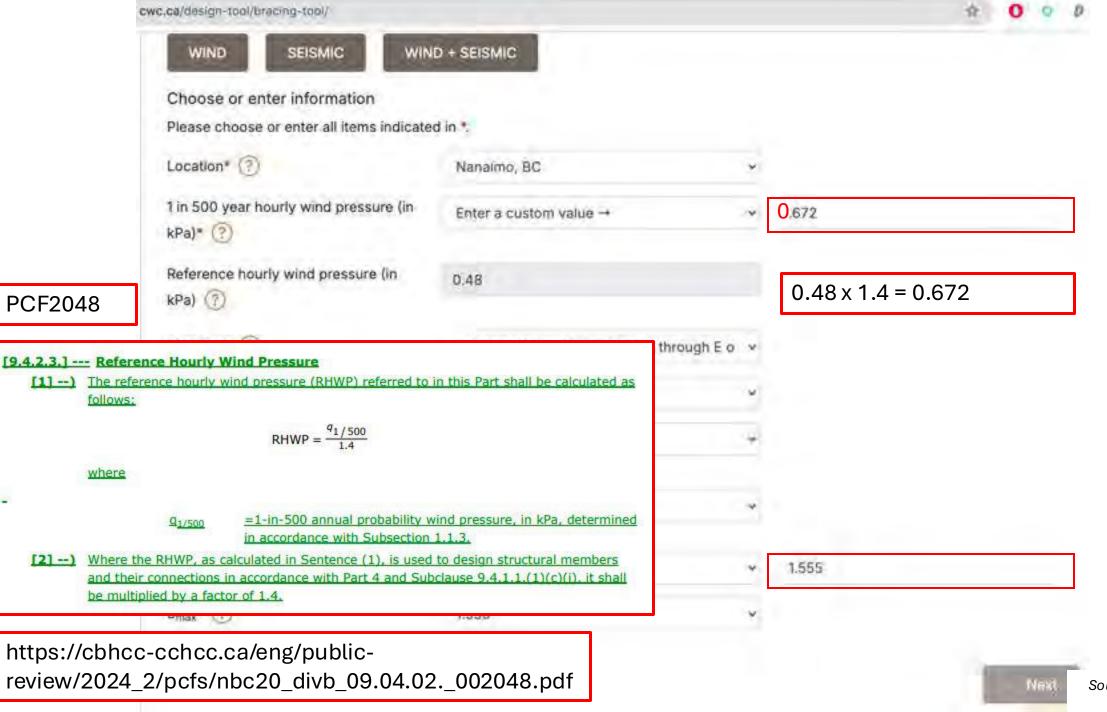
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Choose or enter information Please choose or enter all items indicated in *. Location* (?) Nanaimo, BC (Select the location, first) 1 in 500 year hourly wind pressure (in / 0.700 kPa)* (?) Enter a custom value -> Reference hourly wind pressure (in 0.5 kPa) 🕐 Site Class (?) Unknown (Max of Site Class A through E o 👻 Basic snow load roof factor (Cb)* (?) 0,55 1 in 1000 year ground snow load (Ss) (in 3,500 ω, kPa)* (?) 1 in 1000 year rain load (Sr) (in kPa)* 0.700 2 Specified Snow Load (in kPa)* (?) 1.750 ~ Smax* ? 1.550



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WIND SEISMIC WINE	D + SEISMIC						
Choose or enter information							
Please choose or enter all items indicated	t in *.						
Location* (?)	Nanaimo, BC	*					
1 in 500 year hourly wind pressure (in kPa)* ②	Enter a custom value →	×	0.672				
Reference hourly wind pressure (in kPa) ⑦	0.48						
Site Class (?)	Unknown (Max of Site Class A through E o	×					
Basic snow load roof factor (Cb)* (?)	0.55	v					
1 in 1000 year ground snow load (S _s) (in kPa)* (?)	3.500	÷					
1 in 1000 year rain load (Sr) (in kPa)*	0.700	*					
Specified Snow Load (in kPa)* 💿	Enter a custom value →	*	1.555				
Smax* ③	1.550	۲					
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WIND SEISMIC WINE	+ SEISMIC						
Choose or enter information							
Please choose or enter all items indicated	l in *.						
Location* (?)	Nanaimo, BC	¥					
1 in 500 year hourly wind pressure (in kPa)* (?)	Enter a custom value -+	Ŷ	0.672				
Reference hourly wind pressure (in kPa) (7)	0.48						
Site Class (?)	Unknown (Max of Site Class A through E o	×					
Basic snow load roof factor (Cb)* (?)	0.55	v					
1 in 1000 year ground snow load (S _s) (in kPa)* (?)	3.500	÷					
1 in 1000 year rain load (S _r) (in kPa)*	0.700	*					
Specified Snow Load (in kPa)* (2)	Enter a custom value →	¥	1.555				
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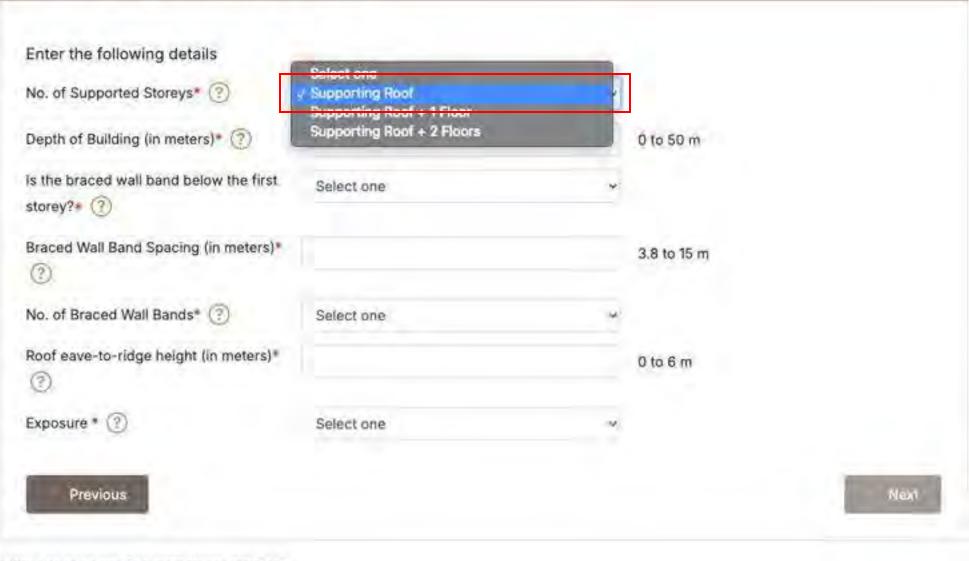
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STEP 2: BUILDING DETAILS

Enter the following details Select one No. of Supported Storeys* (?) Supporting Roof Supporting Roof + 1 Floor Supporting Roof + 2 Floors Depth of Building (in meters)* (?) 0 to 50 m is the braced wall band below the first. Select one storey?* (?) Braced Wall Band Spacing (in meters)* 3.8 to 15 m (2) No. of Braced Wall Bands* (?) Select one Roof eave-to-ridge height (in meters)* 0 to 6 m 3 Exposure * (?) Select one 14 Previous

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STEP 2: BUILDING DETAILS



Enter the following details				
No. of Supported Storeys* 🕐	Supporting Roof	*		
Depth of Building (in meters)* 🕐	10		0 to 50 m	
Is the braced wall band below the first storey?* ③	Select one	×		
Braced Wall Band Spacing (in meters)*			3.8 to 15 m	
No. of Braced Wall Bands* ⑦	Select one			
Roof eave-to-ridge height (in meters)*			0 to 6 m	
Exposure * 🕐	Select one	1.10		
Previous				Next

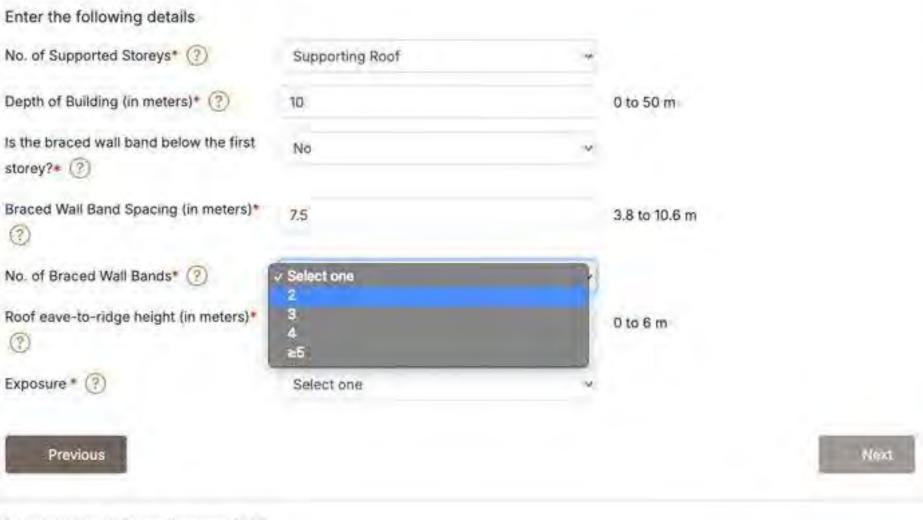
Supporting Roof	*	
10		0 to 50 m
Select one	×	
		3.8 to 15 m
Select one	*	
		0 to 6 m
Select one	1.1	
		Next
	10 Select one Select one	10 Select one

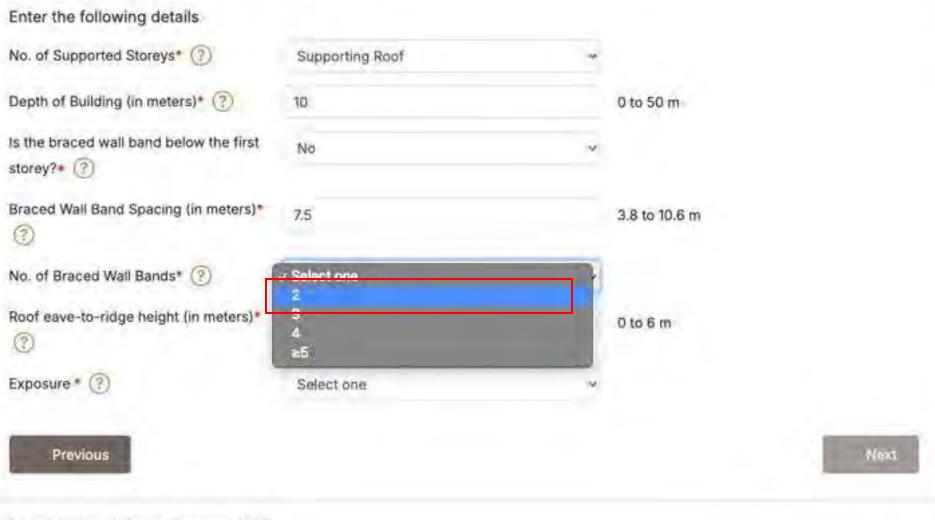
Enter the following details				
No. of Supported Storeys* (2)	Supporting Roof	v		
Depth of Building (in meters)* (?)	10		0 to 50 m	
Is the braced wall band below the first storey?* (?)	✓ Select one Yes No			
Braced Wall Band Spacing (in meters)*		-	3.8 to 15 m	
No. of Braced Wall Bands* (?)	Select one	×		
Roof eave-to-ridge height (in meters)*			0 to 6 m	
Exposure * ⑦	Select one	*		
Previous				Next.

Supporting Roof			
10		0 to 50 m	
✓ Select one Yes No.			
		3.8 to 15 m	
Select one	×		
		0 to 6 m	
Select one			
			Next.
	10 V Select one Ver No Select one	10 Ver No Select one	10 0 to 50 m Ver No Select one Select one 0 to 6 m

Enter the following details No. of Supported Storeys* (?) Supporting Roof v Depth of Building (in meters)* (?) 10 0 to 50 m No Is the braced wall band below the first storey?* (?) Braced Wall Band Spacing (in meters)* 7.5 3.8 to 10.6 m 0 No. of Braced Wall Bands* (?) Select one v. Roof eave-to-ridge height (in meters)* 0 to 6 m 2 Exposure * (?) Select one Nert Previous

Enter the following details				
No. of Supported Storeys* ⑦	Supporting Roof	×		
Depth of Building (in meters)* 🕐	10		0 to 50 m	
Is the braced wall band below the first storey?* ②	No	v		
Braced Wall Band Spacing (in meters)*	7.5		3.8 to 10.6 m	
No. of Braced Wall Bands* ⑦	Select one	Ű.		
Roof eave-to-ridge height (In meters)*			0 to 6 m	
Exposure * (?)	Select one			
Previous				Nen





Enter the following details			
No. of Supported Storeys* (2)	Supporting Roof		
Depth of Building (in meters)* ③	10		0 to 50 m
Is the braced wall band below the first storey?* (?)	No	٩	
Braced Wall Band Spacing (in meters)*	7.5		3.8 to 10.6 m
No. of Braced Wall Bands* ③	2		
Roof eave-to-ridge height (in meters)*	1.5	2	0 to 6 m
Exposure * (?)	Select one		
Previous			Nest

Enter the following details					
No. of Supported Storeys* (2)	Supporting Roof	*			
Depth of Building (in meters)* ③	10	0	to 50 m		
Is the braced wall band below the first storey?* (?)	No				
Braced Wall Band Spacing (in meters)*	7.5	3.	8 to 10.6 m		
No. of Braced Wall Bands* (?)	2				
Roof eave-to-ridge height (in meters)*	1.5	0	to 6 m		
Exposure * (?)	Select one	×			
Previous				I	Next

Previous			Né	ent (
Exposure * 🥐	✓ Select one Rough Open			_
Roof eave-to-ridge height (in meters)*	1.5		0 to 6 m	
No. of Braced Wall Bands* (?)	2	*		
Braced Wall Band Spacing (in meters)*	7.5		3.8 to 10.6 m	
Is the braced wall band below the first storey?* ②	No	~		
Depth of Building (in meters)* 🕐	10		0 to 50 m	
No. of Supported Storeys* (?)	Supporting Roof	*		
Enter the following details				

Enter the following details				
No. of Supported Storeys* ③	Supporting Roof	*		
Depth of Building (in meters)* (?)	10		0 to 50 m	
Is the braced wall band below the first storey?* ②	No	~		
Braced Wall Band Spacing (in meters)*	7.5	_	3.8 to 10.6 m	
No. of Braced Wall Bands* ②	2	*		
Roof eave-to-ridge height (in meters)*	1.5		0 to 6 m	
Exposure * ⑦	v Select one Rough Open			
Previous				Next

Select one	e e	
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Select one	~	
		Next
	Select one	Select one

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rame Type* (?)	WSP-A	~	
	ALC: IT		
s interior gypsum board installed?*	✓ Select one		
3	Included		
	Omitted		
heathing Installed* (?)	Select one	×	
Veight of Construction* (?)	Select one	M ⁻	
Previous			Next.

Source: Canadian Wood Council

rame Type* (?)	WSP-A	~	
interior gypsum board installed?*	Select one	· · ·	
2	Included		
	Omitted		
neathing Installed* (?)	Select one	×.	
eight of Construction* (?)	Select one	v	
			Concession of the local division of the loca
Previous			Next.

Frame Type* 🕐	WSP-A	~	
s interior gypsum board installed?*	Included	*	
Sheathing Installed* 📀	✓ Select one Yes (Continuous)		
Weight of Construction* (?)	No (Intermittent)		
			-
Previous			Next

Source: Canadian Wood Council

Frame Type* 🕐	WSP-A	~	
s interior gypsum board installed?*	Included	~	
Sheathing Installed* 🕐	Yes (Continuous)		
Weight of Construction* (?)	No (internationt)		
Previous			Next
			and the second

