Lunch & Learn
Part 9 Lateral Bracing – Digital Tools

12pm June 5th, 2025

Presenter: Tim Warner

Email: twarner@boabc.org

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