Source: Canadian Wood Council

WSP-A

Enter the following details

```
Frame Type* (?)
Is interior gypsum board installed?*
(?)
Sheathing Installed* (?)
Weight of Construction* (?)
Previous
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```

Included	*
Yes (Continuous)	×
✓ Select one	1
Normal Heavy	
Brick 1 face, fully clad Brick 1 face, partially clad	
Brick 2 face, fully clad Brick 2 face, partially clad	
Stone 1 face, fully clad Stone 1 face, partially clad	
Stone 2 face, fully clad	

Stone 2 face, partially clad



Enter the following details

9
Sheathing Installed* (2)
Weight of Construction* (?)
Previous

WSP-A	*
Included	*
Yes (Continuous)	×
Selections	-
Normal Heavy Brick 1 face, fully clad Brick 1 face, partially clad Brick 2 face, fully clad Brick 2 face, partially clad Stone 1 face, partially clad Stone 1 face, partially clad Stone 2 face, partially clad	



STEP 4: BRACED WALL PANEL LENGTH

Braced Wall Panel Length in Braced Wall Band based on Wind and Seismic Load

Depth of Building

10 m

Alternative Procedure Result for WSP-A: (?)

	L _s (Seismic)	L _w (Wind)
Supporting roof 🕑	2.06	0.95
Supporting roof + 1 floor		
Supporting roof + 2 floors		
	20.58% of Depth of Building	9.46% of Depth of Building

Table Result for WSP-A: 🕐

	L _s (Seismic)	L _w (Wind)
Supporting roof 🥝	2.32	0.98
Supporting roof + 1 floor		
Supporting roof + 2 floors		
	23.24% of Depth of Building	9,75% of Depth of Building

STEP 4: BRACED WALL PANEL LENGTH

Braced Wall Panel Length in Braced Wall Band based on Wind and Seismic Load

Depth of Building

10 m

Alternative Procedure Result for WSP-A: (?)

	L _s (Seismic)	L _w (Wind)			
Supporting roof 🥑	2.06	0.95			
Supporting roof + 1 floor					
Supporting roof + 2 floors					
	20.58% of Depth of Building	9.46% of Depth of Building			

	L _s (Seismic)	L _w (Wind)		
Supporting roof 🥝	2.32	0.98		
Supporting roof + 1 floor				
Supporting roof + 2 floors				
	23.24%	9,75%		
	of Depth of Building	of Depth of Building		

cwc.ca/design-tool/bracing-tool/

	Seismic		Wind
s	1.555	HWP	0.672
Smax	1.550	RHWP	0.480
S _{max} Range	1,200 < S _{max} ≤ 1.600	RHWP Range	0.400 < HWP ≤ 0.500
C _{Sstotey}	1.000	CWstorey	3.840
Croot	0.286	Kwtrame	1.000
Cwaits	0.897	Kroot	0.520
Kstrame	1.000	Knumber	1.000
Knumber	1.000	Kwspacing	0.987
KSspacing	0.989	K _{gyp}	1.000
Kgyp	1.000	Kwsheath	1.000
Ksheath	1.000	Kexp	1.000
Kweight	1.000	Luw	1.900
Ksnow	1.000	Lw	0.946
Lus	2.349		
La	2.058		

Source: Canadian Wood Council

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cwc.ca/design-tool/bracing-tool/

	Seismic		Wind
S	1.555	HWP	0.672
Smax	1.550	RHWP	0.480
S _{max} Range	1.200 < S _{max} ≤ 1.600	RHWP Range	0.400 < HWP ≤ 0.500
C _{Sstorey}	1.000	CWstorey	3.840
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Kstrame	1.000	Knumber	1.000
K _{number}	1.000	Kwspacing	0.987
KSspacing	0.989	K _{gyp}	1.000
Kgyp	1.000	Kwsheath	1.000
Ksheath	1.000	K _{exp}	1.000
Kweight	1.000	Luve	1.900
Ksnow	1.000	Lw	0.946
Lus	2.349		
JT La	2.058		

Source: Canadian Wood Council

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Part 9 Bracing Calculator

https://www.part9bracing.ca/

Part 9 Bracing Calculator

Background and Purpose

part9bracing.ca

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Welcome!

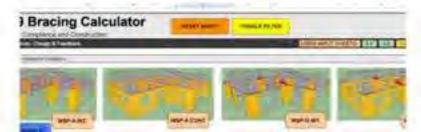
Here you will find access to the Part 9 Bracing Calculator!

WHAT'S NEW?

This project continues to develop and grow. Recently, I've made some changes to the site to include;

- Dynamic Checklists
- Recorded Video Tutorials
- · New FAQs
- Part 9 Bracing Calculator beta 1.04.1 which includes new functionality for site specific seismic and climate data for any location in BC.

MAIN CONTENT



Part 9 Bracing Calculator

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Welcome!

Here you will find access to the Part 9 Bracing Calculator!

WHAT'S NEW?

This project continues to develop and grow. Recently, I've made some changes to the site to include:

- Dynamic Checklists
- Recorded Video Tutorials
- . New FAQs
- · Part 9 Bracing Calculator beta 1.04.1 which includes new functionality for site specific seismic and climate data for any location in BC.

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ACCESS INSTRUCTIONS

DISCLAIMER

Last Updated: April 10, 2025

The Part 9 Bracing Calculator is a reference tool designed to assist in understanding and applying lateral bracing requirements under the 2024 BC Building Code (Part 9).

This tool is not an official building code document and does not replace the need for professional judgment, site-specific engineering, or approval from the local authority having jurisdiction.

The developer assumes no liability for any errors, omissions, or consequences arising from the use of this tool. Users accept full responsibility for how the tool is applied and how its outputs are interpreted.

Always confirm results with a qualified professional and your local building authority.

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The developer assumes no liability for any errors, omissions, or consequences arising from the use of this tool. Users accept full responsibility for how the tool is applied and how its outputs are interpreted.

Always confirm results with a qualified professional and your local building authority.

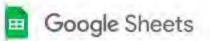
By downloading, you acknowledge and accept this Disclaimer, as well as the Terms of Use and Privacy Policy.



Watch the beta_1.01 demo below. Please note that the calculator has been updated since this recording, and there are some changes to the layout and setup in the calculator. Please review this video for details on setting up the calculator. Updates are tracked through the Version History.

Part 9 Bracing Calculator			
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docs.google.com/spreadsheets/d/1t3pEHzvaLsz12dvz8aVGzhib4RitzXorhp4guY9cTzs/copy



Copy document

A The attached Apps Script file and functionality will also be copied

Would you like to make a copy of Part9BracingCalculator_beta_1.041?





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For Design, Compliance and Construction		
Sheet (I-1): Inputs - General		USER INPUT SHEETS: I-1 I-2 I-3 I-4 R-4
Administrative Information		Calculator Feedback:
Address	411 Dunsmuir St, Nanaimo BC	
Permit/File/Reference Number	BP_9999999	
Calculations Completed by (Name)	Tim Warner	
Calculations Completed by (Contact Information)	lwamer@boabc.org	
Site and Environmental Conditions		
Site Design Location (see hover note)		Click here to anter <custom location=""> elimete and seismic data</custom>
Site Class		
Site Exposure		
Specified Snow Load (kPa)	#N/A	
HWP (1/50)	#N/A	
HWP Range Identifier	#N/A	
Smax	#N/A	
Smax Range Identifier	#N/A	
Design Parameters - Overall Building		
Weight of Construction		
Sheathing Continuity		
Number of wood-framed floors?		
Foundation Type		
Describe exterior walls supporting lowest wood-framed floor:		
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?		1

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Part 9 Bracing Ca		CALCULATO	beta_1.041
For Design, Compliance and Constructi	on		
Sheet (I-1): Inputs - General			USER INPUT SHEETS: I-1 I-2 I-3 I-4 R-4
Administrative Information			Calculator Feedback:
Address	411 Dunsmuir St, Nanaimo BC		
Permit/File/Reference Number	BP_9999999		
Calculations Completed by (Name)	Tim Warner		
Calculations Completed by (Contact Information)	Iwamer@boabc.org		
Site and Environmental Conditions			
Site Design Location (see hover note)		+	Click hure to enter <custom location=""> climate and seismic data</custom>
Site Class			
Site Exposure		57	
Specified Snow Load (kPa)	#N/A		1
HWP (1/50)	#N/A		
HWP Range Identifier	#N/A		
Smax	#N/A		
Smax Range Identifier	#N/A		
Design Parameters - Overall Building			
Weight of Construction		-	
Sheathing Continuity		-	
Number of wood-framed floors?		-	
Foundation Type		*	
Describe exterior walls supporting lowest wood-framed floor:		-	
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?			

Part 9 Bracing Cal For Design, Compliance and Construction		beta_1.041
Sheet (I-1): Inputs - General		USER INPUT SHEETS: I-1 I-2 I-3 I-4 R-4
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Administrative Information		Calculator Feedback:
Address	411 Dunsmuir St, Nanaimo BC	
Permit/File/Reference Number	BP_9999999	
Calculations Completed by (Name)	Tim Warner	
Calculations Completed by (Contact Information)	twarner@boabc.org	
Site and Environmental Conditions		
Site Design Location (see hover note)	N	Click here to shiel «Custom Location» climate and seismic data
Site Class	Fort Nelson	
Site Exposure		
Specified Snow Load (kPa)	Nakusp	
HWP (1/50)	Nanaimo	
HWP Range Identifier		
Smax	Nelson	
Smax Range Identifier	New Westminster	
	North Vancouver	
Design Parameters - Overall Building	North Valicouver	
Weight of Construction		7
Sheathing Continuity		7
Number of wood-framed floors?		*
Foundation Type		
Describe exterior walls supporting lowest wood-framed floor:		*
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?		-

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Part 9 Bracing Cal	culator RESET SHEET RESET CALCULATO	Beta_1.041
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Sheet (I-1): Inputs - General		USER INPUT SHEETS: I-1 I-2 I-3 I-4 R-4
Administrative Information		Calculator Feedback:
Address	411 Dunsmuir St, Nanaimo BC	
Permit/File/Reference Number	BP_9999999	
Calculations Completed by (Name)	Tim Warner	
Calculations Completed by (Contact Information)	lwamer@boabc.org	
Site and Environmental Conditions		
Site Design Location (see hover note)	N	Click here to shiel <custom location="">_climate and seismic data</custom>
Site Class	Fort Nelson	9
Site Exposure		
Specified Snow Load (kPa)	Nakusp	
HWP (1/50)	Nanaimo	
HWP Range Identifier		
Smax	Nelson	
Smax Range Identifier	New Westminster	
Design Parameters - Overall Building	North Vancouver	
Weight of Construction		
Sheathing Continuity		
Number of wood-framed floors?	÷	
Foundation Type		
Describe exterior walls supporting lowest wood-framed floor:		
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?	-	

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Part 9 Bracing Cal	CUIATOR RESET SHEET RESET CALCUL	ATOR beta_1.041
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Sheet (I-1): Inputs - General		USER INPUT SHEETS: I-1 I-2 I-3 I-4 R-4
Administrative Information		Calculator Feedback:
Address	411 Dunsmuir St, Nanaimo BC	
Permit/File/Reference Number	BP_9999999	
Calculations Completed by (Name)	Tim Warner	
Calculations Completed by (Contact Information)	twamer@boabc.org	
Site and Environmental Conditions		
Site Design Location (see hover note)	Nanaimo	 Click here to enter <custom location="">climate anti seismic data</custom>
Site Class		
Site Exposure	A	
Specified Snow Load (kPa)		Roof width assumed to be >4.3m.
HWP (1/50)	B	
HWP Range Identifier	c	
Smax	2	
Smax Range Identifier	D	
	E	
Design Parameters - Overall Building		
Weight of Construction	Unknown	
Sheathing Continuity		1
Number of wood-framed floors?		
Foundation Type		*
Describe exterior walls supporting lowest wood-framed floor:		•
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?		

Part 9 Bracing Cal	CUIATOR RESET SHEET RESET CALCULATE	beta_1.041
For Design, Compliance and Construction		
Sheet (I-1): Inputs - General		USER INPUT SHEETS: I-1 I-2 I-3 I-4 R-4
Administrative Information		Calculator Feedback:
Address	411 Dunsmuir St, Nanaimo BC	
Permit/File/Reference Number	BP_9999999	
Calculations Completed by (Name)	Tim Warner	
Calculations Completed by (Contact Information)	twarner@boabc.org	
Site and Environmental Conditions		
Site Design Location (see hover note)	Nanaimo	Click here to enter < Custom Location > climate and seismic data
Site Class		
Site Exposure	A	
Specified Snow Load (kPa)		Roof width assumed to be >4.3m.
HWP (1/50)	B	
HWP Range Identifier	c	
Smax		
Smax Range Identifier	D	
	E	
Design Parameters - Overall Building	Unknown	
Weight of Construction	Unknown	
Sheathing Continuity		
Number of wood-framed floors?	<i>u</i>	
Foundation Type		
Describe exterior walls supporting lowest wood-framed floor:		
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?	-	

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Sheet (I-1): Inputs - General		USER INPUT SHEETS: I-1 I-2 I-3 I-4 R-4
Administrative Information		Calculator Feedback:
Address	411 Dunsmuir St, Nanaimo BC	
Permit/File/Reference Number	BP_9999999	
Calculations Completed by (Name)	Tim Warner	
Calculations Completed by (Contact Information)	(warner@boabc.org	
Site and Environmental Conditions		
Site Design Location (see hover note)	Nanaimo	Click here to enter <custom location=""> climate and seismic data</custom>
Site Class	Unknown	
Site Exposure		
Specified Snow Load (kPa)	Rough Terrain	Roof width assumed to be >4.3m.
HWP (1/50)		
HWP Range Identifier	Open/Unknown Terrain	
Smax		
Smax Range Identifier		
Design Parameters - Overall Building		1
Weight of Construction		
Sheathing Continuity		
Number of wood-framed floors?		
Foundation Type		
Describe exterior walls supporting lowest wood-framed floor:	+	
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?	+	

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🔒 (1-3) Design & Feedback 🤫

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Part 9 Bracing Cal	CUIATOR RESET SHEET RESET CALCULATO	beta_1.041
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Sheet (I-1): Inputs - General		USER INPUT SHEETS: I-1 I-2 I-3 I-4 R-4
Administrative Information		Calculator Feedback:
Address	411 Dunsmuir St, Nanaimo BC	
Permit/File/Reference Number	BP_9999999	
Calculations Completed by (Name)	Tim Warner	
Calculations Completed by (Contact Information)	(warner@boabc.org	
Site and Environmental Conditions		
Site Design Location (see hover note)	Nanaimo	Click here to enter <custom location=""> climate and seismic data</custom>
Site Class	Unknown	
Site Exposure		
Specified Snow Load (kPa)	Rough Terrain	Roof width assumed to be >4.3m.
HWP (1/50)		
HWP Range Identifier	Open/Unknown Terrain	
Smax		
Smax Range Identifier	0	
Design Parameters - Overall Building		Ĵ Ē
Weight of Construction		
Sheathing Continuity		
Number of wood-framed floors?		
Foundation Type		
Describe exterior walls supporting lowest wood-framed floor:	+	
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?	+	

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Part 9 Bracing Cal For Design, Compliance and Construction		RESET CALCULATOR	beta_1.041
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Address	411 Dunsmuïr St, Nanaïmo BC		
Permit/File/Reference Number	BP_9999999		
Calculations Completed by (Name)	Tim Warner		
Calculations Completed by (Contact Information)	(warner@boabc.org		
Site and Environmental Conditions			
Site Design Location (see hover note)	Nanaimo	,	Click here to enter <custom location=""> climate and seismic data</custom>
Site Class	Unknown	7	
Site Exposure	Rough Terrain		
Specified Snow Load (kPa)	1.555		Roof width assumed to be >4.3m.
HWP (1/50)	0.480		
HWP Range Identifier	0.4 < HWP ≤ 0.5		
Smax	1.550		
Smax Range Identifier	1.2 < Smax ≤ 1.6		
Design Parameters - Overall Building			
Weight of Construction		-	
Sheathing Continuity		-	
Number of wood-framed floors?		+	
Foundation Type		7	
Describe exterior walls supporting lowest wood-framed floor:		*	
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?		+	

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🔒 (I-3) Design & Feedback 🥣

Part 9 Bracing Cal For Design, Compliance and Construction		SET CALCULATOR	beta_1.041
Sheet (I-1): Inputs - General			USER INPUT SHEETS: I-1 I-2 I-3 I-4 R-4
Administrative Information		10	Calculator Feedback:
Address	411 Dunsmulir St, Nanaimo BC		
Permit/File/Reference Number	BP_9999999		
Calculations Completed by (Name)	Tim Warner		
Calculations Completed by (Contact Information)	(warner@boabc.org		
Site and Environmental Conditions			
Site Design Location (see hover note)	Nanaimo	,	Click here to enter <custom location=""> climate and seismic data</custom>
Site Class	Unknown	-	
Site Exposure	Rough Terrain	4	
Specified Snow Load (kPa)	1.555		Roof width assumed to be >4.3m.
HWP (1/50)	0.480		
HWP Range Identifier	0.4 < HWP ≤ 0.5		
Smax	1.550		
Smax Range Identifier	1.2 < Smax ≤ 1.6		
Design Parameters - Overall Building		1	
Weight of Construction		-	
Sheathing Continuity			
Number of wood-framed floors?		+	
Foundation Type		7	
Describe exterior walls supporting lowest wood-framed floor:		Ŧ	
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?		+	

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🔒 (I-2) Bands 🝷 🔒 (I-3) Design & Feedback 🝷

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	Roof width assumed to be >4.3m.
≤ 0.5	
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Neight Construction	
aight Construction	
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~	\$0.5 <\$1.6

	Tim Warner	4
calculations Completed by (Contact Information)	Iwamar@boxbc.org	
Site and Environmental Conditions		
Site Design Location (see hover note)	Nanaimo	Click here to enter <custom location=""> climate and seismic data</custom>
Site Class	Unknown	
Site Exposure	Rough Terrain T	
Specified Snow Load (kPa)	1,555	Roof width assumed to be >4.3m.
HWP (1/50)	0.480	
HWP Range Identifier	0.4 < HWP ≤ 0.5	
Smax	1.550	
Smax Range Identifier	1.2 < Smax ≤ 1.6	
Design Parameters - Overall Building		
Neight of Construction		
sheathing Continuity	Normal Weight Construction	
Number of wood-framed floors?		
Foundation Type	Heavy Weight Construction	
Describe exterior walls supporting lowest wood-framed floor:	0	
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?	-	
Maximum length of exterior and interior wood-framed walls supporting lowest wood-framed floor?	-	
s a Basement/Crawlspace <u>required</u> to be designed as a Braced Storey?	No	
Designate Basement/Crawlspace as a Braced Storey?		

Calculations Completed by (Name)	Tim Warner	
Calculations Completed by (Contact Information)	[warnin@boabc.urg	
Site and Environmental Conditions		
Site Design Location (see hover note)	Nanaimo	Click here to enter < Custom Location + plimate and suismic data
Site Class	Unknown	
Site Exposure	Rough Terrain	
Specified Snow Load (kPa)	1.555	Roof width assumed to be >4.3m.
HWP (1/50)	0.480	
HWP Range Identifier	0.4 < HWP < 0.5	
Smax	1.550	
Smax Range Identifier	1.2 < Smax \$ 1.6	
		1
Design Parameters - Overall Building		
Neight of Construction	Normal Weight Construction	All Braced Storeys are Normal Weight Construction
Sheathing Continuity		
Number of wood-framed floors?	Continuous	
Foundation Type	Intermittent	
Describe exterior walls supporting lowest wood-framed floor:	Continuous/Intermittent	
Maximum height of exterior and interior wood-framed walls		
supporting lowest wood-framed floor?	1	
Maximum length of exterior and interior wood-framed walls supporting lowest wood-framed floor?		
s a Basement/Crawlspace <u>required</u> to be designed as a Braced Storey?	No	
Designate Basement/Crawlspace as a Braced Storey?	-	

Calculations Completed by (Name)	Tim Warner	
Calculations Completed by (Contact Information)	twerner@boabc.urg	
Site and Environmental Conditions		
Site Design Location (see hover note)	Nanaimo	Click here to enter < Custom Location > climate and seismic data
		Circle here to enter A Guistom Epication & crimate and Seismic pata
Site Class	Unknown	
Site Exposure	Rough Terrain	
Specified Snow Load (kPa)	1.555	Roof width assumed to be >4.3m.
HWP (1/50)	0.480	
HWP Range Identifier	0.4 < HWP < 0.5	
Smax	1.550	
Smax Range Identifier	1.2 < Smax \$ 1.6	
Design Parameters - Overall Building		
Weight of Construction	Normal Weight Construction	All Braced Storeys are Normal Weight Construction
Sheathing Continuity		
Number of wood-framed floors?	Continuous	
Foundation Type		
Describe exterior walls supporting lowest wood-framed floor:	Continuous/Intermittent	
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?		
Maximum length of exterior and interior wood-framed walls supporting lowest wood-framed floor?	*	
s a Basement/Crawlspace <u>required</u> to be designed as a Braced Storey?	No	
Designate Basement/Crawlspace as a Braced Storey?		

	Tim Warner	
Calculations Completed by (Contact Information)	iwamer@boabclarg	
Site and Environmental Conditions		
Site Design Location (see hover note)	Nanaimo	Click here to enter <custom and="" climate="" data<="" locations="" seismic="" td=""></custom>
Site Class	Unknown	
Site Exposure	Rough Terrain	
Specified Snow Load (KPa)	1.555	Roof width assumed to be >4.3m.
HWP (1/50)	0.480	
HWP Range Identifier	0.4 < HWP < 0.5	
Smax	1.550	
Smax Range Identifier	1.2 < Smax ≤ 1.6	
Design Parameters - Overall Building		
Neight of Construction	Normal Weight Construction	All Braced Storeys are Normal Weight Construction
Sheathing Continuity	Continuous +	All Bands in all Braced Storeys are Continuously Sheathed
Number of wood-framed floors?		
Foundation Type	0	
Describe exterior walls supporting lowest wood-framed floor:		
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?	2	
Maximum length of exterior and interior wood-framed walls supporting lowest wood-framed floor?	3	
s a Basement/Crawlspace <u>required</u> to be designed as a Braced Storey?	No	
Designate Basement/Crawlspace as a Braced Storey?	+	

Calculations Completed by (Name)	Tim Warner	
Calculations Completed by (Contact Information)	iwamer@boebc.org	
Site and Environmental Conditions		
Site Design Location (see hover note)	Nanaimo	Click liere to enter «Cuation» climate and seismic date
Site Class	Unknown	
Site Exposure	Rough Terrain	
Specified Snow Load (kPa)	1.555	Roof width assumed to be >4.3m.
HWP (1/50)	0.480	
HWP Range Identifier	0.4 < HWP ≤ 0.5	
Smax	1.550	
Smax Range Identifier	1.2 < Smax ≤ 1.6	
Design Parameters - Overall Building		
Weight of Construction	Normal Weight Construction	All Braced Storeys are Normal Weight Construction
Sheathing Continuity	Continuous	All Bands in all Braced Storeys are Continuously Sheathed
Number of wood-framed floors?		
oundation Type	0	
Describe exterior walls supporting lowest wood-framed floor:		
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?	2	
Maximum length of exterior and interior wood-framed walls supporting lowest wood-framed floor?	3	
s a Basement/Crawlspace <u>required</u> to be designed as a Braced Storey?	No	
Designate Basement/Crawlspace as a Braced Storey?		

9	Click hure to enter < Gustom Location> climate and sessmic data
	Click hure to enter -Custom Location> climate and exemic data
	Click hure to enter < Gustom Location> climate and sessinic data
	Roof width assumed to be >4.3m.
nstruction +	All Braced Storeys are Normal Weight Construction
*	All Bands in all Braced Storeys are Continuously Sheathed
	Instruction

alculations Completed by (Contact Information)	Varner@boabc.org	
ite and Environmental Conditions	ani un februarienta	
the and Environmental Conditiona		
ite Design Location (see hover note)	anaimo	Click hure to enter -: Custom Location> climate and seismic data
ite Class U	nknown -	
ite Exposure R	ough Terrain -	
pecified Snow Load (kPa) 1.	.555	Roof width assumed to be >4.3m.
WP (1/50) 0.	480	
WP Range Identifier 0.	.4 < HWP ≤ 0.5	
max 1.	550	
max Range Identifier 1.	2 < Smax ≤ 1.6	
esign Parameters - Overall Building		
	ormal Weight Construction +	All Braced Storeys are Normal Weight Construction
	ontinuous	All Bands in all Braced Storeys are Continuously Sheathed
umber of wood-framed floors?0		
oundation Type		
escribe exterior walls supporting lowest wood-framed floor:	Slab-on-Grade	
laximum height of exterior and interior wood-framed walls upporting lowest wood-framed floor?	Basement/Crawlspace	
laximum length of exterior and interior wood-framed walls upporting lowest wood-framed floor?	1	
a Basement/Crawlspace required to be designed as a Neraced Storey?	0	
esignate Basement/Crawlspace as a Braced Storey?	-	

	Tim Warner	
Calculations Completed by (Contact Information)	twamer@boatcourg	
Site and Environmental Conditions		
Site Design Location (see hover note)	Nanaimo +	Click here to anter - Costom Location> climate and seismic data
Site Class	Unknown	
Site Exposure	Rough Terrain +	
Specified Snow Load (kPa)	1.555	Roof width assumed to be >4.3m.
HWP (1/50)	0.480	
HWP Range Identifier	0.4 < HWP ≤ 0.5	
Smax	1.550	
Smax Range Identifier	1.2 < Smax ≤ 1.6	
Design Parameters - Overall Building		
Weight of Construction	Normal Weight Construction -	All Braced Storeys are Normal Weight Construction
Sheathing Continuity	Continuous -	All Bands in all Braced Storeys are Continuously Sheathed
Number of wood-framed floors?	0	
Foundation Type	Slab-on-Grade	
Describe exterior walls supporting lowest wood-framed floor:		
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?		
Maximum length of exterior and interior wood-framed walls supporting lowest wood-framed floor?	-	
s a Basement/Crawlspace <u>required</u> to be designed as a Braced Storey?	No	

Tim Warner	
twamer@boabcuug	
Nanaimo	Click here to ante: Custom Location> climate and seismic data
Unknown	
1.555	Roof width assumed to be >4.3m.
0.480	
0.4 < HWP ≤ 0.5	
1,550	
1.2 < Smax ≤ 1.6	
Normal Weight Construction	All Braced Storeys are Normal Weight Construction
	All Bands in all Braced Storeys are Continuously Sheathed
0	An Danida in an Draced Storeya are Commundary Sheathed
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	•
No	
	Nanaimo • Unknown • Rough Terrain • 1.555 • 0.480 • 0.4 < HWP ≤ 0.5

	Tim Warner	
Calculations Completed by (Contact Information)	twarner@boshc.org	
Site and Environmental Conditions		
Site Design Location (see hover note)	Nanaimo	Click here to onler < Custom Location> climato and seismic data
Site Design Location (see nover note) Site Class	Unknown	Lindk here to uniter souscent Edeations criticito and seismic date
Site Exposure		
Site Exposure Specified Snow Load (kPa)	Rough Terrain 1.555	Roof width assumed to be >4.3m.
HWP (1/50)	0.480	Root width assumed to be 24.3m.
HWP (1/50) HWP Range Identifier	0.480 0.4 < HWP ≤ 0.5	
	0.4 < HWP \$ 0.5 1.550	
Smax		
Smax Range Identifier	1.2 < Smax ≤ 1.6	
Design Parameters - Overall Building		
Weight of Construction	Normal Weight Construction	All Braced Storeys are Normal Weight Construction
Sheathing Continuity	Continuous	All Bands in all Braced Storeys are Continuously Sheathed
Number of wood-framed floors?	0 -	
Foundation Type	Basement/Crawlspace -	
Describe exterior walls supporting lowest wood-framed floor:		
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?		
Maximum length of exterior and interior wood-framed walls supporting lowest wood-framed floor?	4	
Is a Basement/Crawlspace <u>required</u> to be designed as a Braced Storey?	No	
Designate Basement/Crawlspace as a Braced Storey?		

	Tim Warner	
Calculations Completed by (Contact Information)	(Warner@bosbc.org)	d
Site and Environmental Conditions		
Site Design Location (see hover note)	Nanaimo	Click here to onler < Custom Location> climato and seismic data
Site Design Location (see nover note) Site Class	Vanaimo	Lindk here to briter Coustom Education & cimato and seismic data
		d
Site Exposure	Rough Terrain 1.555	Roof width assumed to be >4.3m.
Specified Snow Load (kPa)	0.480	Root Width assumed to be 24.3m.
HWP (1/50)		
HWP Range Identifier	0.4 < HWP ≤ 0.5 1.550	
Smax		(
Smax Range Identifier	1.2 < Smax ≤ 1.6	
Design Parameters - Overall Building		
Weight of Construction	Normal Weight Construction	All Braced Storeys are Normal Weight Construction
Sheathing Continuity	Continuous	All Bands in all Braced Storeys are Continuously Sheathed
Number of wood-framed floors?	0	
Foundation Type	Basement/Crawlspace -	
Describe exterior walls supporting lowest wood-framed floor:		
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?		
Maximum length of exterior and interior wood-framed walls supporting lowest wood-framed floor?	4	
is a Basement/Crawlspace <u>required</u> to be designed as a Braced Storey?	Ng	
Designate Basement/Crawlspace as a Braced Storey?		

Calculations Completed by (Name)	Tim Warner	
Calculations Completed by (Contact Information)	twarner@boabc.org	
Site and Environmental Conditions		
Site and Environmental Conditions Site Design Location (see hover note)	Manalina	Click here to enter < Custom Location > climate and aviamic data
Site Design Location (see nover note) Site Class	Nanaimo	Click here to onter < custom Cosabon < climate and aelanic data
	Unknown -	
Site Exposure Specified Snow Load (kPa)	Rough Terrain	Roof width assumed to be >4.3m.
	1.555	Root width assumed to be 24.5m.
HWP (1/50)	0.480	
HWP Range Identifier	0.4 < HWP ≤ 0.5	/
Smax	1.550	1
Smax Range Identifier	1.2 < Smax ≤ 1.6	
Design Parameters - Overall Building		
Weight of Construction	Normal Weight Construction -	All Braced Storeys are Normal Weight Construction
Sheathing Continuity	Continuous	All Bands in all Braced Storeys are Continuously Sheathed
Number of wood-framed floors?	0	All Ballds In all braced otoreya are commuteday onserved
Foundation Type	Basement/Crawlspace	
and the second second second second second		
Describe exterior walls supporting lowest wood-framed floor:		
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?	Lowest wood-framed floor is supported at exterior directly by foundation walls only	
Maximum length of exterior and interior wood-framed walls supporting lowest wood-framed floor?	 Lowest wood-framed floor is supported at exterior directly by combination of foundation and Lowest wood-framed floor is supported at exterior directly by wood-framed (cripple) walls on 	and the second
Is a Basement/Crawlspace <u>required</u> to be designed as a Braced Storey?		0
Designate Basement/Crawlspace as a Braced Storey?		

Calculations Completed by (Name)	Tim Warner	
Calculations Completed by (Contact Information)	twarner@boebc.org	
Site and Environmental Conditions		
Site Design Location (see hover note)	Nanaimo	Click here to onter < Custom Location > plimate and asismic data
Site Class	Unknown	
Site Exposure	Rough Terrain -	
Specified Snow Load (kPa)	1.555	Roof width assumed to be >4.3m.
HWP (1/50)	0.480	
HWP Range Identifier	0.4 < HWP ≤ 0.5	
Smax	1.550	
Smax Range Identifier	1.2 < Smax ≤ 1.6	
Design Parameters - Overall Building		
Weight of Construction	Normal Weight Construction -	All Braced Storeys are Normal Weight Construction
Sheathing Continuity	Continuous -	All Bands in all Braced Storeys are Continuously Sheathed
Number of wood-framed floors?	0 -	
Foundation Type	Basement/Crawlspace	
Describe exterior walls supporting lowest wood-framed floor:		
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?	Lowest wood-framed floor is supported at exterior directly by foundation walls only	
Maximum length of exterior and interior wood-framed walls supporting lowest wood-framed floor?	 Lowest wood-framed floor is supported at exterior directly by combination of foundation and Lowest wood-framed floor is supported at exterior directly by wood-framed (cripple) walls on 	A TOTAL CARLES AND A CARL
Is a Basement/Crawlspace <u>required</u> to be designed as a Braced Storey?		0

	Tim Warner	
Calculations Completed by (Contact Information)	twamer@boatcourg	
Site and Environmental Conditions		
Site Design Location (see hover note)	Nanaimo +	Click here to anter - Costom Location> climate and seismic data
Site Class	Unknown	
Site Exposure	Rough Terrain +	
Specified Snow Load (kPa)	1.555	Roof width assumed to be >4.3m.
HWP (1/50)	0.480	
HWP Range Identifier	0.4 < HWP ≤ 0.5	
Smax	1.550	
Smax Range Identifier	1.2 < Smax ≤ 1.6	
Design Parameters - Overall Building		
Weight of Construction	Normal Weight Construction -	All Braced Storeys are Normal Weight Construction
Sheathing Continuity	Continuous -	All Bands in all Braced Storeys are Continuously Sheathed
Number of wood-framed floors?	0	
Foundation Type	Slab-on-Grade	
Describe exterior walls supporting lowest wood-framed floor:		
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?		
Maximum length of exterior and interior wood-framed walls supporting lowest wood-framed floor?	-	
s a Basement/Crawlspace <u>required</u> to be designed as a Braced Storey?	No	

Calculations Completed by (Name)	Tim Warner	
Calculations Completed by (Contact Information)	twamer@boabc-urg	
Site and Environmental Conditions	1	
Site Design Location (see hover note)	Nanaimo +	Click here to anter - Costom Location > climate and seismic data
Site Class	Unknown	
Site Exposure	Rough Terrain -	
Specified Snow Load (kPa)	1.555	Roof width assumed to be >4.3m.
HWP (1/50)	0.480	
HWP Range Identifier	0.4 < HWP ≤ 0.5	
Smax	1.550	
Smax Range Identifier	1.2 < Smax ≤ 1.6	
Design Parameters - Overall Building		
Weight of Construction	Normal Weight Construction -	All Braced Storeys are Normal Weight Construction
Sheathing Continuity	Continuous	All Bands in all Braced Storeys are Continuously Sheathed
Number of wood-framed floors?	0	
Foundation Type	Slab-on-Grade	
Describe exterior walls supporting lowest wood-framed floor:		
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?		
Maximum length of exterior and interior wood-framed walls supporting lowest wood-framed floor?		
Is a Basement/Crawlspace required to be designed as a Braced Storey?	No	

Design Parameters by Braced Storey				
For Braced Storey with walls supporting a Roof only				
Building Plan Dimension (along Horizontal Axis)		feet	= inches	NOTE: Additional System Considerations unavailable.
	0.000	m		
Building Plan Dimension (along Vertical Axis)		feet	- inches	NOTE: Additional System Considerations unavailable.
a contract and the second of the second	0.000	m		
Eave-to-Ridge Roof Height		feet	= inches	
	0.000	m		
Weight of Construction of Braced Storey				
For Braced Storey with walls supporting a Roof plus 1 f	loor			
Building Plan Dimension (along Horizontal Axis)				
Building Plan Dimension (along Vertical Axis)	1 3			
	-			
Weight of Construction of Braced Storey		_		
For Braced Storey with walls supporting a Roof plus 2 F	Parameter	-	Contract of the local division of the local	
Building Plan Dimension (along Horizontal Axis)	1000		-	
Building Plan Dimension (along Vertical Axis)				
Weight of Construction of Braced Storey				
For Basement/Crawlspace designed as a Relaxed Brac	ed Storey			
With concrete foundation walls, extending to the unders	ide of the first wo	od-fram	ed floor, around the exterior	
Building Plan Dimension (along Horizontal Axis)				
Building Plan Dimension (along Vertical Axis)	1			

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🔓 (1-2) Bands 👻 🔒 (1-3) Design & Feedback 🝷

Design Parameters by Braced Storey		-		
For Braced Storey with walls supporting a Roof only		_		
Building Plan Dimension (along Horizontal Axis)		feet	+ inches	NOTE: Additional System Considerations unavailable.
•	0.000	m		
Building Plan Dimension (along Vertical Axis)		feet	- inches	NOTE: Additional System Considerations unavailable.
and the strength of the strength	0.000	m		
Eave-to-Ridge Roof Height	11000	feet	inches	
	0.000	m		
Weight of Construction of Braced Storey				
For Braced Storey with walls supporting a Roof plus 1 f	loor			
Building Plan Dimension (along Horizontal Axis)				
Building Plan Dimension (along Vertical Axis)	1 -			
Weight of Construction of Braced Storey	1			-
For Braced Storey with walls supporting a Roof plus 2 F	loors			
Building Plan Dimension (along Horizontal Axis)				
Building Plan Dimension (along Vertical Axis)				
Weight of Construction of Braced Storey				•
or Basement/Crawlspace designed as a Relaxed Brac	ed Storey			
With concrete foundation walls, extending to the unders	ide of the first wo	od-frame	floor, around the exterior	
Building Plan Dimension (along Horizontal Axis)				
Building Plan Dimension (along Vertical Axis)				

Design Parameters by Braced Storey				
For Braced Storey with walls supporting a Roof only				
Building Plan Dimension (along Horizontal Axis)		feet	Inches	NOTE: Additional System Considerations unavailable.
	0.000	m		
Building Plan Dimension (along Vertical Axis)		feet	- inches	NOTE: Additional System Considerations unavailable.
	0.000	m		
Eave-to-Ridge Roof Height		feet	= inches	
	0.000	m		
Weight of Construction of Braced Storey		-		

VIEW BRACED STOREYS SECTION SCHEMATIC

VIEW BUILDING PLAN DIMENSIONS SCHEMATIC

Compliance Pathway Report		
Is Part 9 Simplified Approach permitted?	Να	
Is Part 9 Calculation Method (Tables) permitted?	Yes	
Is Part 9 Calculation Method (Alternative) permitted?	Yes	
Are Part 9 Foundation Cripple Walls permitted?	Yes	
Are Part 9 Additional System Considerations permitted?	No	
Code Matrix Link	Link to Compliance Pathway Matrix	
	Permit/File Number: BP_9999999 Calculations completed by: Tim Warne	r - twarner@boabc.org
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🔒 (I-2) Bands 👻 🔒 (I-3) Design & Feedback 🔻

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Design Parameters by Braced Storey				
For Braced Storey with walls supporting a Roof only				
Building Plan Dimension (along Horizontal Axis)		feet	Inches	NCTE: Additional System Considerations unavailable.
	0.000	m		
Building Plan Dimension (along Vertical Axis)	-	feet	inches inches	NCTE: Additional System Considerations unavailable.
	0.000	m	Travel	
Eave-to-Ridge Roof Height	0.000	feet	- Inches	
Weight of Construction of Braced Storey	0.000	1 1		
Compliance Pathway Report	1			
Compliance Pathway Report	_	- 1		
is Part 9 Simplified Approach permitted?	No			
Is Part 9 Simplified Approach permitted?	No Yes			
Is Part 9 Calculation Method (Tables) permitted?	Yes			
Is Part 9 Calculation Method (Tables) permitted?	Yes Yes			
Is Part 9 Calculation Method (Tables) permitted? Is Part 9 Calculation Method (Alternative) permitted? Are Part 9 Foundation Cripple Walls permitted?	Yes Yes Yes		Link to Compliance Pathway Matrix	
Is Part 9 Calculation Method (Tables) permitted? Is Part 9 Calculation Method (Alternative) permitted? Are Part 9 Foundation Cripple Walls permitted? Are Part 9 Additional System Considerations permitted?	Yes Yes Yes		Link to Compliance Pathway Matrix	

🔒 (I-3) Design & Feedback 🔹

🔒 (I-4) Length Compliance 🝷

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7 9 of 33 rows di

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🔒 (I-1) General 🝷

🔒 (I-2) Bands 👻

Design Parameters by Braced Storey			
For Braced Storey with walls supporting a Roof only	-		
Building Plan Dimension (along Horizontal Axis)	1	feet inches	NOTE: Additional System Considerations unavailable.
		m	
Building Plan Dimension (along Vertical Axis)		feet inches	NOTE: Additional System Considerations unavailable.
		m	
ave-to-Ridge Roof Height		m	
Veight of Construction of Braced Storey	- 4 -		
	5		
VIEW BRACED STOREYS SECTION SC		VIEW BUILDING PLAN DI	MENSIONS SCHEMATIC
	6		Including Concentration
	7	3	1
Compliance Pathway Report	- 8 -		
s Part 9 Simplified Approach permitted?			
States of Conceptor, the r	9		
s Part 9 Calculation Method (Tables) permitted?	10		
s Part 9 Calculation Method (Alternative) nermitted?	11		
s Part 9 Calculation Method (Alternative) permitted?			
s Part 9 Calculation Method (Alternative) permitted? Are Part 9 Foundation Cripple Walls permitted?	- 12 -		
	- 12 -		
re Part 9 Foundation Cripple Walls permitted? re Part 9 Additional System Considerations permitted?	- 12 - 13		
re Part 9 Foundation Cripple Walls permitted? re Part 9 Additional System Considerations permitted?	- 12 - 13 - 14 - 15 -	Link to Compliance Pathway Matrix	
re Part 9 Foundation Cripple Walls permitted?	- 12 - 13 14 15 - 16 -	Link to Compliance Pathway Matrix	
re Part 9 Foundation Cripple Walls permitted? re Part 9 Additional System Considerations permitted?	- 12 - 13 - 14 - 15 -	Link to Compliance Pathway Matrix Permit/File Number: BP_9999999 Calculations completed by: <end (i-1)="" general="" of="" sheet=""></end>	

Design Parameters by Braced Storey			
or Braced Storey with walls supporting a Roof only			
Building Plan Dimension (along Horizontal Axis)	feet	* inches	NOTE: Additional System Considerations unavailable.
	1 <u>m</u>		
Building Plan Dimension (along Vertical Axis)	2 feet	inches	NOTE: Additional System Considerations unavailable.
ave-to-Ridge Roof Height		- inches	
ave-to-stuge ison height	3 reet	incires -	
Veight of Construction of Braced Storey	4		
	5		
VIEW BRACED STOREYS SECTION SCH	6	VIEW BUILDING PLAN DIMENSI	IONS SCHEMATIC
	° 📃		
	7		
Compliance Pathway Report	8		
s Part 9 Simplified Approach permitted?	9		
Concerning Crame autors, The Co	,		
s Part 9 Calculation Method (Tables) permitted?	10		
s Part 9 Calculation Method (Alternative) permitted?	11		
and the second se	12		
	14		
re Part 9 Foundation Crinnle Walls permitted?			
re Part 9 Foundation Crinnle Walls permitted?	13		
Are Part 9 Foundation Cripple Walls permitted?	13		
Are Part 9 Foundation Cripple Walls permitted? Are Part 9 Additional System Considerations permitted?	14		
are Part 9 Foundation Cripple Walls permitted? are Part 9 Additional System Considerations permitted? Code Matrix Link	14	Link to Compliance Pathway Matrix	
Are Part 9 Foundation Cripple Walls permitted? Are Part 9 Additional System Considerations permitted? Code Matrix Link	14	Link to Compliance Pathway Matrix	
Are Part 9 Foundation Cripple Walls permitted? Are Part 9 Additional System Considerations permitted? Code Matrix Link	14 15 16	Link to Compliance Pathway Matrix Permit/File Number: BP_9999999 Calculations completed by: Tim War	rner - twarner@boabc.org

Design Parameters by Braced Storey		-				
For Braced Storey with walls supporting a Roof only						
Building Plan Dimension (along Horizontal Axis)	32 -	feet	10	- inches	NOTE: Additional System Considerations unavailable.	
	10.008	m				
Building Plan Dimension (along Vertical Axis)	26	feel	3	- Inches	NOTE: Additional System Considerations unavailable.	
	8.001	m	-			
Eave-to-Ridge Roof Height	4		11 -	- inches		
Weight of Construction of Braced Storey	1,499	m				
Compliance Pathway Report	CHEMATIC			VIEW BUILDING PLAN DIMENSIONS		
Is Part 9 Simplified Approach permitted?	No					
Is Part 9 Calculation Method (Tables) permitted?	Yes					
Is Part 9 Calculation Method (Alternative) permitted?	Yes					
Is Part 9 Calculation Method (Alternative) permitted? Are Part 9 Foundation Cripple Walls permitted?	Yes	_				
Are Part 9 Foundation Cripple Walls permitted?	Yes			Link to Compliance Pathway Matrix		
Are Part 9 Foundation Cripple Walls permitted? Are Part 9 Additional System Considerations permitted?	Yes		Permit	Link to Compliance Pathway Matrix /File Number: BP_9999999 Calculations completed by: Tim Warner - tw	varner@boabc.org	

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🔒 (I-1) General 🔹

🔒 (1-2) Bands 👻 🔒 (1-3) Design & Feedback 🔻

Design Parameters by Braced Storey		
For Braced Storey with walls supporting a Roof only		
Building Plan Dimension (along Horizontal Axis)	32 - feet 10 - inches	NOTE: Additional System Considerations unavailable.
	10.008 m	
Building Plan Dimension (along Vertical Axis)	26 - feet 3 - inches	NOTE: Additional System Considerations unavailable.
	8.001 m	
Eave-to-Ridge Roof Height	4 - feet 11 - inches	
Weight of Construction of Braced Storey	1,499 m	
Compliance Pathway Report		
Is Part 9 Simplified Approach permitted?	No	
Is Part 9 Calculation Method (Tables) permitted?	Yes	
Is Part 9 Calculation Method (Alternative) permitted?	Yes	
Are Part 9 Foundation Cripple Walls permitted?	Yes	
Are Part 9 Additional System Considerations permitted?	Na	
Code Matrix Link	Link to Complia	nce Pathway Matrix
	Permit/File Number: BP_99999	99 Calculations completed by: Tim Warner - twarner@boabc.org
		<end (i-1)="" general="" of="" sheet=""></end>

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🔒 (I-1) General 🔹

🔒 (I-2) Bands 👻 🔒 (I-3) Design & Feedback 🔻

Design Parameters by Braced Storey					
For Braced Storey with walls supporting a Roof only					
Building Plan Dimension (along Horizontal Axis)	32 -	feet	t 10 - inches		NOTE: Additional System Considerations unavailable.
	10.008	m		1	
Building Plan Dimension (along Vertical Axis)	26 -	feet	3 inches		NOTE: Additional System Considerations unavailable.
	8.001	m			
Eave-to-Ridge Roof Height	4		t 11 - inches		
Weight of Construction of Braced Storey	1.499	m			
Height of Ostrolitorion of Diabout Grandy	Nama	Montal	2 Departmention		l)
VIEW BRACED STOREYS SECTION SC	-		Construction	IEMATIC	
Compliance Pathway Report				0	
Is Part 9 Simplified Approach permitted?	No				
Is Part 9 Calculation Method (Tables) permitted?	Yes				
Is Part 9 Calculation Method (Alternative) permitted?	Yes				
Are Part 9 Foundation Cripple Walls permitted?	Yes				
Are Part 9 Additional System Considerations permitted?	No				
Code Matrix Link			Link to Compliance Pathway Matr	rix	
			Permit/File Number: BP_9999999 Calculations comp	pleted by: Tim Warner - twarner	@boabc.org
			<end (<="" (i-1)="" of="" sheet="" td=""><td>General></td><td></td></end>	General>	

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esign Parameters by Braced Storey					
For Braced Storey with walls supporting a Roof only					
Building Plan Dimension (along Horizontal Axis)	32 -	feet	t 10 - inches		NOTE: Additional System Considerations unavailable.
	10.008	m			
Building Plan Dimension (along Vertical Axis)	26 -	feet	3 inches		NOTE: Additional System Considerations unavailable.
	8.001	m			
Eave-to-Ridge Roof Height	4 -		11 rinches		
	1.499	m			
Weight of Construction of Braced Storey	_				
VIEW BRACED STOREYS SECTION SC	-1		Construction	IEMATIC	
Compliance Pathway Report	1			0	
Is Part 9 Simplified Approach permitted?	No				
Is Part 9 Calculation Method (Tables) permitted?	Yes				
Is Part 9 Calculation Method (Alternative) permitted?	Yes				
Are Part 9 Foundation Cripple Walls permitted?	Yes				
Are Part 9 Additional System Considerations permitted?	No				
Code Matrix Link			Link to Compliance Pathway Matrix	K	
			Permit/File Number: BP_9999999 Calculations comple	eted by: Tim Warner - twarner(@boabc.org
			<end (i-1)="" g<="" of="" sheet="" td=""><td>ieneral></td><td></td></end>	ieneral>	

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Design Parameters by Braced Storey					
For Braced Storey with walls supporting a Roof only				1	
Building Plan Dimension (along Horizontal Axis)	32	+	feet	10 - inches	NOTE: Additional System Considerations unavailable.
	10.008		m		
Building Plan Dimension (along Vertical Axis)	26	т	feet	3 inches	NOTE: Additional System Considerations unavailable.
	8.001		m		
Eave-to-Ridge Roof Height	4	4	feet	11 - inches	
	1.499		m		
Weight of Construction of Braced Storey	Normal	Weig	ght C	onstruction	

VIEW BRACED STOREYS SECTION SCHEMATIC

VIEW BUILDING PLAN DIMENSIONS SCHEMATIC

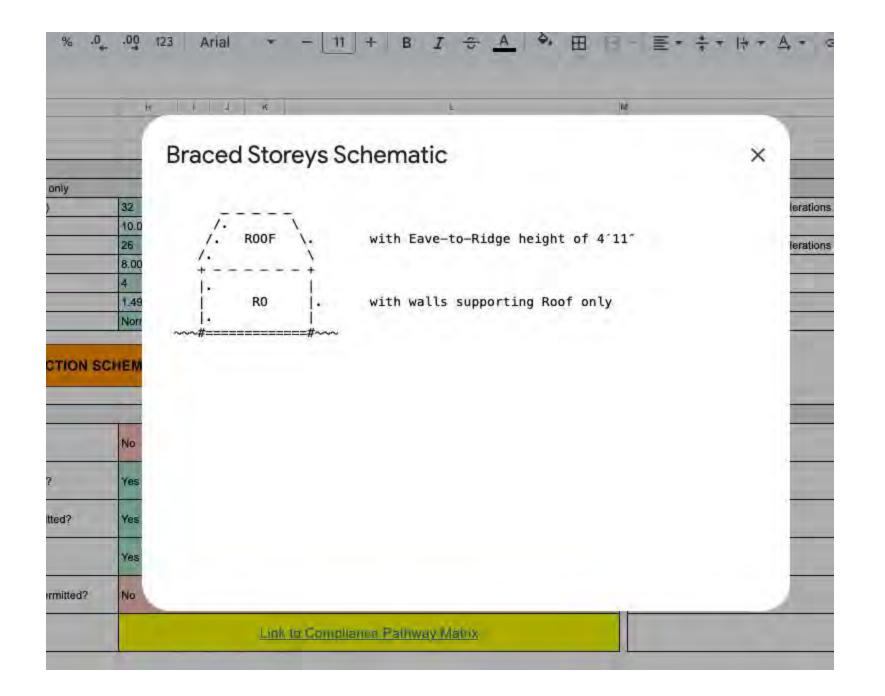
Compliance Pathway Report		
Is Part 9 Simplified Approach permitted?	No	
Is Part 9 Calculation Method (Tables) permitted?	Yes	
Is Part 9 Calculation Method (Alternative) permitted?	Yas	
Are Part 9 Foundation Cripple Walls permitted?	Yes	
Are Part 9 Additional System Considerations permitted?	No	
Code Matrix Link	Link to Compliance Pathway Matrix	
	Permit/File Number: BP_9999999 Calculations completed by: Tim Warr	ner - twarner@boabc.org
	<end (i-1)="" general="" of="" sheet=""></end>	

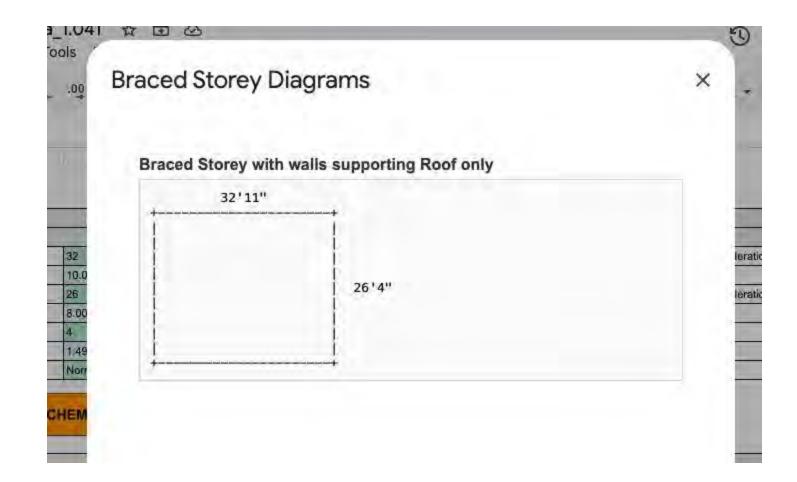
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🔓 (I-1) General 🕋 🔒 (I-2) Bands 🔹

🔒 (I-3) Design & Feedback 🔹

Design Parameters by Braced Storey				
For Braced Storey with walls supporting a Roof only				
Building Plan Dimension (along Horizontal Axis)	32 - f	feet 10 = i	ches NOTE: Additional System Consid	derations unavailable.
	10.008	m		
Building Plan Dimension (along Vertical Axis)	26 - f	ieet 3 🔹 i	ches NOTE: Additional System Consid	derations unavailable.
		m		
Eave-to-Ridge Roof Height		feet 11 - i	ches	
	100000	m		
Veight of Construction of Braced Storey	Normal Weigh	Normal Weight Construction		
ompliance Pathway Report	1			
Compliance Pathway Report	E			
s Part 9 Simplified Approach permitted?	No			
s Part 9 Calculation Method (Tables) permitted?	Yes			
s Part 9 Calculation Method (Alternative) permitted?	Yes			
Are Part 9 Foundation Cripple Walls permitted?	Yes			
	No			
ve Part 9 Additional System Considerations permitted?			Link to Compliance Pathway Matrix	
		Parmit/Fil		
Are Part 9 Additional System Considerations permitted? Code Matrix Link		Permit/File	Number: BP_9999999 Calculations completed by: Tim Warner - twarner@boabc.org <end (i-1)="" general="" of="" sheet=""></end>	





Design Parameters by Braced Storey					
For Braced Storey with walls supporting a Roof only					
Building Plan Dimension (along Horizontal Axis)	32 -	feet	10 +	inches	NOTE: Additional System Considerations unavailable.
	10.008	m			
Building Plan Dimension (along Vertical Axis)	26 -	feet	3 -	inches	NOTE: Additional System Considerations unavailable.
	8.001	m			
Eave-to-Ridge Roof Height	4 -	feet	11 😤	inches	
	1.499	m	12.1		
Weight of Construction of Braced Storey	Normal W	eight C	onstructi	ion	*
Compliance Pathway Report	No	_			
is Part 9 Simplified Approach permitted?	NO				
Is Part 9 Calculation Method (Tables) permitted?	Yes				
	Yes Yes				
Is Part 9 Calculation Method (Alternative) permitted?					
is Part 9 Calculation Method (Alternative) permitted? Are Part 9 Foundation Cripple Walls permitted?	Yes				
Is Part 9 Calculation Method (Tables) permitted? Is Part 9 Calculation Method (Alternative) permitted? Are Part 9 Foundation Cripple Walls permitted? Are Part 9 Additional System Considerations permitted? Code Matrix Link	Yes Yes			Link to Compliance Pathway Matrix	
Is Part 9 Calculation Method (Alternative) permitted? Are Part 9 Foundation Cripple Walls permitted? Are Part 9 Additional System Considerations permitted?	Yes Yes No	(M-2	!) Com		Tim Warner - twarner@boabc.org

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Design Parameters by Braced Storey		
for Braced Storey with walls supporting a Roof only	An and a second second	
Building Plan Dimension (along Horizontal Axis)	32 * feet 10 * inches	NOTE: Additional System Considerations unavailable.
	10.008 m	
suilding Plan Dimension (along Vertical Axis)	26 • feet 3 • inches	NOTE: Additional System Considerations unavailable.
	8.001 m	
ave-to-Ridge Roof Height	4 - feet 11 - inches	
	1.499 m	
Veight of Construction of Braced Storey	Normal Weight Construction	
Compliance Pathway Report s Part 9 Simplified Approach permitted?	No	
s Part 9 Calculation Method (Tables) permitted?	Yes	
s Part 9 Calculation Method (Alternative) permitted?	Yes	
Are Part 9 Foundation Cripple Walls permitted?	Yes	
Are Part 9 Additional System Considerations permitted?	No	
ode Matrix Link	Link to Compliance Pathway Ma	atrix
ode Marix Link		
Jobe Manx Link		plated by: Tim Warner - twarner@bcabc.org

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🔒 (I-1) General 🕋 🔒 (I-2) Bands 🔻

🔒 (1-3) Design & Feedback 👻 🔒 (1-4

▼ 9 of 33 rows di

For Design, Compliance and Construction

6

Sheet (M-2) Matrix: Code Path Compliance Review and Trigger Points

User Entries				_				_		_					_
Location			Site and Environmenta	Condition	15				Building D	esign Cond	litions				-
			Exposure	HWP (1/50)	Snow Load (kPa)	Site Class	Smax	Smax C	ABC/vert. (m)	123/hor. (m)	Eave-to- Ridge	Sheathing Continunity	Storeys For Bracing	Lowest exterior wood-framed wall supports x floors	Weigl
Nanaimo			Rough Terrain	0.480	1.555	Unknown	1.550	1.1500	8.001	10.008	1.499	Continuous	1	0	No
Comliance Matrix			<u> </u>								_				
Code Path	BCBC Reference	Valid?						-		_	Trigger Cri	teria			_
Simplified Approach Table A	9.12.13.1>9.23.13.11.(1)	No.	Rough Terrain	0.500	2.000		0.300	0.47	21.200	21.200	3.000	Continuous	3	2	No
Simplified Approach Table B	9.12.13.1>9.23.13.11.(2)	No	Rough Terrain	0.600	a contraction of		0.470	0.47	21.200	21.200	3.000	Continuous	3	2	No
AND REAL TRACTORY	9.23.13.2(1)(i)	Yes		1.200	0		2.600				6.000		3	2	No
High Wind and Seismic Forces	9.23.13.2(1)(ii)	No		1.200	1		2.600				6.000		2	T	He
Calculation Method (Tables)	9.23.13.7.(3) and (4)	Yes			6.000										
Calculation Method (Alternative)	A-9.23.13.7.(3) and (4)	Yes			-										
Freedown October Within	9.23.13.8.(2)	No					0.600	-							No
Foundation Cripple Walls	9.23.13.8.(3)	Yes					2.600								No
Additional System Considerations	9.23.13.10	No		1.200			1.200						3		
Return to Part 9 Br	mine Coloulates	1													
Neturn to Part 5 50	acity calculator														
			Permit/File Num	ber: BP_9	9999999	Calculati	ons com	pleted b	y: Tim Wan	ner - twarn	er@boabc.or	rg l			_
				_	<end< td=""><td>of Sheet (M</td><td>1-2) Con</td><td>npliance</td><td>Matrix></td><td></td><td></td><td></td><td></td><td></td><td></td></end<>	of Sheet (M	1-2) Con	npliance	Matrix>						

For Design, Compliance and Construction

Sheet (M-2) Matrix: Code Path Compliance Review and Trigger Points

and the second se									-				_		
Location			Site and Environmenta	I Condition	15		-		Building De	esign Cond	itions		1		1
			Exposure	HWP (1/50)	Snow Load (kPa)	Site Class	Smax	Smax C	ABC/vert. (m)	123/hor. (m)	Eave-to- Ridge	Sheathing Continunity	Storeys For Bracing	Lowest exterior wood-framed wall supports x floors	Weig
Nanaimo			Rough Terrain	0.480	1.555	Unknown	1.550	1.1500	8.001	10.008	1.499	Continuous	1	0	No
Comliance Matrix															
Code Path	BCBC Reference	Valid?									Trigger Crit	teria			
Simplified Approach Table A	9.12.13.1>9.23.13.11.(1)	No	Rough Terrain	0.500	2.000		0,300	0.47	21.200	21.200	3.000	Continuous	3	2	No
Simplified Approach Table B	9.12.13.1>9.23.13.11.(2)	No	Rough Terrain	0.600	2.000		0.470	0.47	21.200	21.200	3.000	Continuous	3	2	No
	9.23.13.2(1)(i)	Yes		1.200			2.600				6.000		3	2	No
High Wind and Seismic Forces	9.23.13.2(1)(ii)	No		1.200			2,600				6.000		2	1	He
Calculation Method (Tables)	9.23.13.7.(3) and (4)	Yes			6.000										
Calculation Method (Alternative)	A-9.23.13.7.(3) and (4)	Yes													
E un dellas Ostada Miella	9.23.13.8.(2)	No					0.600		-					1	No
Foundation Cripple Walls	9.23.13.8.(3)	Yes					2.600								No
Additional System Considerations	9.23.13.10	No		1.200			1.200						.3		

Design Parameters by Braced Storey					
For Braced Storey with walls supporting a Roof only					
Building Plan Dimension (along Horizontal Axis)	32 -	feet	10 +	inches	NOTE: Additional System Considerations unavailable.
	10.008	m			
Building Plan Dimension (along Vertical Axis)	26 -	feet	3 -	inches	NOTE: Additional System Considerations unavailable.
	8.001	m			
Eave-to-Ridge Roof Height	4 -	feet	11 😤	inches	
	1.499	m	12.1		
Weight of Construction of Braced Storey	Normal W	eight C	onstructi	ion	*
Compliance Pathway Report	No	_			
is Part 9 Simplified Approach permitted?	NO				
Is Part 9 Calculation Method (Tables) permitted?	Yes				
	Yes Yes				
Is Part 9 Calculation Method (Alternative) permitted?					
is Part 9 Calculation Method (Alternative) permitted? Are Part 9 Foundation Cripple Walls permitted?	Yes				
Is Part 9 Calculation Method (Tables) permitted? Is Part 9 Calculation Method (Alternative) permitted? Are Part 9 Foundation Cripple Walls permitted? Are Part 9 Additional System Considerations permitted? Code Matrix Link	Yes Yes			Link to Compliance Pathway Matrix	
Is Part 9 Calculation Method (Alternative) permitted? Are Part 9 Foundation Cripple Walls permitted? Are Part 9 Additional System Considerations permitted?	Yes Yes No	(M-2	!) Com		Tim Warner - twarner@boabc.org

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sign Parameters by Braced Storey		
r Braced Storey with walls supporting a Roof only		
ilding Plan Dimension (along Horizontal Axis)	32 • feet 10 • inches	NOTE: Additional System Considerations unavailable.
	10.008 m	
ilding Plan Dimension (along Vertical Axis)	26 • feet 3 • inches	NOTE: Additional System Considerations unavailable.
	8.001 m	
ve-to-Ridge Roof Height	4 - feet 11 - inches	
eight of Construction of Braced Storey	Normal Weight Construction	
Part 9 Simplified Approach permitted?	No	
Part 9 Calculation Method (Tables) permitted?	Yes	
Part 9 Calculation Method (Alternative) permitted?	Yes	
e Part 9 Foundation Cripple Walls permitted?	Yes	
e Part 9 Additional System Considerations permitted?	No	
	Link to Compliance Pathway Matrix	
e Part 9 Foundation Cripple Walls permitted?	No	

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🔒 (I-1) General 🔟 🔒 (I-2) Bands 🔹

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For Design, Compliance and Construction

Sheet (I-2): Inputs - Bands

USER INPUT SHEETS: I-1 I-2 I-3 I-4 R-4

or Braced Storeys							-	Calculator Feedback:
or walls supporting:	Abbreviation	Orthogonal Axis	Description of Entry Required	User Entri	es			
	1.		Number of Bands:		-			
	1.1	Bands labelled along Horizontal Axis	Total distance between centerlines of end Bands:		feet	- inches	0.000 feet	
	1.2	(Bands labelled 1, 2, 3, etc)	Average Spacing of Bands:	0.000	feet		0.000 m	
			Does the design utilise a setback wall in this orthogonal direction?		5 m			NOTE: Additional System Considerations unavailabl
Roof Only	R		Number of Bands:					
		Bands labelled along Vertical Axis	Total distance between centerlines of end Bands.	Ŧ	feet	- inches	0.000 feet	1
		(Bands labelled A, B, C etc.)	Average Spacing of Bands:	0.000	feet		0.000 m	
			Does the design utilise a setback wall in this orthogonal direction?	-	-			NOTE: Additional System Considerations unavailabl
	1.1		Number of Bands:		1			
		Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3., etc)	Total distance between centerlines of end Bands:			-		
Doof olug + Elege	DIAL	(Canac meened if it out etery)	Average Spacing of Bands:	-				
Roof plus 1 Floor	R+1F		Number of Bands:	-				1
	1.1	Bands labelled along Vertical Axis (Bands labelled A, B, C etc.)	Total distance between centerlines of end Bands:	-				
			Average Spacing of Bands:					
			Number of Bands:	-				
		Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3 etc)	Total distance between centerlines of end Bands:	-		*		
Roof plus 2 Floors	R+2F	(Barras Resilies 1) 2; en etery	Average Spacing of Bands:					C
Roof plus 2 Floors	R+2F		Number of Bands:					2
		Bands labelled along Vertical Axis (Bands labelled A, B, C etc.)	Total distance between centerlines of end Bands:					
		Version interster of all and any	Average Spacing of Bands:	1				1.5
	A							
or a Basement/Craw	vispace design	ed as a Relaxed Braced Storey						

🔒 (I-1) General 👻

or besign, o	ompliance	e and Construction				_	
heet (I-2): Input	s - Bands	CONTRACTOR OF STREET			USE	R INPUT SH	HEETS: 1-1 1-2 1-3 1-4 R-4
or Braced Storeys							Calculator Feedback:
or walls supporting:	Abbreviation	Orthogonal Axis	Description of Entry Required	User Entries			
			Number of Bands:				
	1.1	Bands labelled along Horizontal Axis	Total distance between centerlines of end Bands:	+ feet	- inches	0.000 feet	
	1.0	(Bands labelled 1, 2, 3, etc)	Average Spacing of Bands:	0.000 feet		0.000 m	
Editad	3.7		Does the design utilise a setback wall in this orthogonal direction?				NOTE: Additional System Considerations unavailable
Roof Only	R		Number of Bands:				
		Bands labelled along Vertical Axis	Total distance between centerlines of end Bands.	+ feet	- inches	0.000 feet	1
	1.1.0.11	(Bands labelled A. B. C etc.)	Average Spacing of Bands:	0.000 feet		0.000 m	
			Does the design utilise a setback wall in this onnogonal direction?				NOTE: Additional System Considerations unavailable
	1		Number of Bands:	6	-		
		Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3,., etc)	Total distance between centerlines of end Bands:	÷ 1	-		
	D. A.F.	(Dance labored 1, 2, 5., etc.)	Average Spacing of Bands:	line and line li			
Roof plus 1 Floor	R+1F		Number of Bands:	-			4_
		Bands labelled along Vertical Axis (Bands labelled A, B, C etc.)	Total distance between centerlines of end Bands:		-		
		(Danda labolica A, D, D., atc.)	Average Spacing of Bands:				
	1		Number of Bands:	-			
		Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3 etc)	Total distance between centerlines of end Bands:	÷ I	+		
Roof plus 2 Floors	R+2F	(control desired if at east etc.)	Average Spacing of Bands:				C
Roor plus 2 Floors	R+2F		Number of Bands:				2
		Bands labelled along Vertical Axis (Bands labelled A, B, C etc.)	Total distance between centerlines of end Bands:	3	-		
			Average Spacing of Bands:				1.

🔒 (I-1) General 👻

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Part 9 Bracing Calculator For Design, Compliance and Construction

Sheet (I-2): Inputs - Bands

RESET SHEET

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USER INPUT SHEETS: I-1 I-2 I-3 I-4 R-4

						Calculator Feedback:
Abbreviation	Orthogonal Axis	Description of Entry Required	User Entries			
		Number of Bands:	+			
1.1.1	Bands labelled along Horizontal Axis	Total distance between centerlines of end Bands:	+ feet	+ inches	0.000 feet	
	(Bands labelled 1, 2, 3 etc)	Average Spacing of Bands:	0.000 feet		0.000 m	
		Does the design utilise a setback wall in this orthogonal direction?				NOTE: Additional System Considerations unavailable
R		Number of Bands:	*			
	Bands labelled along Vertical Axis	Total distance between centerlines of end Bands:	+ feet	+ inches	0.000 feet	
	(Bands labelled A, B, C etc.)	Average Spacing of Bands:	0.000 feet		0.000 m	
		Does the design utilise a setback wall in this orthogonal direction?				NOTE: Additional System Considerations unavailable
		<end (i-2)="" bands="" of="" sheet=""></end>				
	R		R Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3 etc) Total distance between centerlines of end Bands: Average Spacing of Bands: Does the design utilise a setback wall in this orthogonal direction? Number of Bands: Total distance between centerlines of end Bands: Total distance between centerlines of end Bands: Does the design utilise a setback wall in this orthogonal direction? Number of Bands: Does the design of Bands: Does the design utilise a setback wall in this orthogonal direction?	R Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3 etc) Total distance between centerlines of end Bands: • feet Average Spacing of Bands: 0.000 feet Does the design utilise a setback wall in this orthogonal direction? Image: Spacing of Bands: • feet Does the design utilise a setback wall in this orthogonal direction? Image: Spacing of Bands: • feet Image: Spacing of Bands: 0.000 feet Image: Spacing of Bands: 0.000 feet Image: Spacing of Bands: 0.000 feet Image: Spacing of Bands: Image: Spacing of Bands: <td< td=""><td>R Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3 etc) Total distance between centerlines of end Bands: Average Spacing of Bands: Does the design utilise a setback wall in this orthogonal direction? Image: Content of Content</td><td>R Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3 etc) Total distance between centerlines of end Bands: feet inches 0.000 feet 0.000 m R Bands labelled 1, 2, 3 etc) Number of Bands: 0.000 feet 0.000 m Does the design utilise a setback wall in this orthogonal direction? Image: Comparison of Bands: feet inches inches 0.000 m Bands labelled along Vertical Axis (Bands labelled A, B, C etc.) Number of Bands: feet inches 0.000 m Does the design utilise a setback wall in this orthogonal direction? inches 0.000 m Does the design utilise a setback wall in this orthogonal direction? inches inches</td></td<>	R Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3 etc) Total distance between centerlines of end Bands: Average Spacing of Bands: Does the design utilise a setback wall in this orthogonal direction? Image: Content of Content	R Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3 etc) Total distance between centerlines of end Bands: feet inches 0.000 feet 0.000 m R Bands labelled 1, 2, 3 etc) Number of Bands: 0.000 feet 0.000 m Does the design utilise a setback wall in this orthogonal direction? Image: Comparison of Bands: feet inches inches 0.000 m Bands labelled along Vertical Axis (Bands labelled A, B, C etc.) Number of Bands: feet inches 0.000 m Does the design utilise a setback wall in this orthogonal direction? inches 0.000 m Does the design utilise a setback wall in this orthogonal direction? inches inches

Part 9 Bracing Calculator For Design, Compliance and Construction

Sheet (I-2): Inputs - Bands

RESET SHEET

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USER INPUT SHEETS: I-1 I-2 I-3 I-4 R-4

						Calculator Feedback:
Abbreviation	Orthogonal Axis	Description of Entry Required	User Entries			
		Number of Bands:	+			
1.1.1	Bands labelled along Horizontal Axis	Total distance between centerlines of end Bands:	+ feet	+ inches	0.000 feet	
	(Bands labelled 1, 2, 3 etc)	Average Spacing of Bands:	0.000 feet		0.000 m	
		Does the design utilise a setback wall in this orthogonal direction?				NOTE: Additional System Considerations unavailable
R		Number of Bands:	*			
	Bands labelled along Vertical Axis	Total distance between centerlines of end Bands:	+ feet	+ inches	0.000 feet	
	(Bands labelled A, B, C etc.)	Average Spacing of Bands:	0.000 feet		0.000 m	
		Does the design utilise a setback wall in this orthogonal direction?				NOTE: Additional System Considerations unavailable
		<end (i-2)="" bands="" of="" sheet=""></end>				
	R		R Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3 etc) Total distance between centerlines of end Bands: Average Spacing of Bands: Does the design utilise a setback wall in this orthogonal direction? Number of Bands: Total distance between centerlines of end Bands: Total distance between centerlines of end Bands: Does the design utilise a setback wall in this orthogonal direction? Number of Bands: Does the design of Bands: Does the design utilise a setback wall in this orthogonal direction?	R Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3 etc) Total distance between centerlines of end Bands: • feet Average Spacing of Bands: 0.000 feet Does the design utilise a setback wall in this orthogonal direction? Image: Spacing of Bands: • feet Does the design utilise a setback wall in this orthogonal direction? Image: Spacing of Bands: • feet Image: Spacing of Bands: 0.000 feet Image: Spacing of Bands: 0.000 feet Image: Spacing of Bands: 0.000 feet Image: Spacing of Bands: Image: Spacing of Bands: <td< td=""><td>R Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3 etc) Total distance between centerlines of end Bands: Average Spacing of Bands: Does the design utilise a setback wall in this orthogonal direction? Image: Content of Content</td><td>R Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3 etc) Total distance between centerlines of end Bands: feet inches 0.000 feet 0.000 m R Bands labelled 1, 2, 3 etc) Number of Bands: 0.000 feet 0.000 m Does the design utilise a setback wall in this orthogonal direction? Image: Comparison of Bands: feet inches inches 0.000 m Bands labelled along Vertical Axis (Bands labelled A, B, C etc.) Number of Bands: feet inches 0.000 m Does the design utilise a setback wall in this orthogonal direction? inches 0.000 m Does the design utilise a setback wall in this orthogonal direction? inches inches</td></td<>	R Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3 etc) Total distance between centerlines of end Bands: Average Spacing of Bands: Does the design utilise a setback wall in this orthogonal direction? Image: Content of Content	R Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3 etc) Total distance between centerlines of end Bands: feet inches 0.000 feet 0.000 m R Bands labelled 1, 2, 3 etc) Number of Bands: 0.000 feet 0.000 m Does the design utilise a setback wall in this orthogonal direction? Image: Comparison of Bands: feet inches inches 0.000 m Bands labelled along Vertical Axis (Bands labelled A, B, C etc.) Number of Bands: feet inches 0.000 m Does the design utilise a setback wall in this orthogonal direction? inches 0.000 m Does the design utilise a setback wall in this orthogonal direction? inches inches

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Braced Storeys								Calculator Feedback:
walls supporting:	Abbreviation	Orthogonal Axis	Description of Entry Required	User Entr	es			
	a sur a fair	i saca s	Number of Bands:	2 *				
		Bands labelled along Horizontal Axis	Total distance between centerlines of end Bands:	31 -	feet	2 - inches	31.167 feet	
		(Bands labelled 1, 2, 3 etc)	Average Spacing of Bands:	31.167	feet		9.500 m	
Roof Only	R		Does the design utilise a setback wall in this orthogonal direction?	-				NOTE: Additional System Considerations unavailable
Rooi Only	ĸ		Number of Bands:	2 +				
		Bands labelled along Vertical Axis	Total distance between centerlines of end Bands:	24 -	feet	7 - inches	24,583 feet	
		(Bands labelled A, B, C., etc.)	Average Spacing of Bands:	24.583	feet		7.493 m	
			Long to Table To be the Table State	-				
			Does the design utilise a setback wall in this orthogonal direction?	*				NOTE: Additional System Considerations unavailable
			Does the design utilise a setback wall in this orthogonal direction?	+				NOTE: Additional System Considerations unavailable
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	s - Bands					USI	ER INPUT S	HEETS: 1-1 1-2 1-3 1-4 R
Braced Storeys								Calculator Feedback:
walls supporting:	Abbreviation	Orthogonal Axis	Description of Entry Required	User Entr	ries			
1			Number of Bands:	2 +				
		Bands labelled along Horizontal Axis	Total distance between centerlines of end Bands:	31 -	feet	2 - Inches	31.167 feet	
		(Bands labelled 1, 2, 3 etc)	Average Spacing of Bands:	31.167	7 feet		9.500 m	
Reaf Oak	R		Does the design utilise a setback wall in this orthogonal direction?	-				NOTE: Additional System Considerations unavailable
Roof Only	R		Number of Bands:	2 +				
		Bands labelled along Vertical Axis	Total distance between centerlines of end Bands:	24 -	feet	7 - inches	24.583 feet	
•		(Bands labelled A, B, G., etc.)	Average Spacing of Bands:	24.583	3 feet		7.493 m	
			Does the design utilise a setback wall in this orthogonal direction?	÷				NOTE: Additional System Considerations unavailab
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			Permit/File Number: BP_9999999 Calculations completed by: Tim	n Warner -	twame	er@boabc.org		NOTE: Additional System Considerations unavailab

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For Design, Compliance and Construction

Sheet (I-2): Inputs - Bands

USER INPUT SHEETS: I-1 I-2 I-3 I-4 R-4

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or Braced Storeys								Calculator Feedback:
or walls supporting:	Abbreviation	Orthogonal Axis	Description of Entry Required	User Entr	ies			
			Number of Bands:	2 -	1			
	11.0	Bands labelled along Horizontal Axis	Total distance between centerlines of end Bands:	35 •	feet	2 - inches	35.167 feet	
		(Bands labelled 1, 2, 3 etc)	Average Spacing of Bands:	35.167	feet	-	10.719 m	ERROR: Maximum average Band spacing exceeded
Dest Oak			Does the design utilise a setback wall in this orthogonal direction?		1.0			NOTE: Additional System Considerations unavailable
Roof Only	R		Number of Bands:	2 -				
		Bands labelled along Vertical Axis	Total distance between centerlines of end Bands:	24 -	feet	7 - inches	24.583 feet	
		(Bands labelled A, B, C etc.)	Average Spacing of Bands:	24.583	B feet		7.493 m	
	12		Does the design utilise a setback wall in this orthogonal direction?		1	· · · · · · · · · · · · · · · · · · ·		NOTE: Additional System Considerations unavailable
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			Permit/File Number: BP_9999999 Calculations completed by: Tim	Warner - 1	twarner	@boabc.org		
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				1 Warner - 1	twarner	@boabc.org		
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🔒 (I-3) Design & Feedback 🔹

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For Design, Compliance and Construction

Sheet (I-2): Inputs - Bands

USER INPUT SHEETS: I-1 I-2 I-3 I-4 R-4

or Braced Storeys								Calculator Feedback:
or walls supporting:	Abbreviation	Orthogonal Axis	Description of Entry Required	User Entr	ies			
			Number of Bands:	2 -	1			
		Bands labelled along Horizontal Axis	Total distance between centerlines of end Bands:	35 -	feet	2 - inches	35.167 feet	
		(Bands labelled 1, 2, 3 etc)	Average Spacing of Bands:	35.167	feet	1	10.719 m	ERROR: Maximum average Band spacing exceeded
Destores			Does the design utilise a setback wall in this orthogonal direction?	1				NOTE: Additional System Considerations unavailable
Roof Only	R		Number of Bands:	2 -				
		Bands labelled along Vertical Axis	Total distance between centerlines of end Bands:	24 -	feet	7 - inches	24.583 feet	
		(Bands labelled A, B, C etc.)	Average Spacing of Bands:	24.583	feet		7.493 m	
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			Does the design utilise a setback wall in this orthogonal direction?	Warner - 1	wamer	Mboabc org		NOTE: Additional System Considerations unavailab
				Warner - 1	warner	@boabc.org		NOTE: Additional System Considerations unavailab
			Does the design utilise a setback wall in this orthogonal direction?	ı Warner - 1	twarner	@boabc.org		NOTE: Additional System Considerations unavailabl
			Does the design utilise a setback wall in this orthogonal direction?	ı Warner - 1	twarner	@boabc.org		NOTE: Additional System Considerations unavailable
			Does the design utilise a setback wall in this orthogonal direction?	1 Warner - 1	twarner	@boabc.org		NOTE: Additional System Considerations unavailabl
			Does the design utilise a setback wall in this orthogonal direction?	1 Warner - 1	twarner	@boabc.org		NOTE: Additional System Considerations unavailab

😑 🔒 (I-1) General 🔫

🔒 (I-3) Design & Feedback 🝷

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USER INPUT SHEETS:

1-1

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R-4

1-4

For Design, Compliance and Construction

Sheet (I-2): Inputs - Bands

For Braced Storeys Calculator Feedback: For walls supporting: Abbreviation Orthogonal Axis Description of Entry Required User Entries Number of Bands: 2 . feet 2 - inches 31.167 feet Total distance between centerlines of end Bands: 31 + Bands labelled along Horizontal Axis (Bands labelled 1. 2. 3... etc..) Average Spacing of Bands: 9,500 31.167 feet m Does the design utilise a setback wall in this orthogonal direction? NOTE: Additional System Considerations unavailable. Roof Only R Number of Bands: 2 -24.583 feet 7 - inches 24 feet Total distance between centerlines of end Bands: Bands labelled along Vertical Axis (Bands labelled A, B, C ... etc.) Average Spacing of Bands: 24.583 7.493 m feet Does the design utilise a setback wall in this orthogonal direction? NOTE: Additional System Considerations unavailable. Yes No | Permit/File Number: BP 9999999 | Calculations completed by: Tim warmer@boabc.org <End of Sheet (I-2) Bands> 🔒 (I-1) General * a (I-2) Bands -G (I-3) Design & Feedback -🔒 (I-4) Length Compliance 🔹 R-1) Unadjusted ~ T 11 of 49 rows

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USER INPUT SHEETS:

1-1

1-2

1-3

1-4

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R-4

For Design, Compliance and Construction

Sheet (I-2): Inputs - Bands

For Braced Storeys Calculator Feedback: For walls supporting: Abbreviation Orthogonal Axis Description of Entry Required User Entries Number of Bands: 2 . feet 2 - inches 31.167 feet Total distance between centerlines of end Bands: 31 + Bands labelled along Horizontal Axis (Bands labelled 1. 2. 3... etc..) Average Spacing of Bands: 9,500 31.167 feet m Does the design utilise a setback wall in this orthogonal direction? NOTE: Additional System Considerations unavailable. Roof Only R Number of Bands: 2 -24.583 feet 7 - inches 24 feet Total distance between centerlines of end Bands: Bands labelled along Vertical Axis (Bands labelled A, B, C ... etc.) Average Spacing of Bands: 24.583 7.493 m feet Does the design utilise a setback wall in this orthogonal direction? NOTE: Additional System Considerations unavailable. Yes No | Permit/File Number: BP 9999999 | Calculations completed by: Tim warms - w/a ner@boabc.org <End of Sheet (I-2) Bands> 🔒 (I-1) General * a (I-2) Bands -G (I-3) Design & Feedback -🔒 (I-4) Length Compliance 🔹 R-1) Unadjusted ~ T 11 of 49 rows

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For Design, Compliance and Construction

Sheet (I-2): Inputs - Bands

For Braced Storeys							Calculator Feedback:
For walls supporting:	Abbreviation	Orthogonal Axis	Description of Entry Required	User Entries			
		1	Number of Bands:	2 *			
	11.0	Bands labelled along Horizontal Axis	Total distance between centerlines of end Bands:	31 - feet	2 - inches	31.167 feet	
		(Bands labelled 1, 2, 3 etc)	Average Spacing of Bands:	31.167 feet		9.500 m	
Dest Only			Does the design utilise a setback wall in this orthogonal direction?	-			NOTE: Additional System Considerations unavailable
Roof Only	R		Number of Bands:	2 *			
	1.1.1.1	Bands labelled along Vertical Axis	Total distance between centerlines of end Bands:	24 + feet	7 - inches	24.583 feet	
	1.0.0	(Bands labelled A, B, C etc.)	Average Spacing of Bands:	24.583 feet		7.493 m	
			Does the design utilise a setback wall in this orthogonal direction?	YUS +			NOTE: Additional System Considerations unavailable
			Permit/File Number PD, 0000001 Colculations completed by Tim	Warner - twarn	ar@baaba ara l		
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Sheet (I-2): Input	s - Bands				USER INPUT	HEETS: 1-1 1-2 1-3 1-4 R-
or Braced Storeys						Calculator Feedback:
or walls supporting:	Abbreviation	Orthogonal Axis	Description of Entry Required	User Entries		
	1		Number of Bands:	2 -		
		Bands labelled along Horizontal Axis	Total distance between centerlines of end Bands:	31 - feet 2 -	inches 31.167 feet	
	1.	(Bands labelled 1, 2, 3 etc)	Average Spacing of Bands:	31.167 feet	9.500 m	
204800	1.5		Does the design utilise a setback wall in this orthogonal direction?			NOTE: Additional System Considerations unavailable
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		and the second sec	Does the design utilise a setback wall in this orthogonal direction?	Yus +	1 cont	NOTE: Additional System Considerations unavailable
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-	Storeys	D		Bracing into Roof System			(m)	Caclulation M Required B (ft)	Method (Tables)	NT. Design Driver	Ca (m)		thod (Alternativ	
r Braced Band ID	Storeys Pr Building Dimension	ID rimary Bracing Det Reference	ails		Secondary Interior/Reverse	Bracing Details		Required B	Method (Tables) racing Length % of Building	Design		Required B	thod (Alternativ racing Length % of [] Building	re) Desig
Braced Band ID	Storeys Pr Building Dimension Band (m)	ID rimary Bracing Det Reference	ails	Roof System	Secondary Interior/Reverse Drywall	Bracing Details	(m)	Required B	Method (Tables) Fracing Length % of Building Dimension	Design Driver	(m)	Required B	thod (Alternativ racing Length % of [] Building Dimension	re) Desig Drive
Band ID	Storeys Pr Building Dimension Band (m) * 8.001	ID rimary Bracing Det Reference	ails	Roof System N/A	Secondary Interior/Reverse Drywall #N/A	Bracing Details	(m) #N/A	Required B (ft) #N/A	Method (Tables) racing Length % of Building Dimension #N/A	Design Driver #N/A	(m) #N/A	Required B (ft) #N/A	thod (Alternativ racing Length % of [] Building Dimension #N/A	e) Desig Drive #N//
r Braced	Storeys Pr Building Dimension Band (m) * 8.001 * 8.001	ID rimary Bracing Det Reference	ails	Roof System N/A N/A	Secondary Interior/Reverse Drywall #N/A #N/A	Bracing Details	(m) #N/A #N/A	Required B (ft) #N/A #N/A	Method (Tables) Fracing Length Building Dimension #N/A #N/A	Design Driver #N/A #N/A	(m) #N/A #N/A	Required B (ft) #N/A #N/A	thod (Alternativ racing Length % of [] Building Dimension #N/A #N/A	re) Desig Drive #N// #N//

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🔒 (I-3) Design & Feedback 🝷

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or Bra	aced Sta	oreys Pri Building Dimension	imary Bracing Det	ails		Secondary Interior/Reverse	y Bracing Details	**	Required B	Method (Tables) tracing Length % of Building	Design		Required B	thod (Alternativ racing Length % of [] Building	re) Desig Drive
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🔒 (I-1) General 👻 🔒 (I-2) Bands 👻 =

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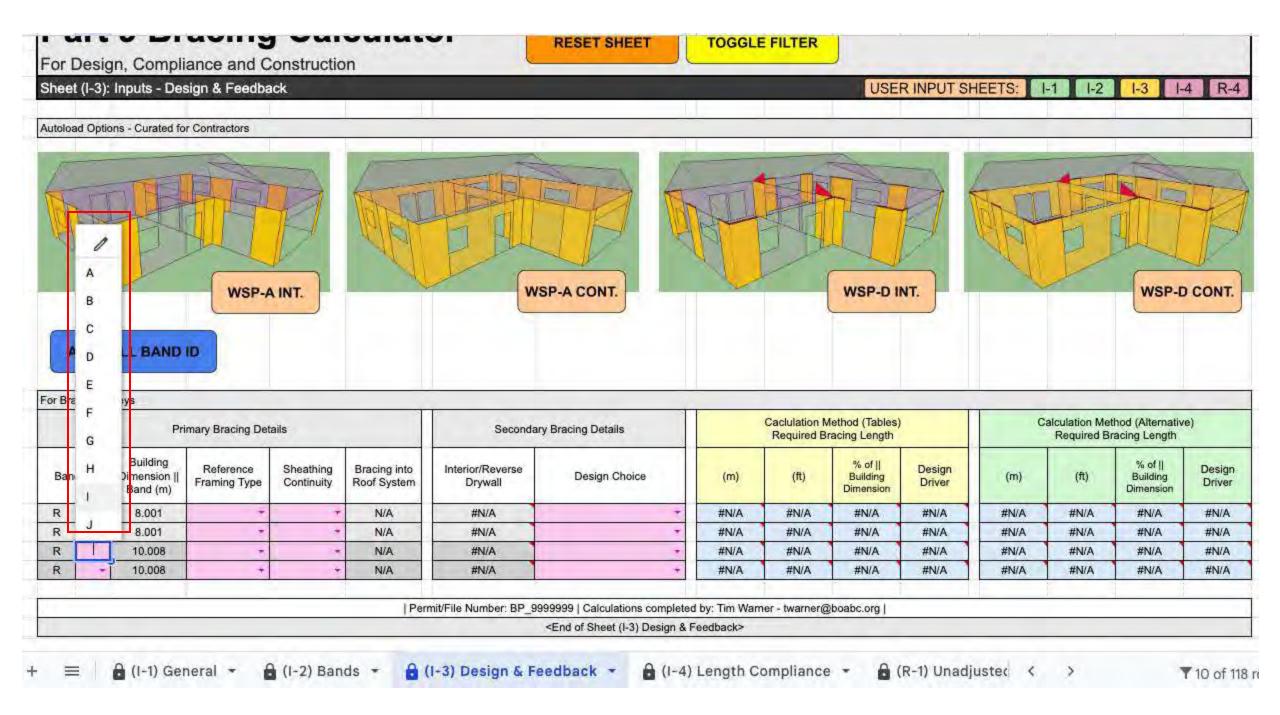
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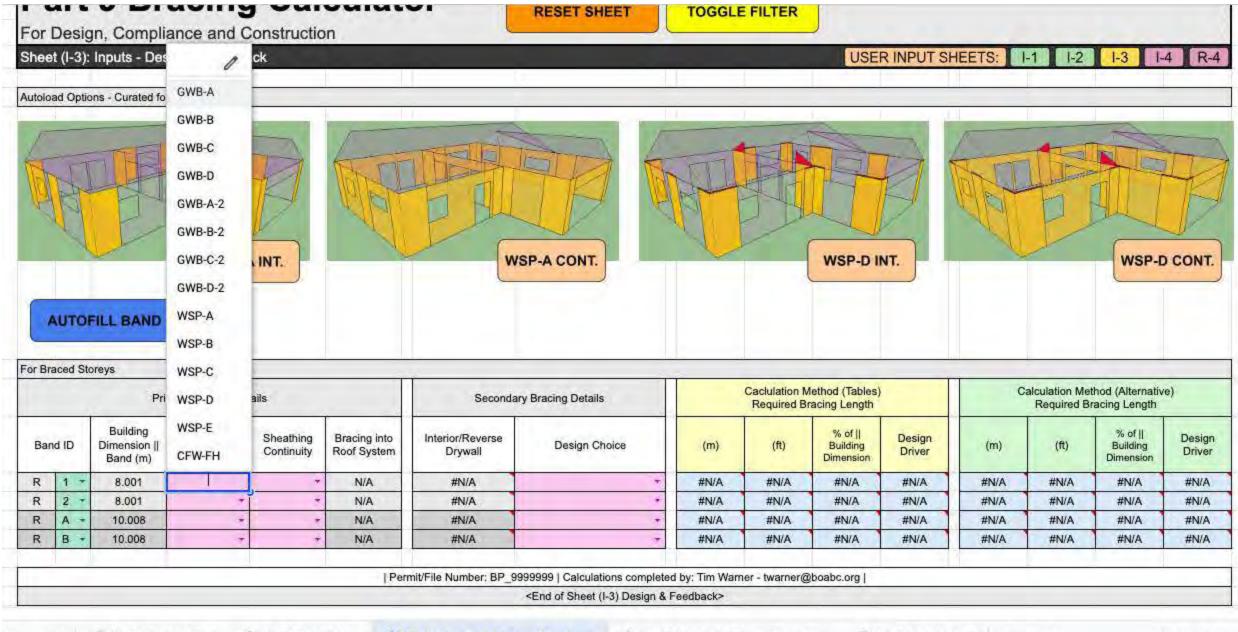
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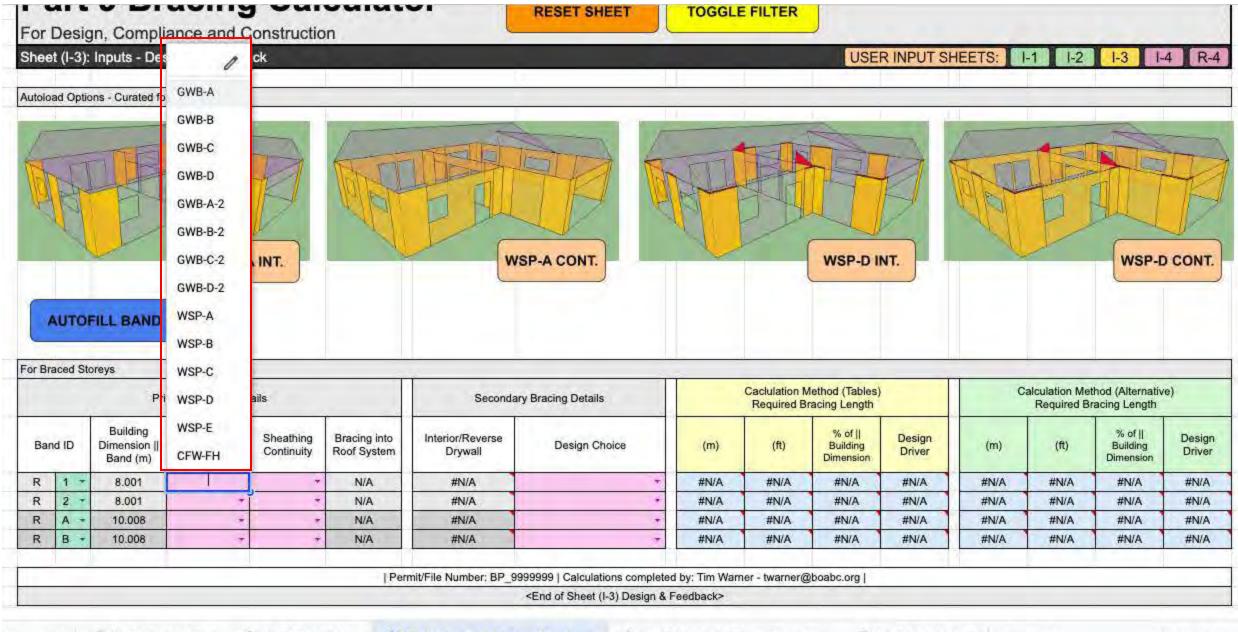
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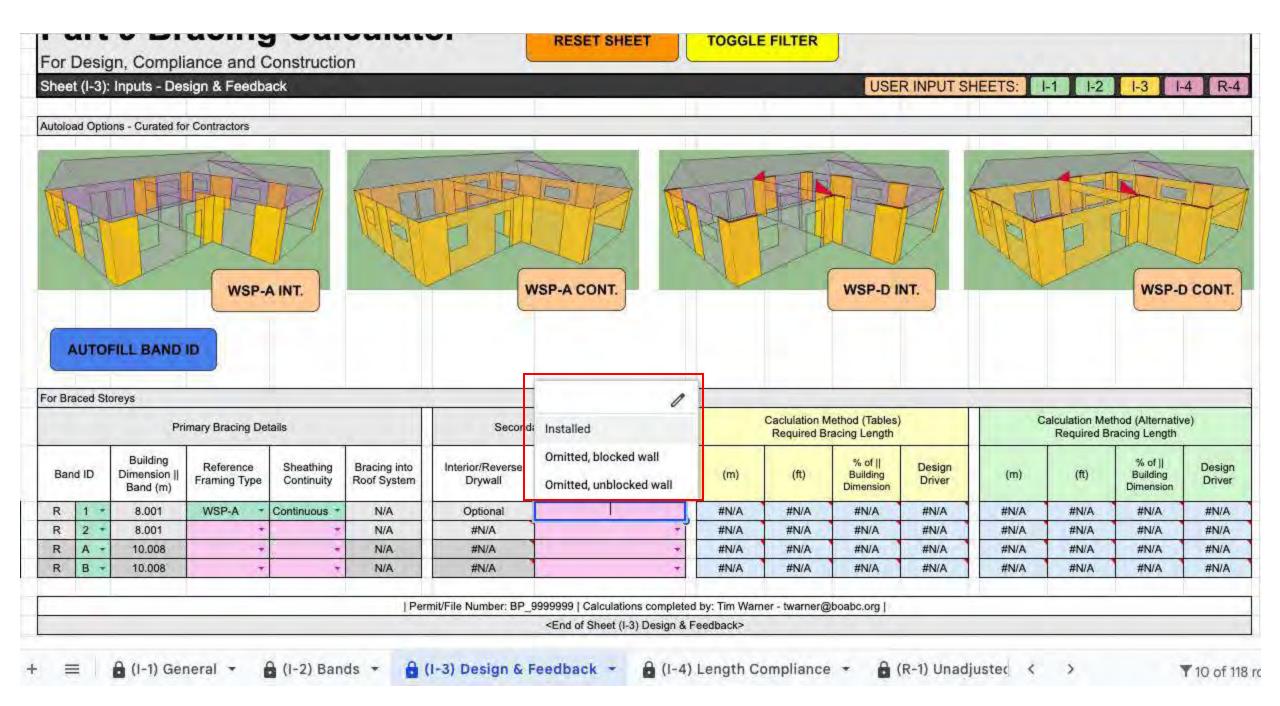
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Band R R R	1 ID 1 * 2 * A *	oreys Pri Building Dimension Band (m) 8.001 8.001 10.008	mary Bracing De Reference Framing Type WSP-D WSP-D	Sheathing Continuity Intermittent - Intermittent - Intermittent -	Roof System Required Required Required	Interior/Reverse Drywall Optional Optional Optional	Design Choice Installed Installed Installed	(m) 1.125 1.125 1.113	Required B (ft) 3.692 3.692 3.652	Aracing Length % of Building Dimension 14% 14% 11%	Design Driver SEISMIC SEISMIC	(m) 1.005 1.005 0.994	(ft) 3.297 3.297 3.261	Aracing Length % of Building Dimension 13% 13% 10%	Desig Drive SEISM SEISM SEISM
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For Design, Compliance and Construction

Sheet (I-4): Inputs - Total Length Compliance (Tables and Alternative)

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USER INPUT SHEETS:

Plan Check Note: In addition to compliant total lengths, review provided length against minimum Panel length per BCBC2024 T-9.23.13.5.

							-	Total Leng	gth o	f Panel	ls in	each Band	-					Code Con	
1					Tables	3			A	lternati	ve				Provid	ed		Code Con	npliance Check
Ban	d ID	Reference Framing Type	Ft	-	In	•	1/16	Ft	4	In	•	1/16	F	-	In		1/16	Tables	Alternative
R	1	WSP-A	7	-	8	•	10	6	-	9	•	15		-		-	*	FAIL	FAIL
R	2	WSP-A	7	4	8		10	6		9	1	15	2					FAIL	FAIL
R	A	WSP-A	7	10.0	7		8	6	-	9	1	1			-	+ -	1	FAIL	FAIL
R	В	WSP-A	7	-	7	1	8	6	-	9	4	1	3			*	+	FAIL	FAIL
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For Design, Compliance and Construction

Sheet (I-4): Inputs - Total Length Compliance (Tables and Alternative)

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Plan Check Note: In addition to compliant total lengths, review provided length against minimum Panel length per BCBC2024 T-9.23.13.5.

							-	Total Leng	gth o	f Panel	ls in	each Band							Code Com	-Uners Charle
1					Tables	5			A	lternati	ve				P	rovided	1		Code Com	pliance Check
Ban	d ID	Reference Framing Type	Ft	-	In	-	1/16	Ft	4	In	•	1/16		Ft	-	In	-	1/16	Tables	Alternativ
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R	2	WSP-A	7	-	8	1	10	6		9	1	15	2						FAIL	FAIL
R	A	WSP-A	7	0.0	7		8	6	-	9	•	1				+	-	-	FAIL	FAIL
R	В	WSP-A	7	-	7		8	6	-	9	4	1	3		1	.*	-	+	FAIL	FAIL
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For Design, Compliance and Construction

Sheet (I-4): Inputs - Total Length Compliance (Tables and Alternative)

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Plan Check Note: In addition to compliant total lengths, review provided length against minimum Panel length per BCBC2024 T-9.23.13.5.

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							-	Total Leng	gth c	f Pane	ls in	each Band	-						Code Com	linnen Chaok
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Ban	DIE	Reference Framing Type	Ft	-	In	-	1/16	Ft	-	In	π	1/16	F	ł	-	In	+	1/16	Tables	Alternative
R	1	WSP-A	7	-	8	-	10	6		9	-	15	8	-	-	-		+	PASS	PASS
R	2	WSP-A	7	-	8	-	10	6	-	9	-	15	7	-	-	6		*	FAIL	PASS
R	A	WSP-A	7	4	7	-	8	6	-	9	14	1	8	*	-			*	PASS	PASS
R	В	WSP-A	7	-	7	9	8	6	1	9	-	1	8		-	-		+	PASS	PASS

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For Design, Compliance and Construction

Sheet (I-4): Inputs - Total Length Compliance (Tables and Alternative)

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Plan Check Note: In addition to compliant total lengths, review provided length against minimum Panel length per BCBC2024 T-9.23.13.5

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Ban	d ID	Reference Framing Type	Ft	-	In	-	1/16	Ft	-	In	π	1/16	F	4	-	In	-	1/16	Tables	Alternative
R	1	WSP-A	7	-	8	-	10	6	0.0	9	~	15	8	-	-		+ -	+	PASS	PASS
R	2	WSP-A	7	-	8	-	10	6	-	9	-	15	7	-	-	6	-	÷	FAIL	PASS
R	A	WSP-A	7	4	7	5	8	6	-	9	14	1	8	*	-		+ -	+	PASS	PASS
R	В	WSP-A	7	4	7	-	8	6		9	-	1	8		-			-	PASS	PASS

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For Design, Compliance and Construction

Sheet (R-1) Report: Unadjusted Lengths Calculations for Wind and Seismic Forces

WP 1	Table	Bracket		0.4	4 < HWP ≤ (0.5							
Smax	Table	Bracket		1.2	2 < Smax ≤	1.6							
Iraced	I Stor	ey above B/CS	_		N/A								
						Seismic	Unajusted L	engths Tabl	e Values			Unadjuste	d Lengths
Band	ID	Building Dimension Band (m)	Reference Framing Type	0.001	3.1	6.1	9.1	12.2	15.2	18.3	20	L(UW) (m)	L(US)
R	1	8.001	WSP-A	0.880	0.880	1.520	2.160	2.810	3.450	4.110	4.470	1.900	1.926
R	2	8.001	WSP-A	0.880	0.880	1.520	2.160	2.810	3.450	4.110	4.470	1.900	1.926
R	A	10.008	WSP-A	0.880	0.880	1.520	2.160	2.810	3.450	4.110	4.470	1.900	2.350
R	В	10.008	WSP-A	0.880	0.880	1.520	2.160	2.810	3.450	4.110	4.470	1.900	2.350
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For Design, Compliance and Construction

Sheet (R-2): Report - Adjustment Factors and Adjusted Lengths - Calculation Method (Tables)

Plan Check Note: Review Adjustment Factors against BCBC2024 T-9.23.13.7 -B and T-9.23.13.7 -D

For Braced Storeys

				4					WINE				Total				SEISMIC			
Band	(ID	Building Dimension Band (m)	Reference Framing Type	Sheathing Continuity	Interior/Reverse Drywall	L(UW) (m)	K(W) exp	K(W) roof	K(W) spacing	K(W) number	K(W) gyp	K(W) sheath	<u>L(W)</u> (m)	L(US) (m)	K(S) weight	K(S) snow	K(S) spacing	K(S) number	K(S) gyp	
	1	8.001	WSP-A	Continuous	Installed	1.900	1.000	0.520	1.222	1.000	1.000	1.000	1.207	1.926	1.000	1.000	1.222	1.000	1.000	1
J	2	8.001	WSP-A	Continuous	Installed	1.900	1.000	0.520	1.222	1.000	1.000	1.000	1.207	1.926	1.000	1.000	1.222	1.000	1.000	1
	A	10.008	WSP-A	Continuous	Installed	1.900	1.000	0.520	0.986	1.000	1.000	1.000	0.974	2.350	1.000	1.000	0.989	1.000	1.000	\underline{A}
	В	10.008	WSP-A	Continuous	Installed	1.900	1.000	0.520	0.986	1.000	1.000	1.000	0.974	2.350	1.000	1.000	0.989	1.000	1.000	\underline{A}
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Sard (D	Building Dimension () Band (m)	Reference Enaming Type	Sheathing Continuity	Interconflowence Drywald	010	*(W)	K(W) cost	R(WI) spacing	*(15)	K(WI DYP	K(W) sheath	LONG UND	L(US) (m)	KIS)	H(S) snow	K(S) Isolong	Ki
R 1	6.001	WSP-A	Continuous	installed	1.900	1,000	0.525	1,222	T.000	1.000	1,000	1.202	1,928	1.000	1,000	1,222	17
R	8.001	WSP-A	Continuous	Initalled	1.900	1.000	0.530	1.222	1.000	1.000	1.000	1,207	1,925	1.000	1.000	1.222	1.0
RU	10.008	AREW	Continuous	hystalied	1.900	1.000	0.520	0,966	1.000	1.000	1.000	0.974	2.350	1.000	1,000	0.089	3.6
N 1-1		WERA	Contempotes	Installed	1.900	1.000	0.520	0.986	1.000	1.000	1.000	0.974	2.350	1.000	1.000	0.989	

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_		-	_	_	11				Total	1			CHISMIC.		_		Total	Most R	estrictive.
	Interior/Revenue Drywall	L(UW) (70	R(W) RIE	Kow) roaf	K(W), spaking	K(M) NumBer	K(W) 879	K(W) sheath		L(US) (m)	K(S) whigh	K(S) shaw	K(S) spacing	K(S) number	K(5) 999	K(S) sheats	Total L(S) (m)	Mast R Required Length (m)	
24	Interior/Reverse Drywall		8(W) 6/6	Kow) road 0.520			K(W) 87P	K(W) sheath 1.000					K(S)		K(5) 590			Required	
er us		010	40	rout	specing	number	RMP	sheath	100	(m) -	weight	97699	K(S) spacing	number	1.1	sheath	13)	Required Length (m)	Design Driver
er us	Installed	010	1.000	0.520	specing 1.222	number 1.000	80P 1.000	sheath 1.000	LINO CEL	(m) -1.926	wright 1.000	9/1098 5.000	K(S) spacing 1,222	number 1.000	1.000	sheath 1.000	1.051	Required Length (m) 2,352	Design Driver

Permit/File Number: BP_9999999 (Calculations completed by: Tim Warner - tw	men@boabc.org (
<end (r-2)="" (tables)="" adjusted="" lengths="" of="" sheet=""></end>	

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		-					_			MME	_			_	Total	-				
d ID	Building Dimension () Band (m)	Reference Framing Type	Sheathing Continuity	Interior/Reverse D	Drywall	C(W) storey	K(W) frame	HWP (1/50)	K(W) exp	K(W) reaf	K(W) specing	K(W) number	K(W) gyp	K(W) sheath	L(1001.0m)	C(S) stoney	C(S) walls	C(S) root		
1	8.001	WSP-A	Continuous	Installed	-	3.840	1.000	0.480	1.000	0.520	1.222	1.000	1.000	1.000	1.171	1.000	0.746	0.227	1	
2	and the subscription of the local division o	WSP-A	Continuous	Installed		3.840	1.000	0.480	1.000	0.520	1.222	1.000	1.000	1.000	1.171	1.000	0.746	Contract of the local division of the local	1	
A B	10.008	WSP-A WSP-A	Continuous	Installed Installed		3.840	1.000	0.480	1.000	0.520	0.986	1.000	1.000	1.000	0.945	1.000	0.897	the second se	-	
1.00	1 10,000	I marine	Containavous	10040104		3,040	1 1,000, 1	0.400	1.000	V.MEN	0.000	1.000	9,000	1,000	V.C.V	1,000	T woer	1.0.600	1	
										1 Permit/F	to Murither	BP 999999	9 Calculat	ions comple	ded by: Tim	amer - two	amenilibra	shr nen l		
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		Alternative)				108										and the second se		Total	Most	
		Allernative)	MMAD K(00) K(00) roof Specify	K(W) K(W number Bys		Elimini	in an				X(S) Stame					and the second se	K(S) sheatb		Mosil Required Length (m	Restricts
	Jan Method (-D K(W) HWP	Alternative) s(W) exp	K(0) K(0)		p shea	1 10 10 10 10 10	m) Crs store	ey walts	s noof	8	K(S) Stame	<end o<="" td=""><td>K(S)</td><td>3) Adjusted</td><td>Lengths (An</td><td>K(S)</td><td>K(S)</td><td>Total L(\$).(m) 2.081</td><td>Required</td><td>Bei Restrictiv) Dasig</td></end>	K(S)	3) Adjusted	Lengths (An	K(S)	K(S)	Total L(\$).(m) 2.081	Required	Bei Restrictiv) Dasig
	Ion Melhod (D K(W) HWP rame (1/50 1.000 0.480	Alternative)	K(W) rest Spectry 0.520 1.222 0.520 1.222	1 number gys 1.000 1.00 1.000 1.00	p shea 00 3,00 00 1,08	1 LOVAL	m) CrS store 1 1.00 1 1.00	ey walls 0 0.744 0 0.744	6 0.227 6 0.227	8 1558 1.505	-X(3) Stame 1,000 1,000	<end c<="" td=""><td>K(S) Weight 1.000</td><td>3) Adjusted K(S) spacing 1,222 1,222</td><td>K(S) number 3,000</td><td>K(S) SVP 1,000 1.000</td><td>K(S) sheatb 1.000</td><td>Total L(S).(m) 2081 2081</td><td>Required Length (m 2.081 2.051</td><td>Restricts</td></end>	K(S) Weight 1.000	3) Adjusted K(S) spacing 1,222 1,222	K(S) number 3,000	K(S) SVP 1,000 1.000	K(S) sheatb 1.000	Total L(S).(m) 2081 2081	Required Length (m 2.081 2.051	Restricts
	Ion Melhod (D K(W) HWP rame (1/50) L000 0.480 L000 0.480	Alternative) (K(W) exp 1 000 1.000 1.000	K(W) K(W) rest specify 0.520 1.222 0.520 1.222 0.520 0.986	1 number gys 1.000 1.00 1.000 1.00 1.000 1.00	p shea 00 3.00 00 1.00 00 1.00	1 LCM1	m) Crs store 1 1.00 1 1.00 5 1.00	ey wale 0 0.744 0 0.744 0 0.891	6 0.227 6 0.227 7 0.286	8 1 568 1 555 1 555	-X(3) frame 1,000 1,000 1,000	<end of<br="">555/50/00 5550 1.550 1.550</end>	K(S) Weight 1.000 1.000	3) Adjusted K(S) Specing 1,222 1,222 0,980	K(S) number 3.000 1.000	K(S) SVP 1.000 1.000	K(S) sheath 1.000 1.000	Total L(S) (m) 2.081 2.058	Required Length (m 2.081 2.081 2.081 2.058	Restriction
	Ion Melhod (D K(W) HWP rame (1/50 1.000 0.480	Alternative) (K(W) exp 1 000 1.000 1.000	K(W) rest Spectry 0.520 1.222 0.520 1.222	1 number gys 1.000 1.00 1.000 1.00	p shea 00 3.00 00 1.00 00 1.00	1 LCM1	m) Crs store 1 1.00 1 1.00 5 1.00	ey wale 0 0.744 0 0.744 0 0.891	6 0.227 6 0.227 7 0.286	8 1 558 1 558 1 555	-X(3) frame 1,000 1,000 1,000	<end c<="" td=""><td>K(S) Weight 1.000</td><td>3) Adjusted K(S) spacing 1,222 1,222</td><td>K(S) number 3,000</td><td>K(S) SVP 1,000 1.000</td><td>K(S) sheatb 1.000</td><td>Total L(S).(m) 2081 2081</td><td>Required Length (m 2.081 2.051</td><td>Restriction</td></end>	K(S) Weight 1.000	3) Adjusted K(S) spacing 1,222 1,222	K(S) number 3,000	K(S) SVP 1,000 1.000	K(S) sheatb 1.000	Total L(S).(m) 2081 2081	Required Length (m 2.081 2.051	Restriction

Part 9 Bracing Calcul	ator 🗾	ESET SHEET	PRINT DASHROARD	beta_1.0
For Design, Compliance and Construction Sheet (R-4): Report - Construction (Part 1)		USER INPUT SI	HEETS: 1-1 1-2 1-3	1-4 R-4
		CELIMINE 482		
Builder Preferences		Caclulator Feedback		
Anchor Bolts (Diameter)	*	Cacillator I Couback	45	
Framing Nails	*			
Wood-based Braced Wall Panel Sheathing Nails		3		
Wood-based Wall Sheathing (not in BWPs) Fasteners				
Gysum-based Braced Wall Panel Sheathing Fasteners	÷	Screws require minin	num 3/4" embed into framing	
Wood-based Subfloor Sheathing Fasteners	т			
Wood-based Roof Sheathing Fasteners	+			
General Construction Details Relating to Lateral Bracing System			_	
Anchor Bolt Spacing based on Design Inputs and Builder Preferences				
Anchor Bolt Diameter:				
Anchor Bolt Minimum Embed into Foundation:	4"		1. 10.0 July 1. 1.	
Maximum Spacing for Anchor Bolts not in Braced Wall Panels.*	8' an center	*See Report - Constr	uction (Part 2) for Panel specific ancho	or bolt spacing
Anchor bolts to be positioned within 12" of foundation wall corners, and w	ithin 12" of Panel edges			
Lateral Bracing System Framing Nail Connections and Spacing based on	Design Inputs and Builder Prefere	nces		
Fastener Type:				
			Spacing (in)	Number
Rim joist, trimmer joist or blocking - supporting walls with required braced	d wall panels - to sill plate or top wa	all plate - toe nall	#N/A	
Blocking to stud or stud to wall plate (each end) toe nail				#N/A

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Part 9 Bracing Calcul	ator 💦	ESET SHEET	PRINT DASHRGARD	beta_1.04
For Design, Compliance and Construction				
Sheet (R-4): Report - Construction (Part 1)		USER INPUT SHE	ETS: I-1 I-2 I-3	1-4 R-4
Builder Preferences		Caclulator Feedback:		
Anchor Bolts (Diameter)		Gaciulator Feedback.		
Framing Nails				
Wood-based Braced Wall Panel Sheathing Nails	-			_
Wood-based Wall Sheathing (not in BWPs) Fasteners	÷	1		
Sysum-based Braced Wall Panel Sheathing Fasteners	÷	Screws require minimum	n 3/4" embed into framing	
Wood-based Subfloor Sheathing Fasteners	T			
Wood-based Roof Sheathing Fasteners	-			
Anchor Bolt Spacing based on Design Inputs and Builder Preferences				
Anchor Bolt Diameter:				_
Anchor Bolt Minimum Embed into Foundation:	4"			
Maximum Spacing for Anchor Bolts not in Braced Wall Panels:*	8' on center	*See Report - Construct	ion (Part 2) for Panel specific ancho	or bolt spacing
Anchor bolts to be positioned within 12" of foundation wall corners, and w	a that contracts			
ateral Bracing System Framing Nail Connections and Spacing based or	Design inputs and Builder Preferen	nces		
astener Type:			Session (in)	Number
	d wall nanels - to sill plate or ton wa	Il plate - toe nail	Spacing (in) #N/A	Number
Rim joist trimmer joist or blocking - supporting walls with required brace		in plane - too rian	much	
Rim joist, trimmer joist or blocking – supporting walls with required brace Blocking to stud or stud to wall plate (each end) toe nail	a wan panoia - to an plate or top we		1	#N/A

Part 9 Bracing Calculator			ESET SHEET	PRINT DASHIBDARD	beta_1.0
Sheet (R-4): Report - Construction (Part 1)			USER INPUT S	HEETS: 1-1 1-2 1-3	1-4 R-4
		_	Contraction to all of		_
Builder Preferences		- 1	Caclulator Feedback		
Anchor Bolts (Diameter)					
Framing Nails Wood-based Braced Wall Panel Sheathing Nails	1/2"				
Wood-based Wall Sheathing (not in BWPs) Fasteners	5/8"				
Gysum-based Braced Wall Panel Sheathing Fasteners		1.11	Screws require minin	num 3/4" embed into framing	
Wood-based Subfloor Sheathing Fasteners		0			
Wood-based Roof Sheathing Fasteners		Ŧ.			
	14122 C	_			
General Construction Details Relating to Lateral Bracing Sys		1	T		
Anchor Bolt Spacing based on Design Inputs and Builder Pr Anchor Bolt Diameter:		41	[
Anchor Bolt Spacing based on Design Inputs and Builder Pr Anchor Bolt Diameter: Anchor Bolt Minimum Embed into Foundation:	references	4"	*Sag Baport - Constr	uction (Part 2) for Dana) energing and	v holt spacing
Anchor Bolt Spacing based on Design Inputs and Builder Pr Anchor Bolt Diameter: Anchor Bolt Minimum Embed into Foundation: Maximum Spacing for Anchor Bolts <u>not</u> in Braced Wall Pane	references als:* 8' c	4" on center	*See Report - Constr	uction (Part 2) for Panel specific anche	or bolt spacing
Anchor Bolt Spacing based on Design Inputs and Builder Pr Anchor Bolt Diameter: Anchor Bolt Minimum Embed into Foundation: Maximum Spacing for Anchor Bolts <u>not</u> in Braced Wall Pane Anchor bolts to be positioned within 12° of foundation wall co	eferences	on center	1	uction (Part 2) for Panel specific ancho	or bolt spacing
Anchor Bolt Spacing based on Design Inputs and Builder Pr Anchor Bolt Diameter: Anchor Bolt Minimum Embed into Foundation: Maximum Spacing for Anchor Bolts <u>not</u> in Braced Wall Pane Anchor bolts to be positioned within 12" of foundation wall co Lateral Bracing System Framing Nail Connections and Space	eferences	on center	1	uction (Part 2) for Panel specific ancho	or bolt spacing
Anchor Bolt Spacing based on Design Inputs and Builder Pr Anchor Bolt Diameter: Anchor Bolt Minimum Embed into Foundation: Maximum Spacing for Anchor Bolts <u>not</u> in Braced Wall Pane Anchor bolts to be positioned within 12" of foundation wall co acteral Bracing System Framing Nail Connections and Space	eferences	on center	1		
Anchor Bolt Spacing based on Design Inputs and Builder Pr Anchor Bolt Diameter: Anchor Bolt Minimum Embed into Foundation: Maximum Spacing for Anchor Bolts <u>not</u> in Braced Wall Pane Anchor bolts to be positioned within 12° of foundation wall co	els:* B' of Panel edges	on center	nçes	uction (Part 2) for Panel specific ancho Spacing (in) #N/A	or bolt spacing Number

Part 9 Bracing Calculator			ESET SHEET	INT DASHIBDARD	beta_1.
Sheet (R-4): Report - Construction (Part 1)		- 2	USER INPUT SHEETS	1-1 1-2 1-3	1-4 R
		_			
		-			
Builder Preferences			Caclulator Feedback:		
Anchor Bolts (Diameter)					
raming Nails	1/2"				
lood-based Braced Wall Panel Sheathing Nails	E /0 ³				
lood-based Wall Sheathing (not in BWPs) Fasteners	5/8"				
sysum-based Braced Wall Panel Sheathing Fasteners	-	0	Screws require minimum 3/4"	embed into framing	
Vood-based Subfloor Sheathing Fasteners		0		and share the second	
Vood-based Roof Sheathing Fasteners		- 7			
Seneral Construction Details Relating to Lateral Bracing Sys Anchor Bolt Spacing based on Design Inputs and Builder Pr					
nchor Bolt Diameter:					
		4"			
nchor Bolt Minimum Embed into Foundation:			*See Report - Construction (P	art 2) for Panel specific ancho	the late to be a design of the second s
Anchor Bolt Minimum Embed into Foundation: Maximum Spacing for Anchor Bolts <u>not</u> in Braced Wall Pane		on center	The second second second second	are/ or / are openine area	or boit spacing
		on center	[]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]		or bolt spacing
laximum Spacing for Anchor Bolts not in Braced Wall Pane	omers, and within 12" of Panel edges				or bolt spacing
laximum Spacing for Anchor Bolts <u>not</u> in Braced Wall Pane inchor bolts to be positioned within 12" of foundation wall co ateral Bracing System Framing Nail Connections and Space	omers, and within 12" of Panel edges				r bolt spacing
aximum Spacing for Anchor Bolts <u>not</u> in Braced Wall Pane nchor bolts to be positioned within 12" of foundation wall co ateral Bracing System Framing Nail Connections and Space	omers, and within 12" of Panel edges			Spacing (in)	n boit spacing Number
Naximum Spacing for Anchor Bolts <u>not</u> in Braced Wall Pane anchor bolts to be positioned within 12" of foundation wall co	omers, and within 12" of Panel edges ing based on Design Inputs and Build	er Preferei	nces		

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R-4

1-4

For Design, Compliance and Construction

Sheet (R-4): Report - Construction (Part 1)

USER INPUT SHEETS:

Builder Preferences			Caclulator Feedback:
Anchor Bolts (Diameter)		1/2" -	
Framing Nails			
Wood-based Braced Wall Panel Sheathing Nails	3 1/4" x 0.113" (Strip/	Coil)	
Wood-based Wall Sheathing (not in BWPs) Fasteners			1
Gysum-based Braced Wall Panel Sheathing Fasteners	3 1/4" x 0.120" (Std St	trip/Coll)	Screws require minimum 3/4" embed into framing
Wood-based Subfloor Sheathing Fasteners	3 1/4" x 0.131" (Strip/	Coil)	
Wood-based Roof Sheathing Fasteners			
	3 1/4" x 0.148" (Strip/	Coll)	
General Construction Details Relating to Lateral Bracing System	3 1/4" x 0.144" (Comn	non)	
Anchor Bolt Spacing based on Design Inputs and Builder Prefer		0	
Anchor Bolt Diameter:	1	1/2"	
Anchor Bolt Minimum Embed into Foundation:		4"	
Maximum Spacing for Anchor Bolts not in Braced Wall Panels:*		8' on center	*See Report - Construction (Part 2) for Panel specific anchor bolt spacing

Anchor bolts to be positioned within 12" of foundation wall corners, and within 12" of Panel edges

Lateral Bracing System Framing Nail Connections and Spacing based on Design Inputs and Builder Preferences								
Fastener Type:								
	Spacing (in)	Number						
Rim joist, trimmer joist or blocking - supporting walls with required braced wall panels - to sill plate or top wall plate	- toe nail #N/A							
Blocking to stud or stud to wall plate (each end) toe nail		#N/A						

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R-4

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For Design, Compliance and Construction

Sheet (R-4): Report - Construction (Part 1)

USER INPUT SHEETS:

Builder Preferences	Caclulator Feedback:		
Anchor Bolts (Diameter)		/2" =	
Framing Nails			2
wood-based Braced Wall Panel Sheathing Nails	3 1/4' x 0.113" (Strip/Coil)		
Wood-based Wall Sheathing (not in BWPs) Fasteners			
Gysum-based Braced Wall Panel Sheathing Fasteners	3 1/4" x 0.120" (Std Strip/Coll)		Screws require minimum 3/4" embed into framing
Wood-based Subfloor Sheathing Fasteners	3 1/4" x 0.131" (Strip/Coil)		
Wood-based Roof Sheathing Fasteners	3 1/4" x 0.148" (Strip/Coil)	1.5	
General Construction Details Relating to Lateral Bracing System	3 1/4" x 0.144" (Common)		
Anchor Bolt Spacing based on Design Inputs and Builder Prefer		0	
Anchor Bolt Diameter:		1/Z"	
Anchor Bolt Minimum Embed into Foundation:		4"	
Maximum Spacing for Anchor Bolts not in Braced Wall Panels:*	8' on	center	*See Report - Construction (Part 2) for Panel specific anchor bolt spacing

Anchor bolts to be positioned within 12" of foundation wall corners, and within 12" of Panel edges

Lateral Bracing System Framing Nail Connections and Spacing based on Design Inputs and Bullder Preferences								
Fastener Type:								
	Spacing (in)	Number						
Rim joist, trimmer joist or blocking - supporting walls with required braced wall panels - to sill plate or top wall plate - toe nail	#N/A							
Blocking to stud or stud to wall plate (each end) toe nail		#N/A						

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R-4

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For Design, Compliance and Construction

Sheet (R-4): Report - Construction (Part 1)

USER INPUT SHEETS:

Builder Preferences			Caciulator Feedback:			
Anchor Bolts (Diamet	ter)	1/2* +				
Framing Nails		3 1/4" x 0.120" (Std Strip/Coil) -				
Wood-based Braced	Wall Panei Sheathing Nails					
Wood-based Wall Sh	eathing (not in BWPs) Fasteners	2 1/2" x 0.099" (Strip/Coil)	·			
Gysum-based Braced	d Wall Panel Sheathing Fasteners		Screws require minimum 3/4" em	bed into framing		
Wood-based Subfloo	r Sheathing Fasteners	2 1/2" x 0.113" (Std Strip/Coil)				
Wood-based Roof Sh	neathing Fasteners	2 1/2" x 0.120" (Strip/Coil)				
General Construction	Details Relating to Lateral Bracing System	2 1/2" x 0.131" (Strip/Coil) 2 1/2" x 0.148" (Strip/Coil)				
Anchor Bolt Spacing	based on Design Inputs and Builder Prefer					
Anchor Bolt Diameter	ri	2 1/2" x 0.144" (Common)				
Anchor Bolt Minimum	Embed into Foundation;					
Maximum Spacing fo	r Anchor Bolts not in Braced Wall Panels.*	0	*See Report - Construction (Part	2) for Panel specific ancho	r bolt spacing	
Anchor bolts to be po	sitioned within 12" of foundation wall corner.	s, and within 12" of Panel edges				
Lateral Bracing Syste	em Framing Nail Connections and Spacing b	ased on Design Inputs and Builder Prefer	ences			
Fastener Type:	3 1/4" x 0.120" (Std Strip/Coil)					
				Spacing (in)	Number	
Rim joist, trimmer jois	st or blocking - supporting walls with require	d braced wall panels - to sill plate or top v	vall plate – toe nail	4.125		
Blocking to stud or st	ud to wall plate (each end) toe nail				5	

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R-4

For Design, Compliance and Construction

Sheet (R-4): Report - Construction (Part 1)

USER INPUT SHEETS:

Builder Preferences				Caciulator Feedback:		
Anchor Bolts (Diame	ster)	1	/2* -	h		
Framing Nails		3 1/4" x 0.120" (Std Strip/C	oil) 🚽			
Wood-based Braced	Wall Panel Sheathing Nails					
Wood-based Wall Sh	heathing (not in BWPs) Fasteners	2 1/2" x 0.099" (Strip/Coil)				
Sysum-based Braced Wall Panel Sheathing Fasteners			-	Screws require minimum 3/4" embed into framing		
Wood-based Subfloo	or Sheathing Fasteners	2 1/2" x 0.113" (Std Strip/Coil)		a construction of the second second second		
Wood-based Roof S	heathing Fasteners	2 1/2" x 0.120" (Strip/Coil)				
General Construction	n Details Relating to Lateral Bracing System	2 1/2" x 0.131" (Strip/Coil) 2 1/2" x 0.148" (Strip/Coil)				
Anchor Bolt Spacing	based on Design Inputs and Builder Prefer		1.1			
Anchor Bolt Diamete	ari	2 1/2" x 0.144" (Common)				
Anchor Bolt Minimun	m Embed into Foundation:	1				
Maximum Spacing fo	or Anchor Bolts not in Braced Wall Panels.*			*See Report - Construction (Part 2) for Panel specific anchor bolt spacing		
Anchor bolts to be po	ositioned within 12" of foundation wall corner	s, and within 12" of Panel edges				
Lateral Bracing System	em Framing Nail Connections and Spacing b	ased on Design Inputs and Builder F	refere	nces		
Fastener Type:	3 1/4" x 0.120" (Std Strip/Coil)					
				Spacing (in)	Number
Rim joist, trimmer joi	ist or blocking - supporting walls with require	d braced wall panels - to sill plate or	top wa	all plate - toe nail	4.125	
Blocking to stud or st	tud to wall plate (each end) toe nail	the second s				

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R-4

For Design, Compliance and Construction

Sheet (R-4): Report - Construction (Part 1)

USER INPUT SHEETS: 1-1

Builder Preferences	ilder Preferences			
Anchor Bolts (Diameter)	1/2* -			
Framing Nails	3 1/4" x 0.120" (Std Strip/Coll) -			
Wood-based Braced Wall Panel Sheathing Nails	2 1/2" x 0,113" (Std Strip/Coil) -			
Wood-based Wall Sheathing (not in BWPs) Fasteners				
Gysum-based Braced Wall Panel Sheathing Fasteners	÷	Screws require minimum 3/4" embed i	into framing	
Wood-based Subfloor Sheathing Fasteners				
Wood-based Roof Sheathing Fasteners				
Anchor Bolt Spacing based on Design Inputs and Builder Prefer				
Anchor Bolt Diameter:	ences			
Anchor Bolt Spacing based on Design Inputs and Builder Prefer Anchor Bolt Diameter: Anchor Bolt Minimum Embed into Foundation:	ences 1/2" 4"		0	
Anchor Bolt Spacing based on Design Inputs and Builder Prefer Anchor Bolt Diameter: Anchor Bolt Minimum Embed into Foundation: Maximum Spacing for Anchor Bolts <u>not</u> in Braced Wall Panels:*	ences 1/2" 4" 8' on center	*See Report - Construction (Part 2) for	r Panel specific anchor	bolt spacin
General Construction Details Relating to Lateral Bracing System Anchor Bolt Spacing based on Design Inputs and Builder Prefer Anchor Bolt Diameter: Anchor Bolt Minimum Embed into Foundation: Maximum Spacing for Anchor Bolts <u>not</u> in Braced Wall Panels:* Anchor bolts to be positioned within 12" of foundation wall come	ences 1/2" 4" 8' on center	*See Report - Construction (Part 2) for	r Panel specific anchor	bolt spacin
Anchor Bolt Spacing based on Design Inputs and Builder Prefer Anchor Bolt Diameter: Anchor Bolt Minimum Embed into Foundation: Maximum Spacing for Anchor Bolts <u>not</u> in Braced Wall Panels:* Anchor bolts to be positioned within 12" of foundation wall come	ences 1/2" 4" 8' on center rs, and within 12" of Panel edges		r Panel specific anchor	bolt spacin
Anchor Bolt Spacing based on Design Inputs and Builder Prefer Anchor Bolt Diameter: Anchor Bolt Minimum Embed into Foundation: Maximum Spacing for Anchor Bolts <u>not</u> in Braced Wall Panels:*	ences 1/2" 4" 8' on center rs, and within 12" of Panel edges		r Panel specific anchor	bolt spacin
Anchor Bolt Spacing based on Design Inputs and Builder Prefer Anchor Bolt Diameter: Anchor Bolt Minimum Embed into Foundation: Maximum Spacing for Anchor Bolts <u>not</u> in Braced Wall Panels:* Anchor bolts to be positioned within 12" of foundation wall come Lateral Bracing System Framing Nail Connections and Spacing	ences 1/2" 4" 8' on center rs, and within 12" of Panel edges		Panel specific anchor	bolt spacin
Anchor Bolt Spacing based on Design Inputs and Builder Prefer Anchor Bolt Diameter: Anchor Bolt Minimum Embed into Foundation: Maximum Spacing for Anchor Bolts <u>not</u> in Braced Wall Panels:* Anchor bolts to be positioned within 12" of foundation wall come Lateral Bracing System Framing Nail Connections and Spacing	ences 1/2" 4" 8' on center rs, and within 12" of Panel edges		Panel specific anchor	bolt spacin

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G (R-4) Construction (Part 1) +

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A (R-5) Comparison -

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R-6) Dbl

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For Design, Compliance and Construction

Sheet (R-4): Report - Construction (Part 1)

USER INPUT SHEETS:

Builder Preferences			Caciulator Feedback:		
Anchor Bolts (Diamete	er)	1/2* -			
Framing Nails		3 1/4" x 0.120" (Std Strip/Coil) -			
Wood-based Braced V	Vall Panel Sheathing Nails	2 1/2" x 0.113" (Std Strip/Coil) -			
Wood-based Wall She	athing (not in BWPs) Fasteners				
Gysum-based Braced	Wall Panel Sheathing Fasteners	Same as BWP nails	Screws require minimum 3/4" em	bed into framing	
Wood-based Subfloor	Sheathing Fasteners	the set of the loss of	a state of the second s		
Wood-based Roof She	eathing Fasteners	Common/Spiral Nails			
General Construction	Details Relating to Lateral Bracing System	Ring Thread Nails			
Anchor Bolt Spacing b	ased on Design Inputs and Builder Prefer	Staples (14g)			
Anchor Bolt Diameter:					
Anchor Bolt Minimum	Embed into Foundation:	0			
Maximum Spacing for	Anchor Bolts not in Braced Wall Panels:*	8' on center	*See Report - Construction (Part 2) for Panel specific anchor bolt spacin		
Anchor bolts to be pos	itioned within 12" of foundation wall comen	s, and within 12" of Panel edges			
Lateral Bracing System	n Framing Nail Connections and Spacing b	ased on Design Inputs and Builder Prefere	nces		
Fastener Type:	3 1/4" x 0.120" (Std Strip/Coil)				
				Spacing (in)	Number
Rim joist, trimmer joist	or blocking - supporting walls with require	d braced wall panels - to sill plate or top wa	all plate – toe nail	4.125	
Placking to stud or stu	d to wall plate (each end) toe nail				

R-4a) Construction (Part 2) -

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A (R-5) Comparison -

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For Design, Compliance and Construction

Sheet (R-4): Report - Construction (Part 1)

USER INPUT SHEETS: 1-1

Builder Preferences			Caciulator Feedback:	
Anchor Bolts (Diameter)		1/2* -		
Framing Nails	3 1/4" x 0.120" (Si	td Strip/Coil) -		
Nood-based Braced Wall Panel Sheathing Nails	2 1/2" x 0.113" (Si	td Strip/Coil) -		
Wood-based Wall Sheathing (not in BWPs) Fasteners		1 1		
Sysum-based Braced Wall Panel Sheathing Pasteners	Same as BWP nails		Screws require minimum 3/4" embed into framing	
Nood-based Subfloor Sheathing Fasteners		1		
Wood-based Roof Sheathing Fasteners	Common/Spiral Nails			
	Ring Thread Nails			
General Construction Details Relating to Lateral Bracing Sys	tem			
	Screws		1	
Anchor Bolt Spacing based on Design Inputs and Builder Pre	aferi Staples (14g)			
Anchor Bolt Diameter:	County Contra			
Anchor Bolt Minimum Embed into Foundation:		0		
Maximum Spacing for Anchor Bolts not in Braced Wall Panel	s:*	8' on center	*See Report - Construction (Part 2) for Panel specific anchor bolt space	
Anchor bolts to be positioned within 12" of foundation wall co	mers, and within 12" of Panel e	adges		
ateral Bracing System Framing Nail Connections and Space	ng based on Design Inputs and	Builder Prefere	nces	
Fastener Type: 3 1/4" x 0.120" (Std Strip/Coil)				
			Spacing (in)	Number
Rim joist, trimmer joist or blocking - supporting walls with rec	uired braced wall panels - to s	ill plate or top wa	all plate – toe nail 4.125	
Blocking to stud or stud to wall plate (each end) toe nail				

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and the second se	mpliance and Construction		-			_
Sheet (R-4): Rep	ort - Construction (Part 1)			USER INPUT SHEETS:	1-1 1-2 1-3	I-4 R-4
Builder Preferences			T	Caclulator Feedback:		
Anchor Bolts (Diamete	er)	1/2*	-			
Framing Nails		3 1/4" x 0.120" (Std Strip/Coil)	-			
	Wall Panel Sheathing Nails	2 1/2" x 0.113" (Std Strip/Coil)				
Wood-based Wall She	eathing (not in BWPs) Fasteners	Same as BWP nails	-			
Gysum-based Braced	Wall Panel Sheathing Fasteners			Screws require minimum 3/4" er	nbed into framing	
Wood-based Subfloor	Sheathing Fasteners	Type W Drywall Screws	- 1			
Wood-based Roof Sh	eathing Fasteners					
		Ring Thread Nails	1			
General Construction	Details Relating to Lateral Bracing System	0	,			
Anchor Bolt Spacing t	pased on Design Inputs and Builder Prefere	inces				
Anchor Bolt Diameter	1		12"			
Anchor Bolt Minimum	Embed into Foundation:		4"			1000
Maximum Spacing for	Anchor Bolts not in Braced Wall Panels:*	8' on cen	nter	*See Report - Construction (Par	2) for Panel specific anchor	bolt spacing
Anchor bolts to be pos	sitioned within 12" of foundation wall corner	s, and within 12" of Panel edges	Ť			
Lateral Bracing System	m Framing Nail Connections and Spacing t	pased on Design Inputs and Builder Pre	ferer	nces		
Fastener Type:	3 1/4" x 0.120" (Std Strip/Coil)		-	1	2	
					Spacing (in)	Number
and the state of the family states	The second s	d braced wall panels - to sill plate or to	2.15	and the first strategy and	4,125	

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Part 9 Bracing Calculator		ESET SHEET	PINNT DASHBOARD	beta_1,0		
	heet (R-4): Report - Construction (Part 1)		1	USER INPUT SI	HEETS: I-1 I-2 I-3	1-4 R-4
Builder Preferences				Caclulator Feedback		
Anchor Bolts (Diamet	er)		1/2" -			
Framing Nails		3 1/4" x 0.120" (Std	Strip/Coil) -			
Wood-based Braced	Wall Panel Sheathing Nails	2 1/2" x 0.113" (Std	Strip/Coil) -			
Wood-based Wall Sh	eathing (not in BWPs) Fasteners	Same as	BWP nails -			
Gysum-based Braced	Wall Panel Sheathing Fasteners			Screws require minin	num 3/4" embed into framing	
Wood-based Subfloor	Sheathing Fasteners	Type W Drywall Screws				
Wood-based Roof Sh	eathing Fasteners					
		Ring Thread Nails				
General Construction	Details Relating to Lateral Bracing System		0			
Anchor Bolt Spacing I	based on Design Inputs and Builder Prefere	inces				
Anchor Bolt Diameter	1		1/2"	1		
Anchor Bolt Minimum	Embed into Foundation:	1	4"			1.17
Maximum Spacing for	Anchor Bolts not in Braced Wall Panels:*		8' on center	*See Report - Construction (Part 2) for Panel specific anchor bolt spacing		
Anchor bolts to be po	sitioned within 12" of foundation wall come	rs, and within 12" of Panel ed	ges			
Lateral Bracing Syste	m Framing Nail Connections and Spacing I	pased on Design Inputs and E	Builder Preferen	nces		
Fastener Type:	3 1/4" x 0.120" (Std Strip/Coil)					
					Spacing (in)	Number
Rim joist, trimmer jois	t or blocking - supporting walls with require	d braced wall panels - to sill	plate or top wa	all plate - toe nail	4.125	
Blocking to stud or st	ud to wall plate (each end) toe nail		Contraction Contractor			

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For Design, Compliance and Construction

Sheet (R-4): Report - Construction (Part 1)

USER INPUT SHEETS:

Builder Preferences			Caciulator Feedback:		
Anchor Bolts (Diamet	er)	1/2* -			
Framing Nails		3 1/4" x 0.120" (Std Strip/Coll) -	1		
Wood-based Braced	Wall Panel Sheathing Nails	2 1/2" x 0.113" (Std Strip/Coil) -			
Wood-based Wall Sh	eathing (not in BWPs) Fasteners	Same as BWP nails -			
Gysum-based Braced	Wall Panel Sheathing Fasteners	Type W Drywall Screws -	Screws require minimur	n 3/4" embed into framing	
Wood-based Subfloor	r Sheathing Fasteners	1			
Wood-based Roof Sh	eathing Fasteners	Same as BWP nails	1		
General Construction	Details Relating to Lateral Bracing System	Common/Spiral Nails			
Anchor Bolt Spacing	based on Design Inputs and Builder Preference				
Anchor Bolt Diameter		Screws			
Anchor Bolt Minimum	Embed into Foundation:	Staples (14g)	1		
Maximum Spacing for	Anchor Bolts not in Braced Wall Panels:*		*See Report - Construction (Part 2) for Panel specific anchor bolt space		
Anchor bolts to be po	sitioned within 12" of foundation wall corne	/			
Lateral Bracing Syste	m Framing Nail Connections and Spacing b	ased on Design Inputs and Builder Prefere	nces		
Fastener Type:	3 1/4" x 0.120" (Std Strip/Coil)	the second s			
				Spacing (in)	Number
Rim joist, trimmer jois	t or blocking - supporting walls with require	d braced wall panels - to sill plate or top wa	all plate - toe nail	4,125	
Placking to stud or st	ud to wall plate (each end) toe nail				

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For Design, Compliance and Construction

Sheet (R-4): Report - Construction (Part 1)

USER INPUT SHEETS:

Builder Preferences			Caciulator Feedback:		
Anchor Bolts (Diamet	ter)	1/2* -			
Framing Nails		3 1/4" x 0.120" (Std Strip/Coll) -			
Wood-based Braced	Wall Panel Sheathing Nails	2 1/2" x 0.113" (Std Strip/Coil) -			
Wood-based Wall Sh	eathing (not in BWPs) Fasteners	Same as BWP nails -			
Gysum-based Braced	t Wall Panel Sheathing Fasteners	Type W Drywall Screws -	Screws require minimum	3/4" embed into framing	
Wood-based Subfloo	r Sheathing Fasteners				
Wood-based Roof Si	reathing Fasteners	Same as BWP nails			
General Construction	Details Relating to Lateral Bracing System	Common/Spiral Nails			
Anchor Bolt Spacing	based on Design Inputs and Builder Prefere	Ring Thread Nails			
Anchor Bolt Diameter		Screws			
Anchor Bolt Minimum	Embed into Foundation:	Staples (14g)		A 375 - 1877 - 1	
Maximum Spacing fo	r Anchor Bolts not in Braced Wall Panels:*		*See Report - Construction (Part 2) for Panel specific anchor bolt spacing		
Anchor bolts to be po	sitioned within 12" of foundation wall corne	0			
Lateral Bracing Syste	m Framing Nail Connections and Spacing b	ased on Design Inputs and Builder Prefere	nces		
Fastener Type:	3 1/4" x 0.120" (Std Strip/Coil)				
				Spacing (in)	Number
Rim joist, trimmer jois	st or blocking - supporting walls with require	d braced wall panels - to sill plate or top wa	all plate - toe nail	4,125	
Disables is stud as at	ud to wall plate (each end) toe nail				

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For Design, Compliance and Construction

Sheet (R-4): Report - Construction (Part 1)

USER INPUT SHEETS:

Builder Preferences			Caclulator Feedback:		
Anchor Bolts (Diameter)		1/2* +			
Framing Nails		3 1/4" x 0.120" (Std Strip/Coil) -			
Wood-based Braced Wall Pane	el Sheathing Nails	2 1/2" x 0.113" (Std Strip/Coil) -			
Wood-based Wall Sheathing (r	ot in BWPs) Fasteners	Same as BWP nails 👻			
Gysum-based Braced Wall Par	nel Sheathing Fasteners	Type W Drywall Screws -	Screws require minimum 3/4" embed into	raming	
Wood-based Subfloor Sheathin	ng Fasteners	Same as BWP nails 👻			
Wood-based Roof Sheathing F	asteners				
Anchor Bolt Spacing based on Anchor Bolt Diameter: Anchor Bolt Minimum Embed Maximum Spacing for Anchor I	telating to Lateral Bracing System Design Inputs and Builder Preferent Into Foundation: Bolts not in Braced Wall Panels:* within 12" of foundation wall come	Same as BWP nails Common/Spiral Nails Ring Thread Nails Screws Staples (14g)	*See Report - Construction (Part 2) for P	anel specific ancho	or bolt spacing
		1			
Lateral Bracing System Framin	g Nail Connections and Spacing b	ased on Design Inputs and Builder Prefere	nces		
Fastener Type: 3	1/4" x 0.120" (Std Strip/Coil)				
			Γ	Spacing (in)	Number
Rim joist, trimmer joist or block	ing - supporting walls with required	d braced wall panels - to sill plate or top w	all plate – toe nail	4.125	
Blocking to stud or stud to wall	plate (each end) toe nail				

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For Design, Compliance and Construction

Sheet (R-4): Report - Construction (Part 1)

USER INPUT SHEETS:

Builder Preferences			Caclulator Feedback:		
Anchor Bolts (Diame	ter)	1/2** +			
Framing Nails		3 1/4" x 0.120" (Std Strip/Coil) -			
Wood-based Braced	Wall Panel Sheathing Nails	2 1/2" x 0.113" (Std Strip/Coil) +			
Wood-based Wall Sh	neathing (not in BWPs) Fasteners	Same as BWP nails -			
Gysum-based Brace	d Wall Panel Sheathing Fasteners	Type W Drywall Screws -	Screws require minimum 3/4" embe	ed into framing	
Wood-based Subfloo	or Sheathing Easteners	Same as BWP nails 👻			
Wood-based Roof S	heathing Fasteners				
Anchor Bolt Spacing Anchor Bolt Diamete	n Details Relating to Lateral Bracing System based on Design Inputs and Builder Prefer r: n Embed into Foundation:	Same as BWP nails Common/Spiral Nails Ring Thread Nails Screws			
Maximum Spacing fo	or Anchor Bolts not in Braced Wall Panels:*	Staples (14g)	*See Report - Construction (Part 2)	for Panel specific ancho	r bolt spacing
Anchor bolts to be p	ositioned within 12" of foundation wall come	1			
Lateral Bracing System	em Framing Nail Connections and Spacing b	ased on Design Inputs and Builder Prefere	nces		
Fastener Type:	3 1/4" x 0.120" (Std Strip/Coil)				
				Spacing (in)	Number
Rim joist, trimmer joi	st or blocking - supporting walls with require	d braced wall panels - to sill plate or top wa	all plate - toe nail	4.125	
Placking to stud as a	tud to wall plate (each end) toe nail				

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For Design, Compliance and Construction

Sheet (R-4): Report - Construction (Part 1)

USER INPUT SHEETS:

Builder Preferences		Caciulator Feedback:
Anchor Bolts (Diameter)	1/2" -	
Framing Nails	3 1/4" x 0.120" (Std Strip/Coil) -	
Wood-based Braced Wall Panel Sheathing Nails	2 1/2" x 0.113" (Std Strip/Coil) -	
Wood-based Wall Sheathing (not in BWPs) Fasteners	Same as BWP nails -	
Gysum-based Braced Wall Panel Sheathing Fasteners	Type W Drywall Screws -	Screws require minimum 3/4" embed into framing
Wood-based Subfloor Sheathing Fasteners	Same as BWP nails	
Wood-based Roof Sheathing Fasteners	Same as BWP nails -	

General Construction Details Relating to Lateral Bracing System

Anchor Bolt Spacing based on Design Inputs and Builder Preferences		
Anchor Bolt Diameter:	1/2"	
Anchor Bolt Minimum Embed into Foundation:	4"	
Maximum Spacing for Anchor Bolts not in Braced Wall Panels:*	8' on center	*See Report - Construction (Part 2) for Panel specific anchor bolt spacing

Anchor bolts to be positioned within 12" of foundation wall corners, and within 12" of Panel edges

3 1/4" x 0.120" (Std Strip/Coil)

Lateral Bracing System Framing Nail Connections and Spacing based on Design Inputs and Builder Preferences

Fastener Type:

	Spacing (in)	Number
Rim joist, trimmer joist or blocking - supporting walls with required braced wall panels - to sill plate or top wall plate - toe nail	4.125	
Blocking to stud or stud to wall plate (each end) toe nail		5

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For Design, Compliance and Construction

Sheet (R-4): Report - Construction (Part 1)

USER INPUT SHEETS:

Builder Preferences		Caciulator Feedback:
Anchor Bolts (Diameter)	1/2" -	
Framing Nails	3 1/4" x 0.120" (Std Strip/Coil) -	
Wood-based Braced Wall Panel Sheathing Nails	2 1/2" x 0.113" (Std Strip/Coil) -	
Wood-based Wall Sheathing (not in BWPs) Fasteners	Same as BWP nails +	
Gysum-based Braced Wall Panel Sheathing Fasteners	Type W Drywall Screws -	Screws require minimum 3/4" embed into framing
Wood-based Subfloor Sheathing Fasteners	Same as BWP nails -	
Wood-based Roof Sheathing Fasteners	Same as BWP nails -	

Anchor Bolt Spacing based on Design Inputs and Builder Preferences		
Anchor Bolt Diameter:	1/2"	
Anchor Bolt Minimum Embed into Foundation:	4"	
Maximum Spacing for Anchor Bolts not in Braced Wall Panels:*	8' on center	*See Report - Construction (Part 2) for Panel specific anchor bolt spacing

Anchor bolts to be positioned within 12" of foundation wall corners, and within 12" of Panel edges

3 1/4" x 0.120" (Std Strip/Coil)

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Lateral Bracing System Framing Nail Connections and Spacing based on Design Inputs and Builder Preferences

Fastener Type:

 Spacing (in)

 Rim joist, trimmer joist or blocking – supporting walls with required braced wall panels – to sill plate or top wall plate – toe nail
 4.125

 Blocking to stud or stud to wall plate (each end) toe nail
 4.125

🔒 (R-4a) Construction (Part 2) 🔹

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Sheet (R-4): Report - Construction (Part 1)		USER INPUT SHEE	TC. III III	1-4 R-
		USER INPOT SHEE		
Builder Preferences		Caclulator Feedback:		
Anchor Bolts (Diameter)	1/2* -			
Framing Nails	3 1/4" x 0.144" (Common) -	1		
Wood-based Braced Wall Panel Sheathing Nails	2 1/2" x 0.113" (Std Strip/Coil) -			
Wood-based Wall Sheathing (not in BWPs) Fasteners	Same as BWP nails -			
Gysum-based Braced Wall Panel Sheathing Fasteners	Type W Drywall Screws -	Screws require minimum	3/4" embed into framing	
Nood-based Subfloor Sheathing Fasteners	Same as BWP nails -			
Wood-based Roof Sheathing Fasteners	Same as BWP nails =			
General Construction Details Relating to Lateral Bracing System Anchor Bolt Spacing based on Design Inputs and Builder Prefer				
Anchor Bolt Diameter:	1/2"			
Anchor Bolt Minimum Embed into Foundation:	4"			
Maximum Spacing for Anchor Bolts not in Braced Wall Panels:*	in Braced Wall Panels.* 8' on center *See Report - Construction (Part 2) for Panel specific anchor be		bolt spacin	
Anchor bolts to be positioned within 12" of foundation wall come	rs, and within 12" of Panel edges			
	based on Design Inputs and Builder Prefere	nces		
ateral Bracing System Framing Nail Connections and Spacing	based on Design Inputs and Builder Prefere	nces	1	
Lateral Bracing System Framing Nail Connections and Spacing	based on Design Inputs and Builder Prefere	nces	Spacing (in)	Number

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Sheet (R-4): Report	rt - Construction (Part 1)		USER INP	UT SHEETS: I-1 I-2 I-3	1-4 R-4
Builder Preferences			Caclulator Fe	edback:	_
Anchor Bolts (Diameter)).	1/2* -	-		
Framing Nails		3 1/4" x 0.144" (Common)	-		
Wood-based Braced Wa	all Panel Sheathing Nails	2 1/2" x 0.113" (Std Strip/Coil)			
Wood-based Wall Shea	thing (not in BWPs) Fasteners	Same as BWP nails			
Gysum-based Braced V	Vall Panel Sheathing Fasteners	Type W Drywall Screws	 Screws requir 	re minimum 3/4" embed into framing	
Wood-based Subfloor S	Sheathing Fasteners	Same as BWP nails	-		
Wood-based Roof Shea	athing Fasteners	Same as BWP nails			
General Construction D	etails Relating to Lateral Bracing System				
Anchor Bolt Spacing ba	sed on Design Inputs and Builder Prefere	nces			
Anchor Bolt Diameter:		1/2	2"		
Anchor Bolt Minimum E	mbed into Foundation:		4"		
Maximum Spacing for A	Anchor Bolts not in Braced Wall Panels.*	8' on cente	ar See Report -	Construction (Part 2) for Panel specific anche	or bolt spacing
Anchor bolts to be posit	ioned within 12" of foundation wall comer	s, and within 12" of Panel edges			
Lateral Bracing System	Framing Nail Connections and Spacing b	ased on Design Inputs and Builder Prefe	rences		
Fastener Type:	3 1/4" x 0.144" (Common)				
asterter type.				Spacing (in)	Number
asterier type.					the product of the second

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o uncenterr ore report - construction (rait 2) for name specific anchor out spacing

Anchor bolts to be positioned within 12" of foundation wall corners, and within 12" of Panel edges

Lateral Bracing System Framing Nati Connections and Spacing based on Design Inputs and Builder Preferences

Fastener Type:	3 1/4" x 0.120" (Std Strip/Coil)			
			Spacing (in)	Number
Rim joist, trimmer jois	st or blocking - supporting walls with required braced wall panels - to s	ill plate or top wall plate - toe nail	4.125	
Blocking to stud or stu	ud to wall plate (each end) toe nail	Constant of the second s		5
Blocking to stud or stu	ud to wall plate (each end) end nail			63
Doubled studs at ope	nings, within walls, or abutting studs at wall intersections and corners	- in required braced wall panels	8.250	
Doubled top wall plate	es (see below for joints in braced wall bands)		16,375	
Bottom wall plate or s	sole plate to floor joists, rim joists or blocking (exterior walls) (3)		10.875	
Bottom wall plate or s	ole plate - in required braced wall panels - to floor joists, rim joists or	blocking (exterior walls) (3)	4.125	
Interior walls to framin	ng or subflooring		16.375	
Required braced wall	panels - in interior walls - to framing above and below		4.125	
Roof rafter, roof truss	or roof joist to plate - toe nail			5
End-joist or end-rafter	r to built-up wall stud			8
End-joist or end-rafter	r to built-up wall stud (for roof of heavy construction)			12
Subfloor Sheathing F	asteners based on Design Inputs and Builder Preferences			_
Fastener Type:	2 1/2" x 0.113" (Std Strip/Coil)	1	Maximum Sp	acing (in)
		Minimum Length	Edges	Field
For wood-based subf	loor sheathing panels greater than 3/8" and up to 3/4"	#N/A	6.000	12.000
For wood-based subf	loor sheathing panels greater than 3/4" and up to 1"	#N/A	6.000	12.000
Wall Sheathing Faste	ners for Sheathing not in a Braced Wall Panel based on Design Inputs	and Builder Preferences		
Fastener Type:	2 1/2" x 0.113" (Std Strip/Coil)		Maximum Sp	acing (in)
		Minimum Length	Edges	Field
For wood-based wall	sheathing panels panels 3/8" or less	#N/A	6.000	12.000
For wood-based wall	sheathing panels panels greater than 3/8" and up to 3/4"	#N/A	6.000	12.000
	sheathing panels greater than 3/4" and up to 1"	#N/A	6.000	12.000

Bottom wail plate or sole plate to floor joists, rim joists or blocking (exterior wails) (3)	10.8/5	1
Bottom wall plate or sole plate - in required braced wall panels - to floor joists, rim joists or blocking (exterior walls) (3)	4.125	
Interior walls to framing or subflooring	16.375	
Required braced wall panels – in interior walls – to framing above and below	4.125	
Roof rafter, roof truss or roof joist to plate - toe nail		5
End-joist or end-rafter to built-up wall stud		8
End-joist or end-rafter to built-up wall stud (for roof of heavy construction)		12

Fastener Type.	2 1/2" x 0.113" (Std Strip/Coil)	Minimum Length	Maximum Spacing (in)	
			Edges	Field
For wood-based subf	loor sheathing panels greater than 3/8" and up to 3/4"	#N/A.	6.000	12.000
For wood-based subf	loor sheathing panels greater than 3/4" and up to 1"	:#N/A.	6.000	12.000

Fastener Type:	2 1/2" x 0.113" (Std Strip/Coil)	1000001000	Maximum Spa	um Spacing (in)	
		Minimum Length	Edges	Field	
For wood-based wall	sheathing panels panels 3/8" or less	#N/A	6.000	12.000	
For wood-based wall	sheathing panels panels greater than 3/8" and up to 3/4"	:#N/A	6.000	12.000	
For wood-based wall	sheathing panels greater than 3/4" and up to 1"	#N/A	6.000	12.000	

TOGGLE FILTER

Alt.) -

Fastener Type:	2 1/2" x 0.113" (Std Strip/Coil)	A Province of the second	Maximum Spacing (in)	
		Minimum Length	Edges	Field
For wood-based roof	sheathing panels greater than 3/8" and up to 3/4"	#N/A	4.625	9.375
For wood-based roof	sheathing panels greater than 3/4" and up to 1"	#N/A.	4.625	9.375

| Permit/File Number: BP_9999999 | Calculations completed by: Tim Warner - twarner@boabc.org |

<End of Sheet (R-4) Construction (Part 1)>

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🔓 (R-6) Dbl

Bottom wail plate or sole plate to floor joists, rim joists or blocking (exterior wails) (3)	10.8/5	
Bottom wall plate or sole plate - in required braced wall panels - to floor joists, rim joists or blocking (exterior walls) (3)	4.125	
Interior walls to framing or subflooring	16.375	
Required braced wall panels – in interior walls – to framing above and below	4.125	
Roof rafter, roof truss or roof joist to plate - toe nail		5
End-joist or end-rafter to built-up wall stud		8
End-joist or end-rafter to built-up wall stud (for roof of heavy construction)		12

Fastener Type.	2 1/2" x 0.113" (Std Strip/Coil)	Minimum Length	Maximum Spacing (in)	
			Edges	Field
For wood-based subf	foor sheathing panels greater than 3/8" and up to 3/4*	#N/A.	6.000	12.000
For wood-based subf	foor sheathing panels greater than 3/4" and up to 1"	:#N/A.	6.000	12.000

Fastener Type:	2 1/2" x 0.113" (Std Strip/Coil)	1000001000	Maximum Spacing (in)	
		Minimum Length	Edges	Field
For wood-based wall	sheathing panels panels 3/8" or less	#N/A	6.000	
For wood-based wall sheathing panels panels greater than 3/8" and up to 3/4"		:#N/A	6.000	12.000
For wood-based wall sheathing panels greater than 3/4" and up to 1"		#N/A	6.000	12.000

TOGGLE FILTER

Alt.) =

Fastener Type.	2 1/2" x 0.113" (Std Strip/Coil)	Minimum Length	Maximum Spacing (in)	
			Edges	Field
For wood-based roof sheathing panels greater than 3/8" and up to 3/4"		#N/A	4.625	9.375
For wood-based roof sheathing panels greater than 3/4" and up to 1"		#N/A	4.625	9.375

| Permit/File Number: BP_9999999 | Calculations completed by: Tim Warner - twarner@boabc.org |

<End of Sheet (R-4) Construction (Part 1)>

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TOGGLE FILTER

For Design, Compliance and Construction

Sheet (R-4b): Report - Construction (Part 2)

Builder Preferences		Calculator Feedback:		
Anchor Bolts (Diameter)	1/2"			
Framing Nails	3 1/4" x 0.120" (Std Strip/Coil)	Framing hails to extend minimum 1/2 length into second member. Space nails to avoid splitting.		
Wood-based BWP Sheathing Nails	2 1/2" x 0.113" (Std Strip/Coil)			
Wood-based Wall Sheathing (not in BWPs) Fasteners	Same as BWP nails			
Gysum-based BWP Sheathing Fasteners*	Type W Drywall Screws	1		
Wood-based Subfloor Sheathing Fasteners	Same as BWP nails			
Wood-based Roof Sheathing Fasteners	Same as BWP nails			

		Band Information	6	Anchor	r Bolts	Framing				Primary Bracing Sheathing					Secondary Brac
Band ID		Reference	Sheathing	Max. Spacing	Min. #	Max. Stud	Double Top Pla	Double Top Plate Nailing		Minimum Sheathing	Horiz	Fastener Type	Spacing		Reference
Dank	10	Framing Type	Continuity	in BWP	BWP	Spacing	Min. Plate Lap	Min. Nails Each Side	to Roof Framing	Winimum Snearning	Blocking	Pastener Type	Edgos	Field	Framing Type
R	1	WSP-A	Continuous	4'7"	2	16	2 stud spaces	18		3/8" wood-based panel	-	2 1/2" x 0.113" (Std Strip/Coil)	6.000	12.000	GWB-O
5	2	WSP-A	Continuous	4'7"	2	16	2 stud spaces	18		3/8* wood-based panel		2 1/2" x 0.113" (Std Strip/Coil)	6.000	12.000	GWB-O
R	A	WSP-A	Continuous	4'7"	2	16	1 stud space	9	1 ····	3/8" wood-based panel	÷	2 1/2" x 0.113" (Std Strip/Coil)	6.000	12.000	GWB-O
R	B	WSP-A	Continuous	4'7"	2	16	1 stud space	9		3/8" wood-based panel		2 1/2" x 0.113" (Std Strip/Coll)	6.000	12.000	GWB-O

| Permit/File Number: BP_9999999 | Calculations completed by: Tim Warner - twarner@boabc.org |

<End of Sheet (R-4a) Constructino (Part 2)>

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-	R-4b): Report -	of any other states and the states of the st	and the second second	aon		-		_		-			_						
Builder P	references							ŕ	Calculator Feedback:				-						
	olts (Diameter)							1/2"											
raming		1000					4" x 0.120" (S		raming nails to extend minimum	1/2 length in	to second member. Space nails to a	ivoid splitti	ng.						
1.00 0.000	sed BWP Sheathing sed Wall Sheathing		tonere			2.1/.	2" x 0.113" (S	as BWP nails											
	ased BWP Sheathing		aprilia a				and the second se	ywall Screws							_				
	sed Subfloor Sheat							as BWP nails											
lood-ba	sed Roof Sheathing	Fasteners	_	_			Same a	as BWP nails											
and Sp	cific Construction E	etails based on B	uilder Prefer	rences									-						
	Band Informat	ion	Anchor	r Bolts	Framing				rimary Bracing Sheathing					Secondary Br	acing				
Band	D Reference Framing Typ	Sheathing Continuity	Max. Spacing in BWP	Min. # per BWP	Max. Stud Spacing	Double Top Pla	te Nailing Min. Nails	Bracing Extending to Roof	Minimum Sheathing	Horiz Blocking	Fastener Type		acing	Reference Framing Type					
- 1			11 Aug. 14			Min. Plate Lap	Each Side	Framing				Edgos							
R	1 WSP-A 2 WSP-A	Continuous	4'7" 4'7"	2	-	2 stud spaces 2 stud spaces	18		3/8" wood-based panel 3/8" wood-based panel		2 1/2" x 0.113" (Std Strip/Coil) 2 1/2" x 0.113" (Std Strip/Coil)	6.000	12.000	GWB-O GWB-O					
	A WSP-A	Continuous	4'7"	2		1 stud space	9		3/8" wood-based panel	-	2 1/2" x 0.113" (Std Strip/Coil)	6.000	12.000	GWB-Q					
R	B WSP-A	Continuous	4.7	2	16	1 stud space	9		3/8" wood-based panel	1 4	2 1/2" x 0.113" (Std Strip/Coil)	6.000	12.000	GWB-O					
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For Design, Compliance and Construction

Sheet (R-4): Report - Construction (Part 1)

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Builder Preferences	Caciulator Feedback:	
Anchor Bolts (Diameter)	1/2* -	
Framing Nails	3 1/4" x 0.120" (Std Strip/Coil) -	
Wood-based Braced Wall Panel Sheathing Nails	2 1/2" x 0.113" (Std Strip/Coil) -	
Wood-based Wall Sheathing (not in BWPs) Fasteners	Same as BWP nails +	
Gysum-based Braced Wall Panel Sheathing Fasteners	Type W Drywall Screws -	Screws require minimum 3/4" embed into framing
Wood-based Subfloor Sheathing Fasteners	Same as BWP nails -	
Wood-based Roof Sheathing Fasteners	Same as BWP nails -	

General Construction Details Relating to Lateral Bracing System

Anchor Bolt Spacing based on Design Inputs and Builder Preferences		
Anchor Bolt Diameter:	1/2"	
Anchor Bolt Minimum Embed into Foundation:	4"	
Maximum Spacing for Anchor Bolts not in Braced Wall Panels:*	8' on center	*See Report - Construction (Part 2) for Panel specific anchor bolt spacing

Anchor bolts to be positioned within 12" of foundation wall corners, and within 12" of Panel edges

3 1/4" x 0.120" (Std Strip/Coil)

Lateral Bracing System Framing Nail Connections and Spacing based on Design Inputs and Builder Preferences

Fastener Type:

	Spacing (in)	Number
Rim joist, trimmer joist or blocking - supporting walls with required braced wall panels - to sill plate or top wall plate - toe nail	4.125	
Blocking to stud or stud to wall plate (each end) toe nail		

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🚍 Alt.) - 🔒 (R-4) Construction (Part 1) - 🔒 (R-4

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 Scroll to bottom of page and click "PRINT PDF PACKAGE". A downloadable package will be created based on

your selections.

Select All sheets for printing

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(M-2) Compliance Matrix

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(R-4a) Construction (Part 2)	Table of construction	
(R+6) Comparison	Comparison analys	sis of Calculation Methods
R 6) Ebi Top Plates Nalling	Demonstration of t	op plate nailing calculations
M (I-1) General		
M-2 (I-2) Bands		athways and trigger points
(D-1		(TION)
_{Арр} а (I-3) Design & Fee	dback	
(I-4) Length Comp	liance	n climate data
(R-1) Unadjusted	anothe Color	ation of climate and seismic data for locations not listed in BCBC Appendix C.
A 2		input and BCBC appendix formulas
всв (R-2) Adjusted Lei	ngths (Tables)	
(R-3) Adjusted Lei	ngths (Alt.)	bles used in calculations
		Hes used in calculations
(R-4) Construction	(Part I)	<end index="" of="" sheet=""></end>
(R-4a) Construction	on (Part 2)	

RESET SHEET

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1-3

1-4

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R-4

R-6) Dbl

For Design, Compliance and Construction

Sheet (R-4): Report - Construction (Part 1)

USER INPUT SHEETS: I-1 I-2

Builder Preferences	Caciulator Feedback:	
Anchor Bolts (Diameter)	1/2* -	
Framing Nails	3 1/4" x 0.120" (Std Strip/Coil) -	
Wood-based Braced Wall Panel Sheathing Nails	2 1/2" x 0.113" (Std Strip/Coil) -	
Wood-based Wall Sheathing (not in BWPs) Fasteners	Same as BWP nails +	
Gysum-based Braced Wall Panel Sheathing Fasteners	Type W Drywall Screws -	Screws require minimum 3/4" embed into framing
Wood-based Subfloor Sheathing Fasteners	Same as BWP nails -	
Wood-based Roof Sheathing Fasteners	Same as BWP nails -	
Vood-based Roof Sheathing Fasteners General Construction Details Relating to Lateral Bracing System		
Anchor Bolt Spacing based on Design Inputs and Builder Prefer	ences	
Anchor Bolt Diameter:	1/2"	

Anchor Bolt Minimum Embed into Foundation: Maximum Spacing for Anchor Bolts not in Braced Wall Panels:*

3 1/4" x 0.120" (Std Strip/Coil)

Anchor bolts to be positioned within 12" of foundation wall corners, and within 12" of Panel edges

Lateral Bracing System Framing Nail Connections and Spacing based on Design Inputs and Builder Preferences

Fastener Type:

	Spacing (in)	Number
Rim joist, trimmer joist or blocking - supporting walls with required braced wall panels - to sill plate or top wall plate - toe nail	4.125	
Blocking to stud or stud to wall plate (each end) toe nail		5

+ =

Alt.) - 🔒 (R-4) Construction (Part 1) - 🔒 (R-

🔒 (R-4a) Construction (Part 2) 🔹

4"

8' on center

*See Report - Construction (Part 2) for Panel specific anchor bolt spacing

Custom Climate and Seismic Data

Part 9 Bracing Cal	Culator RESE	T SHEET	RESET CALCULATO	beta_1.041
For Design, Compliance and Construction	n			
Sheet (I-1): Inputs - General				USER INPUT SHEETS: I-1 I-2 I-3 I-4 R-4
Administrative Information				Calculator Feedback:
Address				
Permit/File/Reference Number	BP_9999999			1
Calculations Completed by (Name)	Tim Warner			16
Calculations Completed by (Contact Information)	twarner@boabc.org			
Site and Environmental Conditions			- D	
Site Design Location (see hover note)	1			Click here to enter <custom location=""> olimate and asiamic data</custom>
Site Class	<custom location=""></custom>			
Site Exposure				
Specified Snow Load (kPa)	100 Mile House			
HWP (1/50)	Abbotsford			
HWP Range Identifier				
Smax	Agassiz			
Smax Range Identifier	Alberni			
Design Parameters - Overall Building	Ashcroft			
Weight of Construction	Bamfield			All Braced Storeys are Normal Weight Construction
Sheathing Continuity				All Bands in all Braced Storeys are Continuously Sheathed
Number of wood-framed floors?	Beatton River			
Foundation Type	Bella Bella			
Describe exterior walls supporting lowest wood-framed floor:	Bella Coola			
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?	Burns Lake			
😑 🔒 Legal 🔹 🔒 Index 🔹 🔒 Pri	Cache Creek Campbell River			sign & Feedback - 🖌 👌 🔻 9 of 33 rows

Part 9 Bracing Cal	culator	RESET SHEET	RESET CALCULATOR	beta_1.041
For Design, Compliance and Construction	on			
Sheet (I-1): Inputs - General				USER INPUT SHEETS: I-1 I-2 I-3 I-4 R-4
Administrative Information				Calculator Feedback:
Address				
Permit/File/Reference Number	BP_9999999			
Calculations Completed by (Name)	Tim Warner			
Calculations Completed by (Contact Information)	twarner@boabc.org			
Site and Environmental Conditions			(
Site Design Location (see hover note)				Click here to enter <custom location=""> elimate and aviamic data</custom>
Site Class	<custom location=""></custom>			
Site Exposure				
Specified Snow Load (kPa)	100 Mile House			
HWP (1/50)	Abbotsford			
HWP Range Identifier				
Smax	Agassiz			
Smax Range Identifier	Alberni			
Design Parameters - Overall Building	- Ashcroft		1	
Weight of Construction	Bamfield		1	All Braced Storeys are Normal Weight Construction
Sheathing Continuity				All Bands in all Braced Storeys are Continuously Sheathed
Number of wood-framed floors?	 Beatton River 		1	
Foundation Type	Bella Bella			
Describe exterior walls supporting lowest wood-framed floor:	Bella Coola			
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?	Burns Lake			
supporting inwest wood-inamed inon :	- Cache Creek			l
😑 🔒 Legal + 🔒 Index + 🔒 Pri	Campbell River			sign & Feedback - 🖌 < 🔉 🔻 9 of 33 rov

Part 9 Bracing Ca	ICUIATOF RESET SHEET RESET CALCULATO	beta_1.041
For Design, Compliance and Construct	ion	
Sheet (I-1): Inputs - General		USER INPUT SHEETS: I-1 I-2 I-3 I-4 R-4
Administrative Information		Calculator Feedback:
Address		
Permit/File/Reference Number	BP_9999999	
Calculations Completed by (Name)	Tim Warner	
Calculations Completed by (Contact Information)	(warner@boahc.org	
Site and Environmental Conditions		
Site Design Location (see hover note)	<custom location=""> -</custom>	Click here to enter <custom location=""> climate and seismic date</custom>
Site Class	Unknown	1
Site Exposure	Rough Terrain *	
Specified Snow Load (kPa)	1.000	Roof width assumed to be >4.3m.
HWP (1/50)		
HWP Range Identifier	HWP ≤ 0.3	
Smax		
Smax Range Identifier	Smax ≤ 0.2	
Design Parameters - Overall Building		
Weight of Construction	Normal Weight Construction -	All Braced Storeys are Normal Weight Construction
Sheathing Continuity	Continuous	All Bands in all Braced Storeys are Continuously Sheathed
Number of wood-framed floors?	0	
Foundation Type	Slab-on-Grade	
Describe exterior walls supporting lowest wood-framed floor:		
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?		

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🔒 Print Dashboard 👻 🔒 (I-1) General 👻

🔒 (1-2) Bands 👻 🔒 (1-3) Design & Feedback 🖛

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Part 9 Bracing C		beta_1.041
For Design, Compliance and Constru	uction	
Sheet (I-1): Inputs - General		USER INPUT SHEETS: 1-1 1-2 1-3 1-4 R-4
Administrative Information		Calculator Feedback:
Administrative mornation		Calculator resolution.
Permit/File/Reference Number	BP_9999999	
Calculations Completed by (Name)	Tim Warner	
Calculations Completed by (Contact Information)	(warnut@boabc.org	
Site and Environmental Conditions		
Site Design Location (see hover note)	<custom location=""></custom>	Glick here to enter <custom location=""> climate and seismic data</custom>
Site Class	Unknown	
Site Exposure	Rough Terrain	
Specified Snow Load (kPa)	1.000	Roof width assumed to be >4.3m.
HWP (1/50)		
HWP Range Identifier	HWP ≤ 0.3	
Smax		
Smax Range Identifier	Smax ≤ 0.2	
Design Parameters - Overall Building	Normal Weight Construction	All Second Streets are Manual Walacht Construction
Weight of Construction		All Braced Storeys are Normal Weight Construction
Sheathing Continuity Number of wood-framed floors?	Continuous	All Bands in all Braced Storeys are Continuously Sheathed
Foundation Type	Slab-on-Grade	
Foundation Type	Siab-on-Grade	
Describe exterior walls supporting lowest wood-framed fi	loor:	
Maximum height of exterior and interior wood-framed wa supporting lowest wood-framed floor?	alls	-

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For Design, Compliance and Construction

Sheet (A-1): Custom Climate and Seismic Inputs

NOTE: In some regions, AHJs may be providing code users with climate and seismic data that differ from the BCBC Appendix C values. If so, these values can be entered on this tab directly.

If you are developing in a location that is not listed in the BCBC Appendix C, and the AHJ does not provide you with design data, click thorough to the GENERATE DESIGN VALUES link below.

				Custom Climate and Seis	mic Data						
	Sr	now Loads	Specifed Snow	/ Load (kPa)	HWP			Site Clas	s - Smax		
Location	Ss	Sr	Roof width <= 4.3m	Roof width > 4.3m	(1/50)	Unknown	A	В	С	D	E
Custom Location>			0.000	1.000							
Return to Part	9 Bracing	Calculator						GEN	ERATE DI	ESIGN VAL	LUES
		0	Permit/File Number: BP_9999	999 Calculations complet	ed by: Tim	Warner - twarne	r@boabc.or	g			
				<end (a-1)="" custor<="" of="" sheet="" td=""><td>n Climate></td><td></td><td></td><td></td><td></td><td></td><td></td></end>	n Climate>						
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For Design, Compliance and Construction

Sheet (A-1): Custom Climate and Seismic Inputs

NOTE: In some regions, AHJs may be providing code users with climate and seismic data that differ from the BCBC Appendix C values. If so, these values can be entered on this tab directly.

If you are developing in a location that is not listed in the BCBC Appendix C, and the AHJ does not provide you with design data, click thorough to the GENERATE DESIGN VALUES link below.

				Custom Climate and Sei	smic Data								
	Sn	ow Loads	Specifed Snow	Load (kPa)	HWP			Site C	lass - Smax				
Location	Ss	Sr	Roof width <= 4.3m	Roof width > 4.3m	(1/50)	Unknown	A	В	С	D	E		
Custom Location>			0.000	1.000									
Return to Part 9	Bracing (Calculator						GE	NERATE D	ESIGN VA	LUES		
		1	Permit/File Number: BP_9999	999 Calculations comple	ted by: Tim	Warner - twarne	er@boabc.org		(A-2) C2 8	C3 Gener	ator	۵	0
				End of Sheet (A-1) Custo	m Climate>							1	
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												-11	
											-		
												-11	
							_						
		-										-11	
												-11	

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For Design, Compliance and Construction

Sheet (A-1): Custom Climate and Seismic Inputs

NOTE: In some regions, AHJs may be providing code users with climate and seismic data that differ from the BCBC Appendix C values. If so, these values can be entered on this tab directly.

If you are developing in a location that is not listed in the BCBC Appendix C, and the AHJ does not provide you with design data, click thorough to the GENERATE DESIGN VALUES link below.

				Custom Climate and Seis	mic Data									
	S	now Loads	Specifed Snow	Load (kPa)	HWP			Site Clas	ss - Smax					
Location	Ss	Sr	Roof width <= 4.3m	Roof width > 4.3m	(1/50)	Unknown	A	В	С	D	E			
<custom location=""></custom>			0.000	1.000	-						-	-		
Return to Part	9 Bracing	Calculator						GEN	ERATE D	ESIGN VAL	UES	1		
		11	Permit/File Number: BP_9999	999 Calculations complet	ed by: Tim	Namer - twarn	er@boabc.o	rg] 🖽 (A-2) C2 &	C3 Genera	ator	0 .	,	20
-				End of Sheet (A-1) Custor	m Climate>					_			_	_
								-						

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A (A-2) C2 & C3 Generator -

For Deisgn, Compliance and Construction

(A-2) Site Specific Climate and Seismic Design Data Generator

NOTE: If you are using this sheet for the first time, we recommend wathcing the tutorial to the right first.

Custom Location C-2 & C-3 Generator

Location Inputs	
Address	Calculator Feedback and Notes
Number	Fill out as many entries as possible for accurate locating.
Street	
Suffix	
City	
Province	
Postal Code	Optional
Address	

GET COORDINATES AND SHOW LOCATION

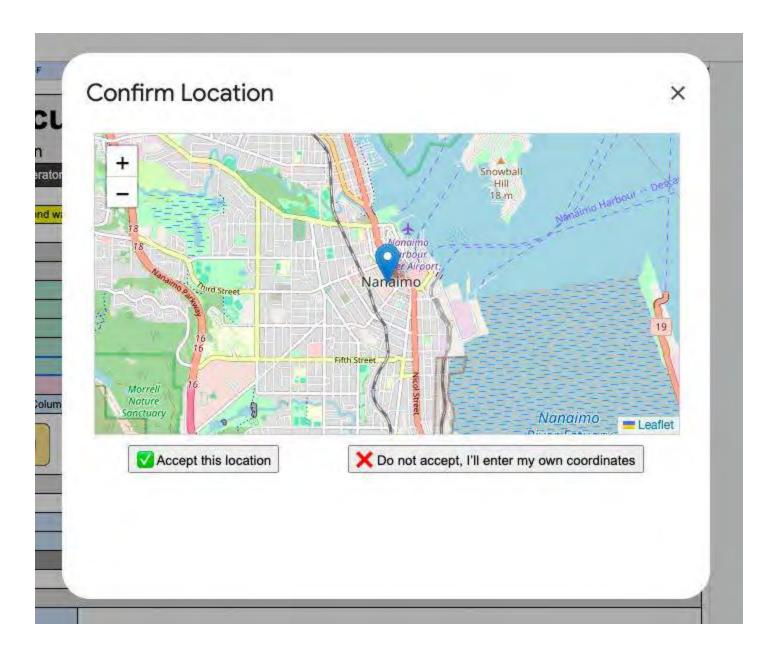
Coordinates				
	Calculation	Custom Entry		
Latitude				
Longitude		8		
Confirm	-		Select "No" to unlock Custom Entry	

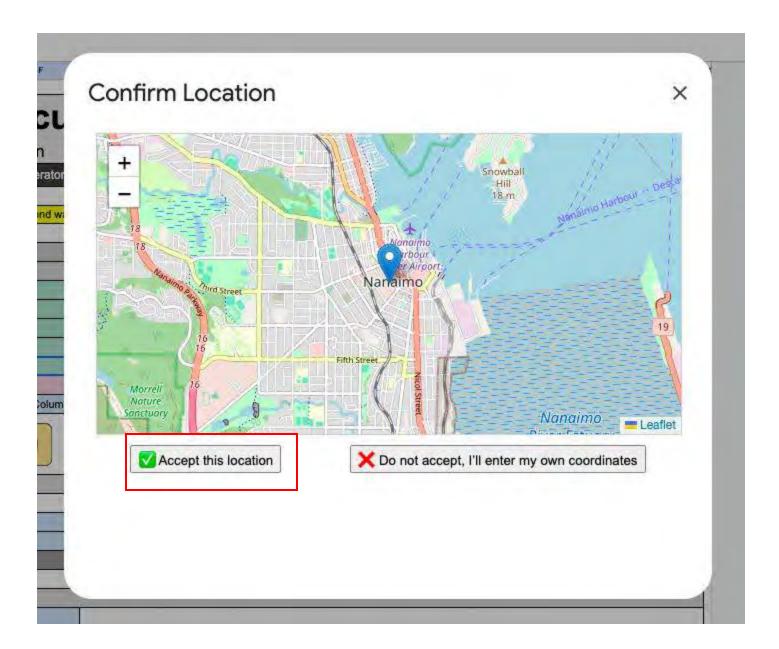
Confirmed Location Coordinates			
Latitude			
Longitude			
Longitude			

CALCULATE SMAX

	Bracing Calc	unator	RESET SHEET		beta_1.0
	Compliance and Construction				
(A-2) Site Specii	ic Climate and Seismic Design Data Genera	tor			
NOTE: If you are	using this sheet for the first time, we recommend	wathcing the tutorial to t	he right first.	Custom Locatio	on C-2 & C-3 Generator
Location Inputs	- 11 ⁻				
Address				Calculator Feedback and Notes	
Number	411			Fill out as many entries as possible t	for accurate locating.
Street	Dunsmuir			1	
Suffix	Street				
City	Nanaimo				
Province	В				
Postal Code	British Columbia			Optional	
A didagente					
Address				-	
GET COOF	RDINATES AND SHOW LOCATION	1	0]	
(1]	
GET COOF	Calculation	Custom Entry	1		
GET COOF		Custom Entry	/		
Coordinates Latitude Longitude	Calculation	Custom Entry	/		
GET COOF Coordinates Latitude Longitude		Custom Entry	/	Select "No" to unlock Custom Entry	
GET COOF	Calculation	Custom Entry		Select "No" to unlock Custom Entry	
GET COOF Coordinates Latitude Longitude Confirm	Calculation	Custom Entry		Select "No" to unlock Custom Entry	
GET COOF	Calculation	Custom Entry		Select "No" to unlock Custom Entry	

	Bracing Calcu	Hator RESET SHEET	beta_1.0-
For Deisgn	Compliance and Construction		
(A-2) Site Speci	fic Climate and Seismic Design Data Generato		
NOTE: If you are	using this sheet for the first time, we recommend w	athcing the tutorial to the right first.	Custom Location C-2 & C-3 Generator
Location Inputs			
Address			Calculator Feedback and Notes
Number	411		Fill out as many entries as possible for accurate locating.
Street	Dunsmuir		
Suffix	Street		*
City	Nanaimo		
Province	B		
Postal Code	British Columbia		Optional
Address	Dritter countera		
GET COOP	RDINATES AND SHOW LOCATION	0	
Coordinates	- 44		
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	Calculation	Custom Entry	
Latitude			
Longitude			
Confirm	- ÷	1	Select "No" to unlock Custom Entry
	on Coordinates		
Confirmed Location			
and a second second second			
Confirmed Location Latitude Longitude			





(A 3) Cita Canal	, Compliance and Construction ific Climate and Seismic Design Data Generation	tor	-	
(A-2) Site Speci	nic Climate and Seismic Design Data Genera	lior		
NOTE: If you are	using this sheet for the first time, we recommen	d wathcing the tutorial to the right first.		Custom Location C-2 & C-3 Generator
Location Inputs			_	
Address				Calculator Feedback and Notes
Number	411			Fill out as many entries as possible for accurate locating.
Street	Dunsmuir			
Suffix	Street		-	
City	Nanaimo			
Province	British Columbia			
				Optional
Postal Code				
Address	411 Dunsmuir Street Nanaimo British Co	umbia		
Address	411 Dunsmuir Street Nanaimo British Co	umbia		
Address GET COOP		Custom Entry		
Address GET COOP	RDINATES AND SHOW LOCATION)		Coordinates provided via Nominatim – © OpenStreetMap contributors (ODbl
Address GET COOP Coordinates	RDINATES AND SHOW LOCATION)		Coordinates provided via Nominatim – © OpenStreetMap contributors (ODbl
Address GET COOP Coordinates Latitude	Calculation 49.1636515)		
Address GET COOM Coordinates Latitude Longitude	Calculation 49.1636515 -123.9387911 Yes -)		Coordinates provided via Nominatim – © OpenStreetMap contributors (ODbl
Address GET COON Coordinates Latitude Longitude Confirm	Calculation 49.1636515 -123.9387911 Yes -)		Coordinates provided via Nominatim – © OpenStreetMap contributors (ODbl Coordinates provided via Nominatim – © OpenStreetMap contributors (ODbl Select "No" to unlock Custom Entry

For Deisgn,	Compliance and Constru	ction	
(A-2) Site Specif	fic Climate and Selsmic Design Data	Generator	
NOTE: If you are	using this sheet for the first time, we rec	ommend wathcing the tutorial to the right first.	Custom Location C-2 & C-3 Generator
Location Inputs			
Address			Calculator Feedback and Notes
Number	411		Fill out as many entries as possible for accurate locating.
Street	Dunsmuir		
Suffix	Street		12
City	Nanaimo		
Province	British Columbia		*
Postal Code			Optional
Address	411 Dunsmuir Street Nanaimo Br		Optional
Address	RDINATES AND SHOW LOCA	TION	Optional
GET COOF	Prove and a second s		
Address GET COOF Coordinates Latitude	RDINATES AND SHOW LOCA	TION	Coordinates provided via Nominatim – © OpenStreetMap contributors (ODbL)
GET COOF	RDINATES AND SHOW LOCA	TION	Coordinates provided via Nominatim – © OpenStreetMap contributors (ODbL)
Address GET COOF Coordinates Latitude	Calculation 49.1636515	TION	Optional Coordinates provided via Nominatim – © OpenStreetMap contributors (ODbL) Coordinates provided via Nominatim – © OpenStreetMap contributors (ODbL) Select "No" to unlock Custom Entry
Address GET COOF Coordinates Latitude Longitude	Calculation 49.1636515 -123.9387911 Yes -	TION	Coordinates provided via Nominatim – © OpenStreetMap contributors (ODbL) Coordinates provided via Nominatim – © OpenStreetMap contributors (ODbL)
Address GET COOF Coordinates Latitude Longitude Confirm	Calculation 49.1636515 -123.9387911 Yes -	TION	Coordinates provided via Nominatim – © OpenStreetMap contributors (ODbL) Coordinates provided via Nominatim – © OpenStreetMap contributors (ODbL)

Confirmed Locati	on Coordinates	
Latitude	49.164	
Longitude	-123.939	

Site Class	S(0.2,Xs)	Sa(0.5, Xs)	Smax	Seismic values retrieved from Natural Resources Canada, NBC 2020, used under Open Government Licence – Canada.
A	0.8600	0.5340	0.573	View Seismic Data: Site Class A
В	1.0500	0.6830	0.700	S View Seismic Data: Site Class B
С	1.3400	1.1600	1.160	O View Seismic Data: Site Class C
D	1.3500	1.5000	1.500	O View Seismic Data: Site Class D
E	1.3300	1.5600	1.560	View Seismic Data: Site Class E
Unknown			1.560	

Snow and Wind Design Values for Nearby Locations

FIND NEARBY LOCATIONS WITH KNOWN DESIGN LOAD VALUES

Nearby Locations	Elevation	Distance (km)	Bearing	IDW	include?	Ss	Sr	HWP (1/50)
								1
								1
								101
				1		-		

 \equiv

🔒 (A-2) C2 & C3 Generator 🔹

Confirmed Locati	on Coordinates	
Latitude	49.164	
Longitude	-123.939	

Site Class	S(0.2,Xs)	Sa(0.5, Xs)	Smax	Seismic values retrieved from Natural Resources Canada, NBC 2020, used under Open Government Licence – Canada
A	0.8600	0.5340	0.573	G View Seismic Data: Site Class A
В	1.0500	0.6830	0.700	S View Seismic Data: Site Class B
С	1.3400	1.1600	1.160	View Seismic Data: Site Class C
D	1.3500	1.5000	1,500	S View Seismic Data: Site Class D
E	1.3300	1.5600	1.560	S View Seismic Data: Site Class E
Unknown			1.560	

Snow and Wind Design Values for Nearby Locations

FIND NEARBY LOCATIONS WITH KNOWN DESIGN LOAD VALUES

Nearby Locations	Elevation	Distance (km)	Bearing	IDW	include?	Ss	Sr	HWP (1/50)
								0
)	
				1				
							1	
				1		-		

 \equiv

🔒 (A-2) C2 & C3 Generator 🔹

Confirmed Locati	on Coordinates	
Latitude	49.164	
Longitude	-123.939	

Site Class	S(0.2,Xs)	Sa(0.5, Xs)	Smax	Seismic values retrieved from Natural Resources Canada, NBC 2020, used under Open Government Licence - Canada.			
A	0.8600	0.5340	0.573	O View Seismic Data: Site Class A			
В	1.0500	0.6830	0.700	O View Seismic Data: Site Class B			
с	1.3400	1.1600	1.160	S View Seismic Data: Site Class C			
D	1.3500	1.5000	1.500				
E	1.3300	1.5600	1.560	S https://www.earthquakes			
Unknown		1	1.560				

Snow and Wind Design Values for Nearby Locations

FIND NEARBY LOCATIONS WITH KNOWN DESIGN LOAD VALUES

Nearby Locations	Elevation	Distance (km)	Bearing	IDW	Include?	Ss	Sr	HWP (1/50)
1	1							
			1	-				
	1			-				
		1		-				
				-				
				-				
1								

REVIEW & CALCUL ATE SELECTED LOCATIONS

www.earthquakescanada.nrcan.gc.ca/hazard-alea/interpolat/nbc2020-cnb2020-en.php?code=nbc2020&latitude=49.1636515&longitude=-123.9387911&siteDesignation=XS&si

Confirmed Locati	on Coordinates	
Latitude	49.164	
Longitude	-123.939	

Site Class	S(0.2,Xs)	Sa(0.5, Xs)	Smax	Seismic values retrieved from Natural Resources Canada, NBC 2020, used under Open Government Licence - Canada.			
A	0.8600	0.5340	0.573	View Seismic Data. Site Class A			
В	1.0500	0.6830	0.700	O View Seismic Data: Site Class B			
с	1.3400	1.1600	1.160	Wiew Seismic Data: Site Class C			
D	1.3500	1.5000	1.500				
E	1.3300	1.5600	1.560	S https://www.earthquakes			
Unknown		1 A	1.560				

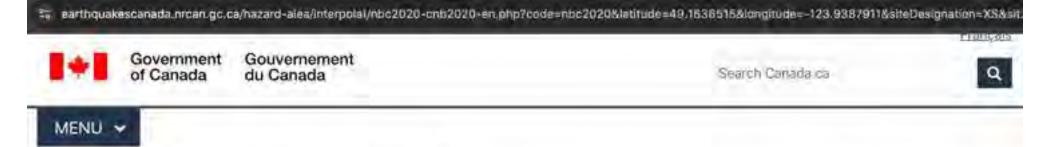
Snow and Wind Design Values for Nearby Locations

FIND NEARBY LOCATIONS WITH KNOWN DESIGN LOAD VALUES

Nearby Locations	Elevation	Distance (km)	Bearing	IDW	Include?	Ss	Sr	HWP (1/50)
	1							
				-		1		
			-					
						1		
			1					

REVIEW & CALCUL ATE SELECTED LOCATIONS

www.earthquakescanada.nrcan.gc.ca/hazard-alea/interpolat/nbc2020-cnb2020-en.php?code=nbc2020&latitude=49.1636515&longitude=-123.9387911&siteDesignation=XS&si



Canada.ca > Natural Resources Canada > Earthquakes Canada

2020 National Building Code of Canada Seismic Hazard Tool

This application provides seismic values for the design of buildings in Canada under Part 4 of the National Building Code of Canada (NBC) 2020 as prescribed in Article 1.1.3.1. of Division B of the NBC 2020.

Seismic Hazard Values

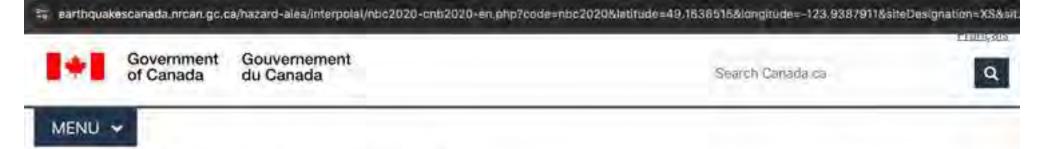
6

User requested values

Code edition	NBC 2020
Site designation X_S	Xc
Latitude (*)	49.164
Longitude (*)	+123.939

Please select one of the tabs below.

NBC 2020 Additional Values Plots API Background Information



Canada.ca > Natural Resources Canada > Earthquakes Canada

2020 National Building Code of Canada Seismic Hazard Tool

This application provides seismic values for the design of buildings in Canada under Part 4 of the National Building Code of Canada (NBC) 2020 as prescribed in Article 1.1.3.1. of Division B of the NBC 2020.

Seismic Hazard Values User requested values Code edition NBC 2020 Site designation Xs Xc Latitude (*) 49.164 Longitude (*) -123.939

6

Please select one of the tabs below.

NBC 2020 Additional Values Plots API Background Information

earthquakescanada.nrcan.gc.ca/hazard-alea/interpolat/nbc2020-cnb2020-en.php?code=nbc2020&latitude=49.1636515&longitude=-123.9387911&siteDesignation=XS&sit....

Seismic Hazard Values

User requested values

Code edition	14BC 2020
Site designation \mathbf{X}_{S}	×
Latitude (*)	49.164
Longitude (*)	-125.939

Please select one of the tabs below.

NBC 2020 Additional Values Plots API Background Information

The 5%-damped <u>spectral acceleration</u> (S₃(T,X), where T is the period, In s, and X is the site designation) and <u>peak ground</u> acceleration (PGA(X)) values are given in units of acceleration due to gravity (g, 9.81 m/s²). <u>Peak ground velocity</u> (PGV(X)) values are given in m/s. Probability is expressed in terms of percent exceedance in 50 years. Further information on the calculation of seismic hazard is provided under the *Background Information* tab.

The 2%-in-50-year seismic hazard values are provided in accordance with Article 4.1.8.4. of the NBC 2020. The 5%- and 10%in-50-year values are provided for additional performance checks in accordance with Article 4.1.8.23. of the NBC 2020.

See the Additional Values tab for additional seismic hazard values, including values for other site designations, periods, and probabilities not defined in the NBC 2020.

NBC 2020 - 2%/50 years (0.000404 per annum) probability

Sa(0.2, Xc)	$S_a(0.5, X_C)$	5,(1.0, X _C)	Sa(2.0, Xc)	Sa(5.0, Xc)	$S_{a}(10.0, X_{C})$	PGA(Xc)	PGV(X _C)
1:38	116	0.684	6.427	0.114	0.0457	0.573	0.686

earthquakescanada.nrcan.gc.ca/hazard-alea/interpolat/nbc2020-cnb2020-en.php?code=nbc2020&latitude=49.1636515&longitude=-123.9387911&siteDesignation=XS&sit....

Seismic Hazard Values

User requested values

Code edition	NBC 2020
Site designation X _S	×
Latitude (*)	49.164
Longitude (*)	-125.939

Please select one of the tabs below.

NBC 2020 Additional Values Plots API Background Information

The 5%-damped <u>spectral acceleration</u> (S₃(T,X), where T is the period, In s, and X is the site designation) and <u>peak ground</u> acceleration (PGA(X)) values are given in units of acceleration due to gravity (g, 9.81 m/s²). <u>Peak ground velocity</u> (PGV(X)) values are given in m/s. Probability is expressed in terms of percent exceedance in 50 years. Further information on the calculation of seismic hazard is provided under the *Background Information* tab.

The 2%-in-50-year seismic hazard values are provided in accordance with Article 4.1.8.4. of the NBC 2020. The 5%- and 10%in-50-year values are provided for additional performance checks in accordance with Article 4.1.8.23. of the NBC 2020.

See the Additional Values tab for additional seismic hazard values, including values for other site designations, periods, and probabilities not defined in the NBC 2020.

			a second a second second second					
S _a (0.2, X _c)	$S_a(0.5, X_C)$	5,(1.0, X _c)	Sa(2.0, Xc)	Sa(5.0, Xc)	S _a (10.0, X _c)	PGA(Xc)	PGV(Xc)	
1.38	1.16	0.684	0.427	10.114	0.0457	0.573	0.886	

NBC 2020 - 2%/50 years (0.000404 per annum) probability

Site Class	S(0.2,Xs)	Sa(0.5, Xs)	Smax	Seismic values retrieved from Natural Resources Canada, NBC 2020, used under Open Government Licence – Canada.
A	0.8600	0.5340	0.573	O View Seismic Data: Site Class A
в	1.0500	0.6830	0.700	View Seismic Data: Site Class B
С	1.3400	1.1600	1.160	O View Seismic Data: Site Class C
D	1.3500	1.5000	1.500	S View Seismic Data: Site Class D
E	1.3300	1.5600	1.560	S View Seismic Data: Site Class E
Unknown			1.560	

Snow and Wind Design Values for Nearby Locations

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FIND NEARBY LOCATIONS WITH KNOWN DESIGN LOAD VALUES

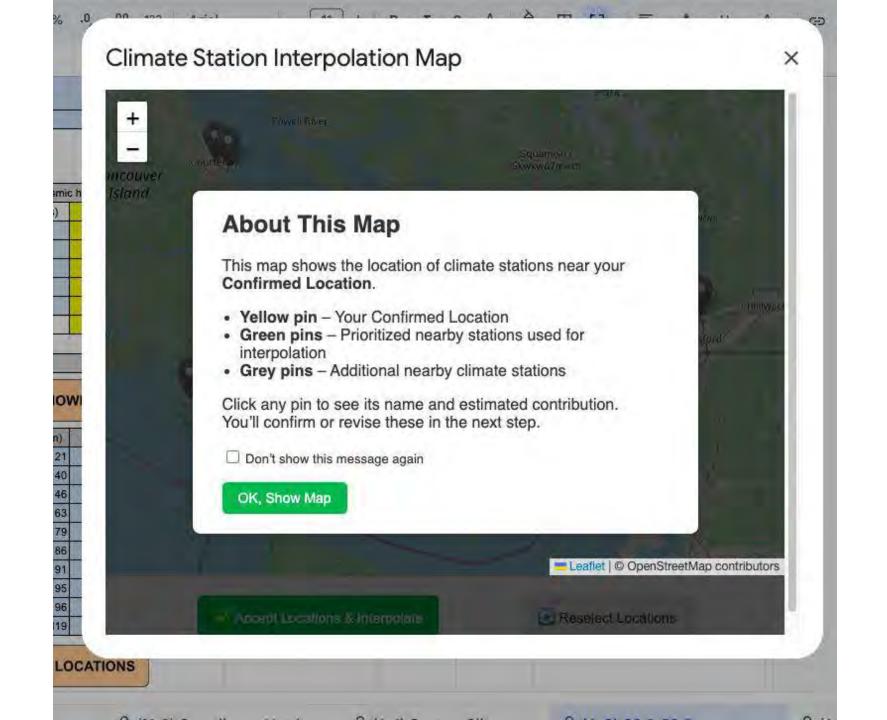
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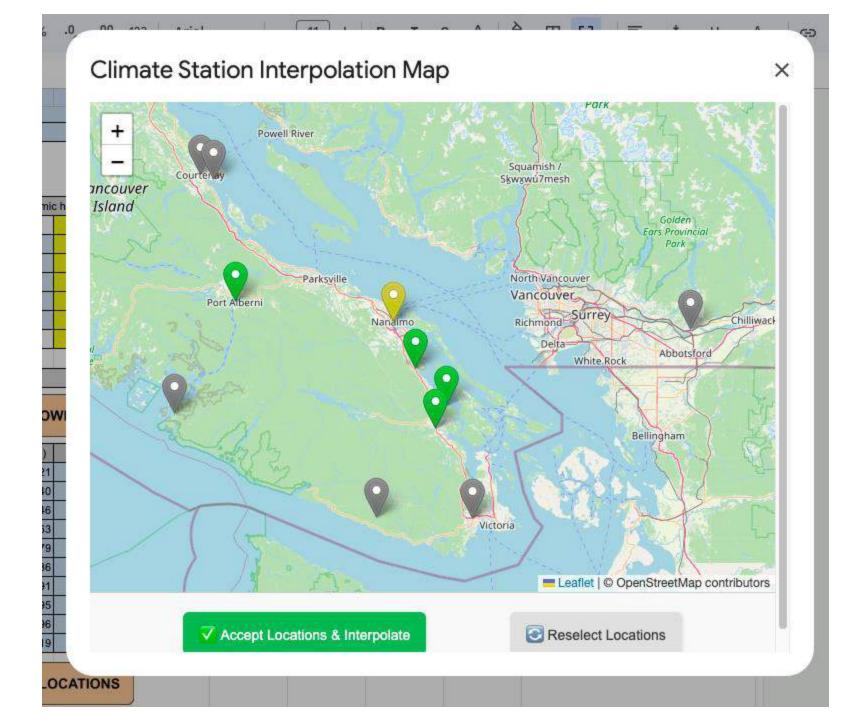
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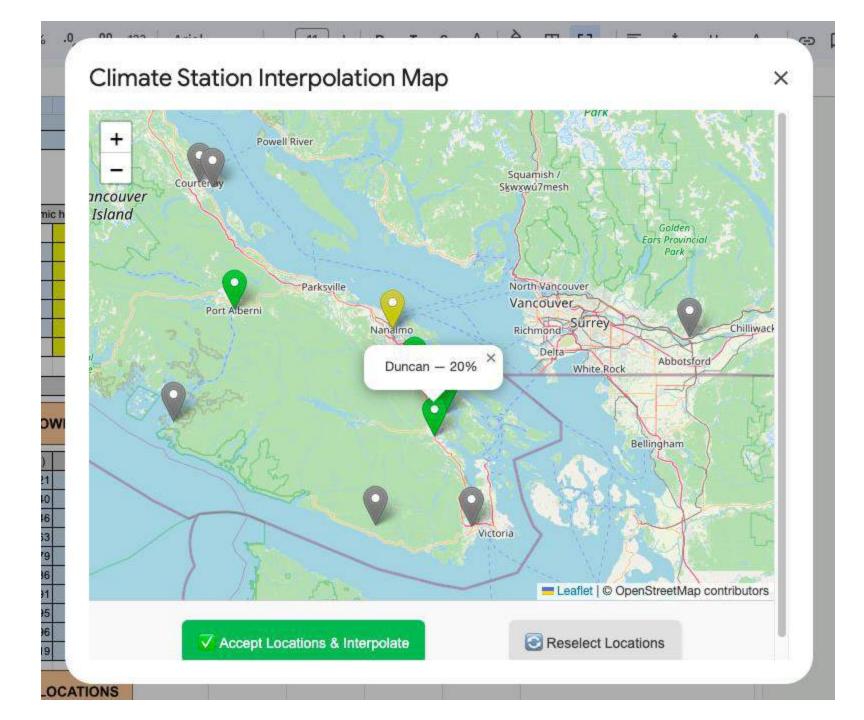
≡

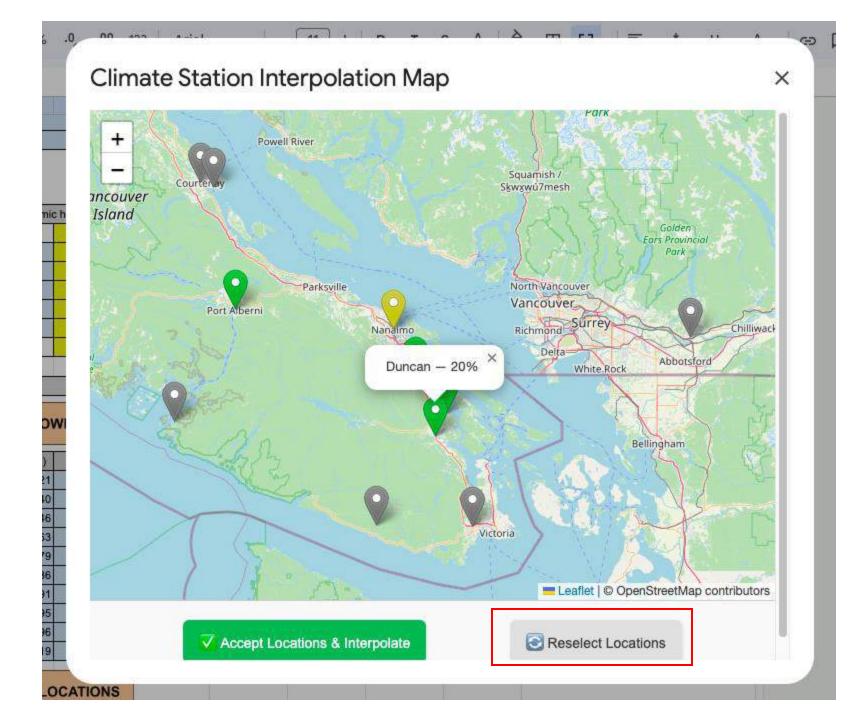
Site Class	S(0.2,Xs)	Sa(0.5, Xs)	Smax	Seismic values retrieved from Natural Resources Canada, NBC 2020, used under Open Government Licence – Canada
A	0.8600	0.5340	0.573	O View Seismic Data: Site Class A
в	1.0500	0.6830	0.700	View Seismic Data: Site Class B
С	1.3400	1.1600	1.160	O View Seismic Data: Site Class C
D	1.3500	1.5000	1.500	O View Seismic Data: Site Class D
E	1.3300	1.5600	1.560	View Seismic Data: Site Class E
Unknown			1.560	

Nearby Locations	Elevation	Distance (km)	Bearing	IDW	Include?	Ss	Sr	HWP (1/50)	
	2								









Site Class	S(0.2,Xs)	Sa(0.5, Xs)	Smax	Seismic values retrieved from Natural Resources Canada, NBC 2020, used under Open Government Licence – Canada.
A	0.8600	0.5340	0.573	View Seismic Data: Site Class A
В	1.0500	0.6830	0.700	O View Seismic Data: Site Class B
C	1.3400	1.1600	1.160	O View Seismic Data: Site Class C
D	1.3500	1.5000	1.500	View Seismic Data: Site Class D
E	1.3300	1.5600	1.560	View Seismic Data: Site Class E
Unknown			1.560	

Snow and Wind Design Values for Nearby Locations

FIND NEARBY LOCATIONS WITH KNOWN DESIGN LOAD VALUES

Nearby Locations	Elevation	Distance (km)	Bearing	IDW	Include?	Ss	Sr	HWP (1/50)
Ladysmith	80	21	SE	43.20%		2.4	0.4	0.4
Crofton	5	40	SE	22.68%	2	1.8	0.2	0.4
Duncan	10	46	S	19.72%	2	1.8	0.4	0.39
Alberni	12	63	w	14.40%	2	2.6	0.4	0.32
Jordan River	20	79	S			1.2	0.4	0.55
Langford	80	86	S			1.8	0.3	0.4
Comox	15	91	NW			2.4	0.4	0.48
Bamfield	20	95	w			1	0.4	0.5
Courtenay	10	96	NW			2.4	0.4	0.48
Mission City	45	119	E			2.4	0.3	0.43

REVIEW & CALCULATE SELECTED LOCATIONS

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Site Class	S(0.2,Xs)	Sa(0.5, Xs)	Smax	Seismic values retrieved from Natural Resources Canada, NBC 2020, used under Open Government Licence – Canada.
A	0.8600	0.5340	0.573	View Seismic Data: Site Class A
В	1.0500	0.6830	0.700	O View Seismic Data: Site Class B
C	1.3400	1.1600	1.160	O View Seismic Data: Site Class C
D	1.3500	1.5000	1.500	View Seismic Data: Site Class D
E	1.3300	1.5600	1.560	View Seismic Data: Site Class E
Unknown			1.560	

Snow and Wind Design Values for Nearby Locations

FIND NEARBY LOCATIONS WITH KNOWN DESIGN LOAD VALUES

Nearby Locations	Elevation	Distance (km)	Bearing	IDW	Include?	Ss	Sr	HWP (1/50)
Ladysmith	80	21	SE	43.20%		2.4	0.4	0.4
Crofton	5	40	SE	22.68%	2	1.8	0.2	0.4
Duncan	10	46	S	19.72%	2	1.8	0.4	0.39
Alberni	12	63	W	14.40%		2.6	0.4	0.32
Jordan River	20	79	S			1.2	0.4	0.55
Langford	80	86	S			1.8	0.3	0.4
Comox	15	91	NW			2.4	0.4	0.48
Bamfield	20	95	W			1	0.4	0.5
Courtenay	10	96	NW			2.4	0.4	0.48
Mission City	45	119	E			2.4	0.3	0.43

REVIEW & CALCULATE SELECTED LOCATIONS

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Latitude	49.164
Longitude	-123.939

Site Class	S(0.2,Xs)	Sa(0.5, Xs)	Smax	Seismic values retrieved from Natural Resources Canada, NBC 2020, used under Open Government Licence – Canada.
A	0.8600	0.5340	0.573	O View Seismic Data: Site Class A
В	1.0500	0.6830	0,700	O View Seismic Data: Site Class B
С	1.3400	1.1600	1.160	S View Seismic Data: Site Class C
D	1.3500	1.5000	1.500	View Seismic Data: Site Class D
E	1.3300	1.5600	1.560	View Seismic Data: Site Class E
Unknown			1.560	

Snow and Wind Design Values for Nearby Locations

FIND NEARBY LOCATIONS WITH KNOWN DESIGN LOAD VALUES

Nearby Locations	Elevation	Distance (km)	Bearing	IDW	Include?	Ss	Sr	HWP (1/50)
Ladysmith	80	21	SE	43.20%	Z	2.4	0.4	0.4
Crofton	5	40	SE	22.68%		1.8	0.2	0.4
Duncan	10	46	S	19.72%		1.8	0.4	0.39
Alberni	12	63	w	14.40%		2.6	0.4	0.32
Jordan River	20	79	S			1.2	0.4	0.55
Langford	80	86	S			1.8	0.3	0.4
Comox	15	91	NW			2.4	0.4	0.48
Bamfield	20	95	w			1	0.4	0.5
Courtenay	10	96	NW			2.4	0.4	0.48
Mission City	45	119	E			2.4	0.3	0.43

REVIEW & CALCULATE SELECTED LOCATIONS

ide	49.164
itude	-123.939

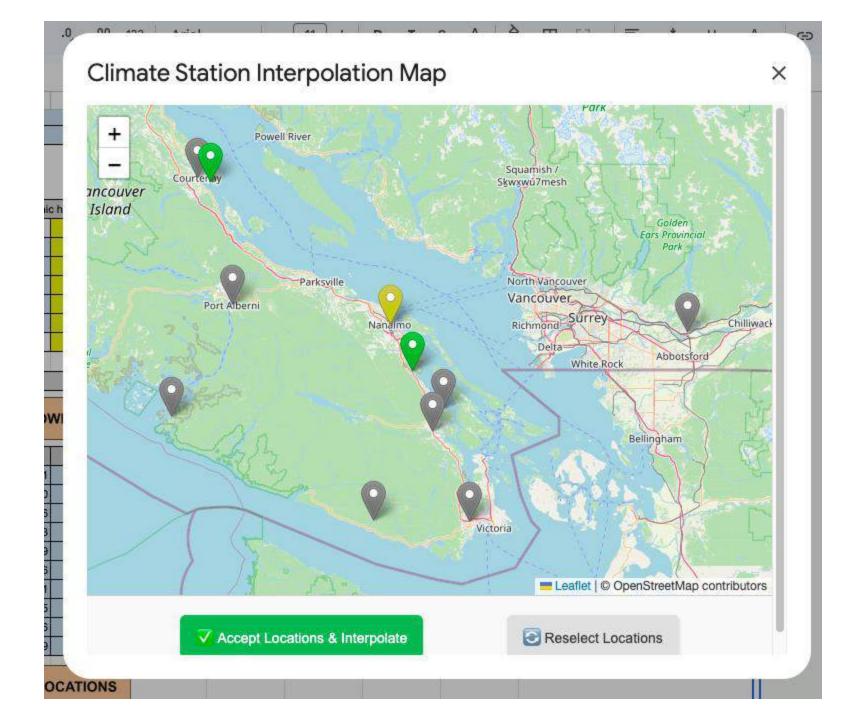
Site Class	S(0.2,Xs)	Sa(0.5, Xs)	Smax	Seismic values retrieved from Natural Resources Canada, NBC 2020, used under Open Government Licence – Canada.
A	0.8600	0.5340	0.573	O View Seismic Data: Site Class A
В	1.0500	0.6830	0,700	O View Seismic Data: Site Class B
С	1.3400	1.1600	1.160	S View Seismic Data: Site Class C
D	1.3500	1.5000	1.500	View Seismic Data: Site Class D
E	1.3300	1.5600	1.560	View Seismic Data: Site Class E
Unknown			1.560	

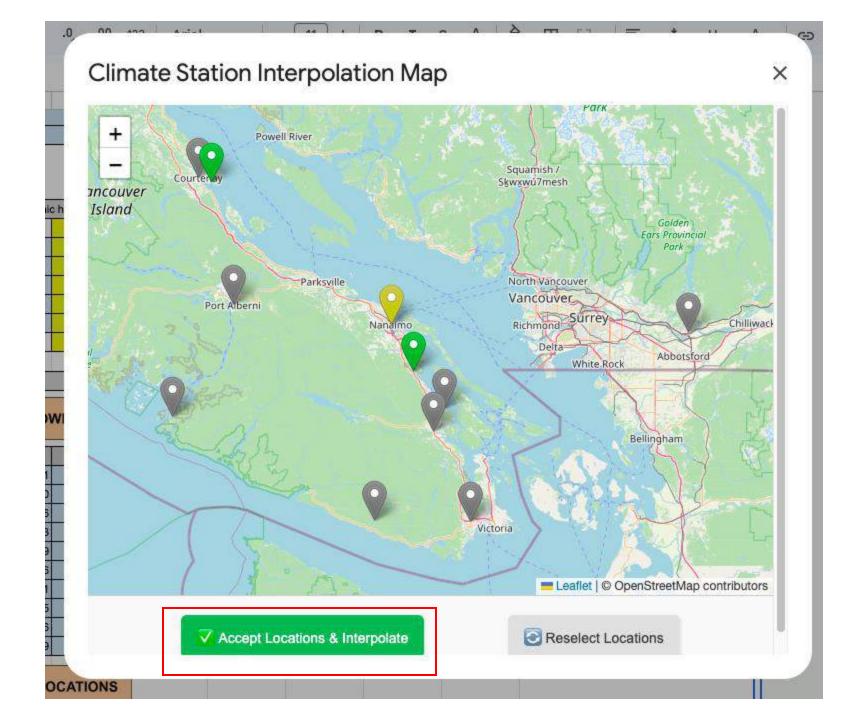
Snow and Wind Design Values for Nearby Locations

FIND NEARBY LOCATIONS WITH KNOWN DESIGN LOAD VALUES

Nearby Locations	Elevation	Distance (km)	Bearing	IDW	Include?	Ss	Sr	HWP (1/50)
Ladysmith	80	21	SE	43.20%		2.4	0.4	0.4
Crofton	5	40	SE	22.68%		1.8	0.2	0.4
Duncan	10	46	S	19.72%		1.8	0.4	0.39
Alberni	12	63	w	14.40%		2.6	0.4	0.32
Jordan River	20	79	S			1.2	0.4	0.55
Langford	80	86	S			1.8	0.3	0.4
Comox	15	91	NW			2.4	0.4	0.48
Bamfield	20	95	w			1	0.4	0.5
Courtenay	10	96	NW			2.4	0.4	0.48
Mission City	45	119	E			2.4	0.3	0.43

REVIEW & CALCULATE SELECTED LOCATIONS





Unknown		Twee co	1.560	VIEW Seistrat Data. Site Class E	
E	1.3300	1.5600	1.560	O View Seismic Data: Site Class E	
D	1.3500	1.5000	1.500	O View Seismic Data: Site Class D	
C	1.3400	1.1600	1.160	View Seismic Data: Site Class C	

Snow and Wind Design Values for Nearby Locations

FIND NEARBY LOCATIONS WITH KNOWN DESIGN LOAD VALUES

Nearby Locations	Elevation	Distance (km)	Bearing	IDW	Include?	Ss	Sr	HWP (1/50)
Ladysmith	80	21	SE	81.25%		2.4	0.4	0.4
Crofton	5	40	SE			1.8	0.2	0.4
Duncan	10	46	S			1.8	0.4	0.39
Alberni	12	63	w	j.		2.6	0.4	0.32
Jordan River	20	79	S			1.2	0.4	0.55
Langford	80	86	S			1.8	0.3	0.4
Comox	15	91	NW	18.75%	2	2.4	0.4	0.48
Bamfield	20	95	w			1	0.4	0.5
Courtenay	10	96	NW			2.4	0.4	0.48
Minutine Other	45	119	E			2.4	0.3	0.43
Mission City	40	113	-				0.0	0.10
(ALCULATE SE	ELECTED LO	CATIONS			Ss	Sr	HWP (1/50)
REVIEW & C	ALCULATE SE	ELECTED LO	CATIONS					
REVIEW & C Interpolated Snow ar Confirmed Location	ALCULATE SE	Confirmed Locati	CATIONS on TE>	2 99999991 C		Ss	Sr 0.400	HWP (1/50) 0.415

😑 🔒 (M-1) Adjustment Factors 🔹

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Unknown		Twee co	1.560	VIEW Seistrat Data. Site Class E	
E	1.3300	1.5600	1.560	O View Seismic Data: Site Class E	
D	1.3500	1.5000	1.500	O View Seismic Data: Site Class D	
C	1.3400	1.1600	1.160	View Seismic Data: Site Class C	

Snow and Wind Design Values for Nearby Locations

FIND NEARBY LOCATIONS WITH KNOWN DESIGN LOAD VALUES

Nearby Locations	Elevation	Distance (km)	Bearing	IDW	Include?	Ss	Sr	HWP (1/50)
Ladysmith	80	21	SE	81.25%		2.4	0.4	0.4
Crofton	5	40	SE			1.8	0.2	0.4
Duncan	10	46	S			1.8	0.4	0.39
Alberni	12	63	w			2.6	0.4	0.32
Jordan River	20	79	S			1.2	0.4	0.55
Langford	80	86	S			1.8	0.3	0.4
Comox	15	91	NW	18.75%	8	2.4	0.4	0.48
Bamfield	20	95	w			1	0.4	0.5
Courtenay	10	96	NW			2.4	0.4	0.48
Mission City	45	119	E			2.4	0.3	0.43
	ALCULATE SE					Ss	Sr	HWP (1/50)
Interpolated Snow a								
						2,400	0.400	0.415
Confirmed Location	LUES TO <cu< td=""><td></td><td></td><td></td><td></td><td>2.400</td><td>0.400</td><td>0.415</td></cu<>					2.400	0.400	0.415
Confirmed Location		STOM CLIMA	TE>	2_9999999 Ca	alculations comp	2,400		

😑 🔒 (M-1) Adjustment Factors 🔹

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RESET SHEET

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🔒 (A-2) C2 & C3 Generator -

For Design, Compliance and Construction

Sheet (A-1): Custom Climate and Seismic Inputs

NOTE: In some regions, AHJs may be providing code users with climate and seismic data that differ from the BCBC Appendix C values. If so, these values can be entered on this tab directly.

If you are developing in a location that is not listed in the BCBC Appendix C, and the AHJ does not provide you with design data, click thorough to the GENERATE DESIGN VALUES link below.

				Custom Climate and Seis	mic Data						
	S	now Loads	Specifed Snow	Load (kPa)	HWP			Site Class	Smax		
Location	Ss	Sr	Roof width <= 4.3m	Roof width > 4.3m	(1/50)	Unknown	A	В	С	D	E
<custom location=""></custom>	2.	400 0.400	1.480	1.720	0.415	1.560	0.573	0.700	1.160	1.500	1.560
Return to Part	9 Bracing	Calculator						GENE	RATE DES	IGN VALU	ES
	-	P	ermit/File Number: BP_9999	999 Calculations complet	ed by: Tim W	/amer - twarner	@boabc.org			-	
				End of Sheet (A-1) Custor	n Climate>						
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	_										
	-										

A-1) Custom Climate +

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For Design, Compliance and Construction

Sheet (A-1): Custom Climate and Seismic Inputs

NOTE: In some regions, AHJs may be providing code users with climate and seismic data that differ from the BCBC Appendix C values. If so, these values can be entered on this tab directly.

If you are developing in a location that is not listed in the BCBC Appendix C, and the AHJ does not provide you with design data, click thorough to the GENERATE DESIGN VALUES link below.

					Custom Climate and Seis	mic Data						
		Snow	Loads	Specifed Snow	Load (kPa)	HWP			Site Class -	Smax		
Location	Ss		Sr	Roof width <= 4.3m	Roof width > 4.3m	(1/50)	Unknown	A	В	С	D	E
<custom location=""></custom>	-	2.400	0.400	1.480	1.720	0.415	1.560	0.573	0.700	1.160	1.500	1.560

Return to Part 9 Bracing Calculator

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IP	ermit/File Number: BP_9999999	Calculations completed by	: Tim Warner - twarner@bo	abc.org	
	<end of<="" th=""><th>of Sheet (A-1) Custom Clin</th><th>mate></th><th></th><th></th></end>	of Sheet (A-1) Custom Clin	mate>		
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GENERATE DESIGN VALUES

Part 9	Bracing	Calcul	ator
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RESET SHEET

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🔒 (A-2) C2 & C3 Generator 🔹

For Design, Compliance and Construction

Sheet (A-1): Custom Climate and Seismic Inputs

NOTE: In some regions, AHJs may be providing code users with climate and seismic data that differ from the BCBC Appendix C values. If so, these values can be entered on this tab directly.

If you are developing in a location that is not listed in the BCBC Appendix C, and the AHJ does not provide you with design data, click thorough to the GENERATE DESIGN VALUES link below.

						Custom Climate and Seis	mic Data						
	S	now Loa	ds		Specifed Snow	Load (kPa)	HWP			Site Class	Smax		
Location	Ss	Sr		Roof wid	dth <= 4.3m	Roof width > 4.3m	(1/50)	Unknown	A	В	C	D	E
<custom location=""></custom>	2	,400	0.400		1.480	1.720	0.415	1.560	0.573	0.700	1,160	1.500	1.56
Return to Part	9 Bracing	Calcul	ator							GENE	RATE DES	IGN VALU	IES
- 🖽 (I-1) Gen	eral		D	00	er: BP_9999	999 Calculations complet	ed by: Tim W	/amer - twarner	@boabc.org	-			-
-						End of Sheet (A-1) Custor	and the second se		-				
										-			

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RESET SHEET

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A-2) C2 & C3 Generator -

For Design, Compliance and Construction

Sheet (A-1): Custom Climate and Seismic Inputs

NOTE: In some regions, AHJs may be providing code users with climate and seismic data that differ from the BCBC Appendix C values. If so, these values can be entered on this tab directly.

If you are developing in a location that is not listed in the BCBC Appendix C, and the AHJ does not provide you with design data, click thorough to the GENERATE DESIGN VALUES link below.

				Custom Climate and Seis	mic Data						
	Snow	Loads	Specifed Snow	Load (kPa)	HWP			Site Class	Smax		
Location	Ss	Sr	Roof width <= 4.3m	Roof width > 4.3m	(1/50)	Unknown	A	В	C	D	E
<custom location=""></custom>	2,400	0.400	1.480	1.720	0.415	1.560	0.573	0.700	1.160	1.500	1.560
Return to Part	9 Bracing Ca	liculator						GENE	RATE DES	IGN VALU	ES
🔲 🖽 (I-1) Gen	eral	D	0 00 er: BP_9999	999 Calculations complet	ed by: Tim W	/amer - twarner	@boabc.org				
				End of Sheet (A-1) Custor	m Climate>						
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🔒 (M-1) Adjustment Factors 🔹

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Part 9 Bracing Cal	culator RESET SHEET	RESET CALQULATO	beta_1.041
For Design, Compliance and Construction			
Sheet (I-1): Inputs - General			USER INPUT SHEETS: I-1 I-2 I-3 I-4 R-4
Administrative Information			Calculator Feedback:
Address			Calculator recubation.
Permit/File/Reference Number	BP 9999999		
Calculations Completed by (Name)	Tim Warner		1
Calculations Completed by (Contact Information)	twamer@boshc.org		
Site and Environmental Conditions			
Site Design Location (see hover note)	<custom location=""></custom>		Click here to onter <custom location=""> climitte and sersmic data</custom>
Site Class	Unknown		A
Site Exposure	Rough Terrain		4
Specified Snow Load (kPa)	1.720		Roof width assumed to be >4.3m.
HWP (1/50)	0.415		4
HWP Range Identifier	0.4 < HWP ≤ 0.5		4
Smax	1.560		4
Smax Range Identifier	1.2 < Smax ≤ 1.6		1
Design Parameters - Overall Building			
Weight of Construction	Normal Weight Construction	-	All Braced Storeys are Normal Weight Construction
Sheathing Continuity	Continuous		All Bands in all Braced Storeys are Continuously Sheathed
Number of wood-framed floors?	0	÷	
Foundation Type	Slab-on-Grade	1.014	
Describe exterior walls supporting lowest wood-framed floor:			
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?			

🔒 (I-1) General 👻 🔒 (I-2) Bands 🖛

🔒 (I-3) Design & Feedback 🖛

🔒 (I-4) Length Compliance 🔹

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Part 9 Bracing Cal	culator	RESET CALCULATON	beta_1.041
For Design, Compliance and Construction			
Sheet (I-1): Inputs - General			USER INPUT SHEETS: I-1 I-2 I-3 I-4 R-4
Administrative Information			Calculator Feedback:
Address		1	
Permit/File/Reference Number	BP_9999999		
Calculations Completed by (Name)	Tim Warner		
Calculations Completed by (Contact Information)	twamer@boabc.org		
Site and Environmental Conditions		1	
Site Design Location (see hover note)	<custom location=""></custom>		Click here to onter <custom location=""> climate and seemic data</custom>
Site Class	Unknown		
Site Exposure	Rough Terrain	-	
Specified Snow Load (kPa)	1.720		Roof width assumed to be >4.3m.
HWP (1/50)	0.415		
HWP Range Identifier	0.4 < HWP ≤ 0.5		
Smax	1.560		
Smax Range Identifier	1.2 < Smax ≤ 1.6		
Design Parameters - Overall Building			
Weight of Construction	Normal Weight Construction	-	All Braced Storeys are Normal Weight Construction
Sheathing Continuity	Continuous	*	All Bands in all Braced Storeys are Continuously Sheathed
Number of wood-framed floors?	0	17	
Foundation Type	Slab-on-Grade	-	
Describe exterior walls supporting lowest wood-framed floor:		-	
Maximum height of exterior and interior wood-framed walls supporting lowest wood-framed floor?		*	

🔒 (I-1) General 👻 🔒 (I-2) Bands 🖛

🔒 (I-3) Design & Feedback 🔻

🔒 (I-4) Length Compliance 🔹

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Dynamic Checklist

Home Calculator ~ Tutorials Resources

Resources

GUIDES

- INUStrated Guide: Seismic Bracing Requirements (BCBC2018) Published by BC Housing
- Illustrated Guide: Lateral Bracing Redurements (BCBC2024)
 Published by BC Housing
- IRC Wall Bracino: A Guide for Builders, Designers and Plan Reviewers (IRC 2015) Written by Applied Building Technology Group, LLC

CALCULATORS

- CWC Wind and Seismic Bracing Calculator
- · Calcs App
- Linear Interpolator

WORKSHEETS

- BCBC 9.23 13 Plan Review Checklist (Dynamic Googie Sheet)
- BCBC 9.23.13 Plan Review Checklist (PDF)

Home Calculator ~ Tutorials Resources

Resources

GUIDES

- INUStrated Guide: Seismic Bracing Requirements (BCBC2018) Published by BC Housing
- Itustrated Guide: Lateral Bracing Requirements (BCBC2024)
 Published by BC Housing
- IRC Wall Bracino: A Guide for Builders, Designers and Plan Reviewers (IRC 2015) Written by Applied Building Technology Group, LLC

CALCULATORS

- CWC Wind and Seismic Bracing Calculator
- · Calcs App
- Linear Interpolator

WORKSHEETS

- BCBC 9.23,13 Plan Review Checklist (Dynamic Googie Sheet)
- BCBC 9.23.13 Plan Review Checklist (PDF)

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	100						A Designed															
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	Make "No" Smax	select will illu	tions on strate a	ly in t	ne ches	kboxes	in colum												grey.			
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	Make "No" Smax HWP Spec	(1/50)	tions on strate a	ly in t non-d	ne chec complia	kboxes	in colum								tion, Tr		or Exem		grey.			
	Make "No" Smax HWP Spec	(1/50)	tions on strate a now Loa	ly in t non-d	ne chec complia	kboxes nt posit	in colun	BCBC Subse	ection 9.23.13,	and if so r	revise you				Cod	ade-Off	or Exem		grey.			
	Make "No" Smax HWP Spec	(1/50)	tions on strate a now Loa pliance I	ly in t non-d id (kP Path	ne chec complia	kboxes nt posit	in colun	BCBC Subse		and if so r	revise you				Cod	ade-Off	or Exem		grey.			
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	Make "No" Smax HWP Spec	(1/50)	tions on strate a now Loa pliance	ly in t non-t id (kP Path	a)	kboxes	in colun ion with Building	BCBC Subse	ection 9.23.13,	n building a	area	ur design or			Cod	ade-Off	or Exem		grey.			
	Make "No" Smax HWP Spec	(1/50)	tions on strate a now Loa pliance Yes Yes	ly in t non-t ad (kP Path Na Na	a)	kboxes	Building	IS Group C, I	than 600m2 i	n building a	aréa	ur design or			Cod Div /	e Clause	or Exem 2		grey.			

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	Part 9	Bra	acing Calc	ulator		Last Updated: 21 May 20
			nce and Construction			
	Flan Hevew C					
	Prest HEY BUT	strength at the	iver and a second se			
				with only one selection in each row. Once on 9.23.13, and if so revise your design or set		, or grey. The selection o
	"No" will illustrate Smax		Int position with BCBC Subsection			, or grey. The selection o
	"No" will illustrate Smax HWP (1/50)	a non-complia	1.55 0.48			, or grey. The selection o
	"No" will illustrate Smax	a non-complia	Int position with BCBC Subsection			, or grey. The selection o
21:	"No" will illustrate Smax HWP (1/50)	a non-complia oad (kPa)	1.55 0.48			, or grey. The selection o
2	"No" will illustrate Smax HWP (1/50) Specified Snow Lo	a non-complia oad (kPa)	1.55 0.48 1.555	19.23.13, and if so revise your design or set	ek a Relaxation, Trade-Off or Exemption.	or grey. The selection o
3	"No" will illustrate Smax HWP (1/50) Specified Snow Lo Part 9 Compliance	a non-complia oad (kPa) <u>e Path</u>	1.55 0.48	19.23.13, and if so revise your design or set	ek a Relaxation, Trade-Off or Exemption.	or grey. The selection o
3	*No* will illustrate Smax HWP (1/50) Specified Snow Lo Part 9 Compliance Yes U Yes	a non-complia oad (kPa) a Path No No	1.55 0.48 1.55 Building is no greater than	9.23.13, and if so revise your design or set	ek a Relaxation, Trade-Off or Exemption. Code Clause Div A 1.3.3.3	or grey. The selection o
0	*No* will illustrate Smax HWP (1/50) Specified Snow Lo Part 9 Compliance Yes	a non-complia oad (kPa)	1.55 0.48 1.55 Building is no greater than	19.23.13, and if so revise your design or set	ek a Relaxation, Trade-Off or Exemption.	or grey. The selection o

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	through t Make sel	klist can t he checkli ections on	st from top Iy in the ch	to botto	om. es in colum	Part 9 Bracino ns C, D E and CBC Subsection	F, with only or	ne selecti	on in ea	ch row. C	Ince con	nplete, a	II secti	ons wi	li be e	ither gr	een, or				
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-	_	Yes	No		Building i	s no greater th	an 600m2 in b	wilding a	rea		_	_	Div	A 1.3	3.3		1				l
			17																		
	_	Yes	No D		Building is	s Group C, D, I	E, F2 and/or F	3 major (occupar	cy			Div	A 1.3	3.3	1					
		Yes Ves Yes	Nº D			s Group C, D, I s no greater the				cy				A 1.3							
	Section 9	Yes Yes Yes								cy			Div		3.3						
	Section 9	Yes Yes Yes	No		Building is All, floor a		an 3 storeys ir are generally	n building	ed of lu	nber fran	nes of sr	nall	Div	A 1.3	3.3 use						

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•	JR TRUE					
8	c	Ð	E	F G	н	
		Yes	No	Building is no greater than 3 storeys in building height	Div A 1.3.3.3	
	Section 9	.23 Comp	liance Path		Code Clause	
		Yes	No	All, floor and roof planes are generally comprised of lumber frames of small	9:23.1.1.(1)(a)	
				repetitive structural members, or engineered components		1
	1000	Yes	No	Roof and wall planes are clad, sheathed or braced on at least one side	9.23.1.1.(1)(b)	
				They and wan planta are use, subarried of proces of at least one are	0.20.111.(1)(0)	
		Yes	No	Wood-framed constructions do not serve as foundations	9.23.1.1.(1)(c)	
				Mood Ramed Constructions do not serve as roundations	3.23.1.1.(1)(6)	
	1000	Yes	No	The specified live load on supported subfloors and floor framing does not exceed	0.22.4.4./4//4/	-
			0	2.4kPa	9.23.1.1.(1)(d)	
	1000	Yes	No			
_				The span of any structural member does not exceed 40' (12.20m)	9.23.1.1.(1)(e)	-
	Subsection	on 9.23.13	Compliance	Path (Complete Path 1 or Path 2)	Code Clause	
ū	1904. 1	Fats 4 - 3	ing boost of	a mugat	9.23.13.1	
		(#	*	árvar(©)€: algesta za 184) a tiškan v s grévit tum tiž	9.23.13.1.(1) 9.23.13.11.(1)(a)	

	t & TRUE	100%	- 5	% .0 _e .	.00 123 Defaul • - 11 + B I ⊕ A ↔ ⊞ 34	표· 추· 폐· 스· 여	田回マ園・Σ
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	Subsect	ion 9.23.1	3 Complian	nce Path	(Complete Path 1 or Path 2)	Code Clause	
	Nos	Pale 1	Smulfiou	Approve		9.23.13.1	
		Yex	Np D		Steak (Q) it not groupe than 0.47 and the group and group than 0.47	9.23.13.1.(1) 9.23.13.11.(1)(a)	
		1194	Np.		KWP 1950) on aut growing them to date?	9.23.13.1.(1) 9.23.13.11.(1)(b)	
		Yes	No E		Spaceting warm load of the grander than 2 14 Se	9.23.11.(1)(c) 9.4.2.2	
		Yes	Nç.		Eviland operation was a conclusion of 21 (21 (25))	9.23.13.11.(1)(d)	
		V(8.5	No E		Τοιτρία Β.Είτωμα	9.23.13.11.(1)(e)	
		Yies	*		E.(VAH0-Ruga caleh mening caler in an 5-111 (ap.)	9.23.13.11.(1)(f)	
		Yina L	40		Parines are reasonaged you appoint the stand from the date	9.23.13.11.(1)(g)	
		Ves.	140		All Ben mane carnon marchest en genoped	9.23.13.11.(1)(h)	

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		**	2	A. Gradi	, and show that by show they	9.23.13.11.(1)(h)	
				Binnojud (المراجع المحمد	9,23.13.11.(1)(i)	
	N/A	Path 2 - 1	The Calcul	ation Method		9.23.13.2	
		Yes	Wa L	Smax is r	not greater than 2.6	9.23.13.2.(1)(c)	
	Ĩ	Yes	Ma T	HWP (1/5	50) not greater than 1.2kPa	9.23.13.2.(1)(b)	
	N/A	Yes	No		xterior wood-framed wall supports a roof and not more than 2 floors of Veight Construction	9.23.13.2.(1)(d)(i)	
	N/A	Viat E	No		xterior wood-framed wall supports a roof, and not more than 1 floor of; eight Construction, or Fully clad with Masonry or Stone Veneer	9.23.13.2.(1)(d)(ii)	
	440	•	Ligyshiaid	Na Jahrangan (Eka	musica and consection (9.23.13.10	
		*	*** []	Sec. 4 in a	real grander lands 8 Z	9.23,13.10.(1)(a)	
		* El	140	LWIS-CH	11) mil gronner insen 1 20 mil	9.23.13.10.(1)(b)	

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		- 10	No.	All Bands rim surficiency sheedard	9.23.13.11.(1)(h)	
_		Yee C	2	Brokspin, og opholesmigt Welsen. Geographie	9.23.13.11.(1)(i)	
	N/A	Path 2 - 1	he Calculation	Method	9.23.13.2	
		Yes	No.	Smax is not greater than 2.6	9.23.13.2.(1)(c)	
		Yes	<i>№</i> .	HWP (1/50) not greater than 1.2kPa	9.23.13.2.(1)(b)	
	ava.	Yes	No	Lowest exterior wood-framed wall supports a roof and not more than 2 floors of Normal Weight Construction	9.23.13.2.(1)(d)(i)	
	N/S		N¢	Loniast admitted theorem and incose a soot, and not more than A heat of Newly Weight Gaudresson, of Puty statistich Matancy of State Venes.	9.23.13.2.(1)(d)(ii)	
٥	144. 	e do vona	System Commi	erations (Exemptions and Type-Citis)	9.23.13.10	
		~ 5	No.	Simus is not present than 1.2	9.23.13.10.(1)(a)	
		v.	N0 []	NWR (1631) out a contra town 1 2005	9.23.13.10.(1)(b)	

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2	The Part	9 Lateral (Bracing R	lules		Rule Code Clause	Relaxation or Trade-Off Code Clause
3	Band Rul	es				9.23.13.4	
-	I Second State	Yes	No		Provide second that he define	0.00.40.4444	
					Bands surround the building	9.23.13.4.(1)(a)	
		Yes	No	100	Bands are full storey height	9.23.13.4.(1)(b)	
					bundo di o fuir diore y filorgiti	0.20.10.1.(1)(0)	
		Yes	No		Bands are maximum 4' (1.2m) wide	9.23.13.4.(1)(c)	
	_		0				
		Yes	No		Bands fully lap with Bands at each end	9.23.13.4.(1)(d)	
	N/A	Yes	No	RorT			
					Bands align on storeys above and below	9.23.13.4.(1)(e)	9.23.13.5.(2)(b) 9.23.13.10.(5), (6) and (7
		Ves	No	RorT		12.000	9.23.13.5.(2)(b)
	1				Bands are spaced maximum 34" 9" (10.6m) on center	T-9.23.13.5	9.23.13.6.(3)
	N/A	Yes	No			0.00.00	
				-	Bands are located at changes in floor elevation greater than one floor joist	9.23.13.4.(2)	
						9.23.13.5 (3)	

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	The Part	9 Lateral I	Bracing R	tules		Rule Code Clause	Relaxation or Trade-Off Code Clause
	Band Rule	05				9.23.13.4	
		Yes	No		Bands surround the building	9.23.13.4.(1)(a)	
		Yes	No		Bands are full storey height	9.23.13.4.(1)(b)	
		Yes	No		Bands are maximum 4' (1.2m) wide	9.23.13.4.(1)(c)	
		Yes	No		Bands fully lap with Bands at each end	9.23.13.4.(1)(d)	
	N/A	Yes	No	R or T	Bands align on storeys above and below	9.23.13.4.(1)(e)	9.23.13.5.(2)(b) 9.23.13.10.(5), (6) and (7
		Yes	No	R or T	Bands are spaced maximum 34° 9° (10.6m) on center	T-9.23.13.5	9.23.13.5.(2)(b) 9.23.13.6.(3)
	N/A	Yes	No		Bands are located at changes in floor elevation greater than one floor joist	9.23,13.4.(2)	
	-	1.0	200			9.23.13.5.(3)	

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	The P	Part 9 (ateral	Brac	ing Ru	ules													B	ile Co	de Cla	use			ation c Clause	or Trade	-Off
Ø	Band	Rules	8																9.3	23.13.	4						
1			Yes		No			Bands su	round U	he build	ding								9.3	23.13.	4.(1)(a).	1				
			Yes	11	No			Bands an	full sto	rey heig	ght								9.3	23.13.4	4.(1)(b).					
			Yes		vo			Bands an	maxim	um 4' (1.2m)	wide							9.3	23.13.	4.(1)(c)					
			Yes		No I			Bands ful	y lap wi	th Band	ds at e	each en	ıd						9.3	23.13.4	4.(1)(d)					
		-	Ē		10 			P (2)	1¢ 3			and box	10						9.3	23.13.	4.(1)(e)			3.5.(2 3.10.(2)(b) (5), (6) a	ind (7
			Yes		1 6			Bands an	spaced	d maxin	num 3	4' 9" (1	0.6m) d	on cen	ter				T-	9.23.1	3.5				3.5.(2 3.6.(3		
	N/A		Yes		No			Bands an	located	d at cha	anges	in floor	elevati	ion gre	ater th	an one	floor je	bist	9.3	23.13.	4.(2)						
	0.	1	-		\$e.				Wêriel	1				-		0.003	6.8			23.13.	5 (3)						

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	Band Rul	es				9.23.13.4	
-		Yes	No				
					Bands surround the building	9.23.13.4.(1)(a)	
		Yes	No		Bands are full storey height	0 22 42 4 (4)(5)	
					Danus are run storey neight	9.23.13.4.(1)(b)	
		Yes	No		Bands are maximum 4' (1.2m) wide	9.23.13.4.(1)(c)	
					Danus are maximum 4 (12m) wide	3.23.13.4.(1)(c)	
		Yes	No		Bands fully lap with Bands at each end	9.23.13.4.(1)(d)	
						0.00.10.441.401	
	201		N85	9.V=	Sector agencies income interest and haven	9.23.13.4.(1)(e)	9.23.13.5.(2)(b)
	2	- (G)	_ D _	E.		sussion (1.00)	9.23.13.10.(5), (6) and (7
		Yes	No		Bands are spaced maximum 34' 9" (10.6m) on center	T-9.23.13.5	9.23.13.5.(2)(b)
				E.		Constant -	9.23.13.6.(3)
	N/A	Yes	No		Bands are located at changes in floor elevation greater than one floor joist	9.23.13.4.(2)	
				_	a filmen ale na come e presenta presenta contra da la serie de	Serie a Dara	
	115		110-		Surray WSP Still Threads, increased the Leirest National Community	9.23.13.5.(3)	
	107	_6_		_	- ⁴ 11, 1	a second second	
	N/A		No		Bands in Basements/Crawlspaces are located beneath all wood-based Bands	9.23.13.6.(3)(b)	
		daily a			above	1 100 100 100 100 100	

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	Band Ru	les				9.23.13.4	
-		Yes	No	The second	Bands surround the building	9.23.13.4.(1)(a)	
					bands surround the building	9.23.13.4.(1)(a)	-
		Yes	No		Bands are full storey height	9.23.13.4.(1)(b)	
					Danus are full storey height	6.23.13.4.(1)(b)	
		Yes	No		Bands are maximum 4' (1.2m) wide	9.23.13.4.(1)(c)	
					Contras die missimum a (rasm) mae	5.20.10.4.(1)(0)	
		Yes	No		Bands fully lap with Bands at each end	9.23.13.4.(1)(d)	
						0.20.10.4(1)(0)	
	₩/A	205	No	R. 01	Bernis when on share in words and before	9.23.13.4.(1)(e)	9.23.13.5.(2)(b)
	141	Ē.				aires (a. 14) (Ae)	9.23.13.10.(5), (6) and (7
		Yes	No	RoyT	Bands are spaced maximum 34' 9" (10.6m) on center	T-9.23.13.5	9.23.13.5.(2)(b)
						1020.90	9.23.13.6.(3)
	92M	195	180		Barita la Fronet a statiga y teritaka keun paeta Karra di Barya	9.23.13.4.(2)	
	2	6		-		and and the	
	N/A	-7/64	00		Burrow of 1137-15 and emopy, interanana mataria rol huming, at ta	9.23.13.5.(3)	
	121			and the second division of the	chord	1.7607610111	
	h//A	-Yes-	No:		Earlie in Breamanin/Chinicoapet and rocand contrain all accordance)	9.23.13.6.(3)(b)	
	1				about	the second second	

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•	ç	(D.)	5	P	- Ti	, A	
	Panel Ru	les		_		9.23.13.5	
		Yes	No		Panels are located in Bands	9.23.13.5.(1)(a)	
		Yes	No		Panels laterally supported at top and bottom	9.23.13.5.(1)(b)	
		Yes	No		Panels extend from the top of the supporting footing, slab or subfloor to the underside of the floor, ceiling or roof framing above	9.23.13.5.(1)(c)	
	N/A	Yes	No	R or T	Wood-based Panels are a minimum of 24* (0.5m) length when, at the end of a Band, and connected to another Panel in another Band	T-9.23.13.5	9.23.13.10.(8)
	N/A	Yes	No	R or T	Wood-based Panels are a minimum of 30" (0.75m) in length when not connected to another Panel	T-9.23.13.5	9.23.13.10.(8)
	N/A	Yes	No		Gypsum-based Panels are a minimum of 4' (1.2m) in length	T-9.23.13.5	
		Yes	No		Panels are a maximum 10' (3.1m) in unsupported height	9.23.13.1.(1)(c) 9.23.13.1.(2)(a)	
		Yes	No	-	There is a maximum of 21' (6.4m) between adjacent Panel edges in the same Band	T-9.23.13.5	9.23.13.10.(8)
		Yes	No	_	Panel leading edges are positioned within 8' (2.4m) of end of Band	T-9.23.13.5	

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2	Panel Ru	les				9.23.13.5	
		Yes	No		Panels are located in Bands	9.23.13.5.(1)(a)	
					Parleis are located in bands	5.23.13.3(1)(a)	
		Yes	No		Panels laterally supported at top and bottom	9.23.13.5.(1)(b)	
	-			_		0.20.10.0.(1)(0)	
		Yes	No		Panels extend from the top of the supporting footing, slab or subfloor to the	9.23.13.5.(1)(c)	
	-				underside of the floor, ceiling or roof framing above	0.20.10.01 1/01	
	N/A	Yes	No	RorT	Wood-based Panels are a minimum of 24* (0.6m) length when, at the end of a	T-9.23.13.5	9.23.13.10.(8)
					Band, and connected to another Panel in another Band	1-0.20.10.0	0.20.10.10.00
	N/A	Yes	No	RorT	Wood-based Panels are a minimum of 30* (0.75m) in length when not connected	T-9.23.13.5	9.23.13.10.(8)
					to another Panel	1 3.20.10.0	5.25.15.15.(6)
	1.7A	Yer ('No		General Paran are a communited if (1200) in anoth	T-9.23.13.5	
	2	D	Ū.	_			
		Yes	No		Panels are a maximum 10' (3.1m) in unsupported height	9.23.13.1.(1)(c)	
	_					9.23.13.1.(2)(a)	
		Yes	No	Rott	There is a maximum of 21' (6.4m) between adjacent Panel edges in the same	T-9.23.13.5	9.23.13.10.(8)
					Band		
		Yes	No		Panel leading edges are positioned within 8' (2.4m) of end of Band	T-9.23.13.5	
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			E		9.23.13.5.(3)
	Material	Selection F	Rules		9.23.13.6
-		Yes	No	Panels are designed with wood-based or gypsum-based pr	imary bracing: 0.33.13.6.(4)
				sheathing	9.23.13.6.(1)
	N/A	Yes	No	The most restrictive form is used in the Method of Calculati	14 23 13 B (5)
				Panel materials are used within the same Band (see details	3)
	N/A	Yes	No	Bands using wood-based Panels are supported by Bands u	using wood-based 9.23.13.6.(4)
				Panels	
	N/A	Yes	No	Panels in a Basement/Crawlspace are wood-based	9.23.13.6.(3)
					5.50.70.97
	N/A	Relaxatio	ns		Relaxation Code Clause
	N/A	Band Spa	cing Relax	tion	9.23.13.5.(2)(b) 9.23.13.6.(3)
		Yes	No	Foundation extends to underside of wood-framed floor at a	Il exterior walls 9.23.13.5.(2)
		Yes	No	Bands are spaced at a maximum of 49' 2" (15m) from perin	neter foundation walls, 0.22.12.5 (2Vb)
		11	n	interior foundation walls, or intermediate wood-based Band	

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_	3		D	chova	9.23.13.5.(3)		
	Material	Selection F	Rules		9.23.13.6		
		Yes	No	Panels are designed with wood-based or gypsum-based primary bracing	9.23.13.6.(1)		
	<u> </u>			sheathing	and and a second second		
		a	**	The project of the section of the term of the section of the weather and the Discontinue to the terms of the section of the s	9.23.13.6.(5)		
	1.00	Yes	No	Bernstilling - cool board Parent I are Ligoconed by Sunda - into incodesed			
	2	E.	Ö.	Paretti	9.23.13.6.(4)		
	\$9 <i>0</i> 0	115	No	Parala ina Brasmano Princasia dia solo punto	9.23.13.6.(3)		
	2		0				
	N/A	Relaxatio	ns		Relaxation Code Clause		
_		1	5				
	N/A	Band Spa	icing Relaxati	n	9.23.13.5.(2)(b) 9.23.13.6.(3)		
		Yes	No	Foundation extends to underside of wood-framed floor at all exterior walls	9.23.13.5.(2)		
		Yes	No	Bands are spaced at a maximum of 49' 2" (15m) from perimeter foundation walls, interior foundation walls, or intermediate wood-based Bands	9.23.13.5.(2)(b)		

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	N/A	Relaxati	ons										Relaxatio	Code C	ause				
	N/A	Band Sp	acing Rela	xation									9.23.13.5 9.23.13.6						
		Yes	No		Foundati	on extends to u	inderside i	of wood-fram	med floor a	at all exte	rior walls		9.23.13.5	(2)					
		Yes	No.			e spaced at a r bundation walls					loundation	walls,	9.23.13.5	(2)(b)					
		Yes	No		Amount	of bracing is at	least the s	ame as that	t on the Ba	and above	8	-	9.23.13.5	(2)(a)					
	N/A	70- 11-	hen L		1=	-	× 1	* 1			05		9.23.13.1	0(5)(d)					
0	N/A	Cripple	Walls Relax	ation	-														
		Yes	No		Cripple v	valls do not sup	port heavy	y weight con	nstruction,	masonry	or stone ve		9 23 13 8 9 23 13 8						
	N/A	<u>с</u>	No		Smax is and 19' 8	no greater than 3" (6m) long	0.60, and	cripple wal	lls are no g	reater th	an 4' (1.2m) high	9.23,13.8	(2)(a)(b)	-				
	N/A	Yes	No		Smax is and 16' \$	greater than 0.6 5° (5m) long	50, and cri	pple walls a	are no grea	ler than	1' 2" (0.35n	n) high	9.23.13.8	(3)(b) an	d (c)				

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	ie D			HWe (1/50) recommendation 1 2020	9.23.13.10.(1)(b)	
The Part	9 Lateral I	Bracing R	tules		Rule Code Clause	Relaxation or Trade-Off Code Clause
Band Ru	es				9.23.13.4	
	Yes	No		Bands surround the building	9.23.13.4.(1)(a)	
	Yes	No		Bands are full storey height	9.23.13.4.(1)(b)	
	Yes	No		Bands are maximum 4' (1.2m) wide	9.23.13.4.(1)(c)	
	Yes	No		Bands fully lap with Bands at each end	9.23.13.4.(1)(d)	
N/A	Yes	No	R or T	Bands align on storeys above and below	9.23.13.4.(1)(e)	9.23.13.5.(2)(b) 9.23.13.10.(5), (6) and (7
	Yes	No	R or T	Bands are spaced maximum 34" 9" (10.6m) on center	T-9.23.13.5	9.23.13.5.(2)(b) 9.23.13.6.(3)
	Nee.	Ma		Burot ano ocation phone ges in rook altreation of ence. It in our noor per-	9.23.13.4.(2)	

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	N/A	Relaxatio	ins		Relaxation Code Clause				
	N/A	Band Spi	acing Relaxa	tion	9.23.13.5.(2)(b) 9.23.13.6.(3)				
		Yes	No	Foundation extends to underside of wood-framed floor at all exterior walls	9.23.13.5.(2)				
		Yes	No	Bands are spaced at a maximum of 49' 2" (15m) from perimeter foundation walls, interior foundation walls, or intermediate wood-based Bands	9.23.13.5.(2)(b)				
		Yes	No	Amount of bracing is at least the same as that on the Band above	9.23.13.5.(2)(a)				
	N/A	6	0		9.23.13.10(5)(d)				
	N/A	Cripple V	Valls Relaxa	ion					
		Yes	No	Cripple walls do not support heavy weight construction, masonry or stone veneer	9.23.13.8.(2)(d) 9.23.13.8.(3)(a)				
	N/A		No	Smax is no greater than 0.60, and cripple walls are no greater than 4' (1.2m) high and 19' 8" (6m) long	9.23.13.8.(2)(a)(b)				
	N/A	Yes	No	Smax is greater than 0.60, and cripple walls are no greater than 1' 2" (0.35m) high	9.23.13.8.(3)(b) and (c)				

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	NUA 2	Fort in the	<u>1</u> 0			Relaxation Code Clause				
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		Year	No.		nos arenspaceo atla resismum of 49°2° (15m) (rom odomismi rotunción na ele, was foundàlión wale, or intermodiate west-traced Baron	9.23.13.5.(2)(b)				
		Yese	No.	<u>1</u> 017	iount of bracing is as wast for saver on the total on the Bland adove	9.23.13.5.(2)(a)				
	10A	Ysse	No.	Dia Un	lerm noten of Gana specting does not lake allo Account Banda portstructed for normal Store / Setsact West Trade-Cit	9.23.13.10(5)(d)				
	N/A	Cheble V	ini Relati	Ude						
		1998	No.	B h	polo - la caro support nucly unique continuation, mesonity of stand variable	9.23.13.8.(2)(d) 9.23.13.8.(3)(a)				
		Yss	No.		iak is no measur than 1,35, and cripple were are no gradier than N (1,2m) high 3 1518° (6m) long	9.23.13.8.(2)(a)(b)				
	NPA	Yes	No.	Şa	iše is grinistar that i la Sc. and pripolo walls are në pristant touri 1 27 (b 2515) nga	9.23.13.8.(3)(b) and (c)				

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	through t Make set	cklist can b the checklis lections on	st from top ly in the ch	to bottom. eckboxes i	columns C, D	Bracing Calculate E and F, with only ubsection 9.23.13	y one selectic	n in each row	v. Once cor	nplete, a	Il section	s will be	either gr	reen, or g				
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	N/A			onsiderations (Exemptions and Trade-Offs)		9.23.13.10				
		Yes	Ne C	Smax is not greater than 1.2		9.23.13.10.(1)(a)				
		Yes	- C	HWP (1/50) not greater than 1.2k	Pa	9.23.13.10.(1)(b)				
	The Par	Rule Code Clause	Relaxation or Trade-Off Code Clause							
	Band Ru	des			9.23.13.4					
		Yes	No	Bands surround the building		9.23.13.4.(T)(a)				
		Yes	No	Bands are full storey height		9.23.13.4.(1)(b)				
		Yes	No	Bands are maximum 4' (1.2m) wid	9.23.13.4.(1)(c)					

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~	N/A	Additiona	I System C	Considerations (Exemptions and Trade-Offs)	16.0	9	.23.13.10		
		Yes	tio E	Smax is not greater than 1.2		9	9.23.13.10.(1)(a)		
		Yes	No	HWP (1/50) not greater than 1.2kP	^o a	9	.23.13.10.(1)(b)		
			, В.,						
	The Part		Bracing Ru	les		E	Rule Code Clause	Relaxation or Code Clause	Trade-Off
	The Part Band Ru	9 Lateral		les			Rule Code Clause		Trade-Off
		9 Lateral		les Bands surround the building		9			Trade-Off
		9 Lateral les Yes	Bracing Ru No			9	.23.13.4		Trade-Off
		19 Lateral Les Yes Yes Yes	Bracing Ru	Bands surround the building	le	9	23.13.4 23.13.4.(1)(a)		Trade-Off

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	N/A	Exemptio	2019		Exemption Code Clause
	N/A	Garage f	Front Wall Exer	nption	9.23.13.10.(3)
		Yes	No	The attached garage serves a single dwelling unit	9.23.13.10.(3)
		Yes	No	The attached garage does not support a floor	9.23.13.10.(3)
	N/A	Detached	i Garage/Acce	ssory Building Exemption	
	N/A	Yes	No	The detached garage serves a single dwelling unit	9.23.13.10.(3)
	N/A	Yes	No	The detached accessory building serves a single dwelling unit	9.23.13.10.(3)
		Yes	No	The walls do not support a floor	9.23.13.10.(3)
	N/A	Open/En	closed Space I	Exemption	
	-	Yes	No	Single open or enclosed space (porch, sunroom etc.)	9.23.13.10.(2)

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	N/A Trade-Offs												Tras	de-Off	Code	Clause					
	N/A	Garage Door Trade-Off											9.23.13.10.(4)								
		Yes	No		The distance 11" (7.6m)	from the fr	ront to th	ie back w	vall of the	garage	is not gr	eater th	nan 24'	9,23	3,13,1	0.(4)(a)				
		Yes	No		The garage :	upports no	ot more ti	han 1 flo	or					9.23	3,13,1	0.(4)(b	ņ				
		Yes No 50% of back wall and 25% of each side wall is constructed with wood-based Panels								sod	9.23,13.10.(4)(c) and (d)										
	N/A	Uppermost Storey Setback Wall Trade-Off									9.23	3,13,1	0.(5), (6) and	(7)						
•		Yes No Only 1 upper most wall in each orthogonal direction is set back beyond the maximum width of the exterior Band							9.23.13.10.(5)												
		Yes No Adjacent interior Band of the storey below the setback wall is spaced not more than 34' 9" (10.6m) from the exterior wall of the storey below the setback wall Yes No Adjacent interior Band of the storey below the setback wall is constructed with wood-based Panels.									9.23.13.(5)(a) 9.23.13.10.(5)(b)										
										with											
		Yes	No		Adjacent inte foundation	rior Band o	of the sto	prey below	w the set	back wa	II continu	ies to t	he	9.23	3,13,1	0.(5)(c)				

End/Questions:



Tim Warner Twarner@boabc.org

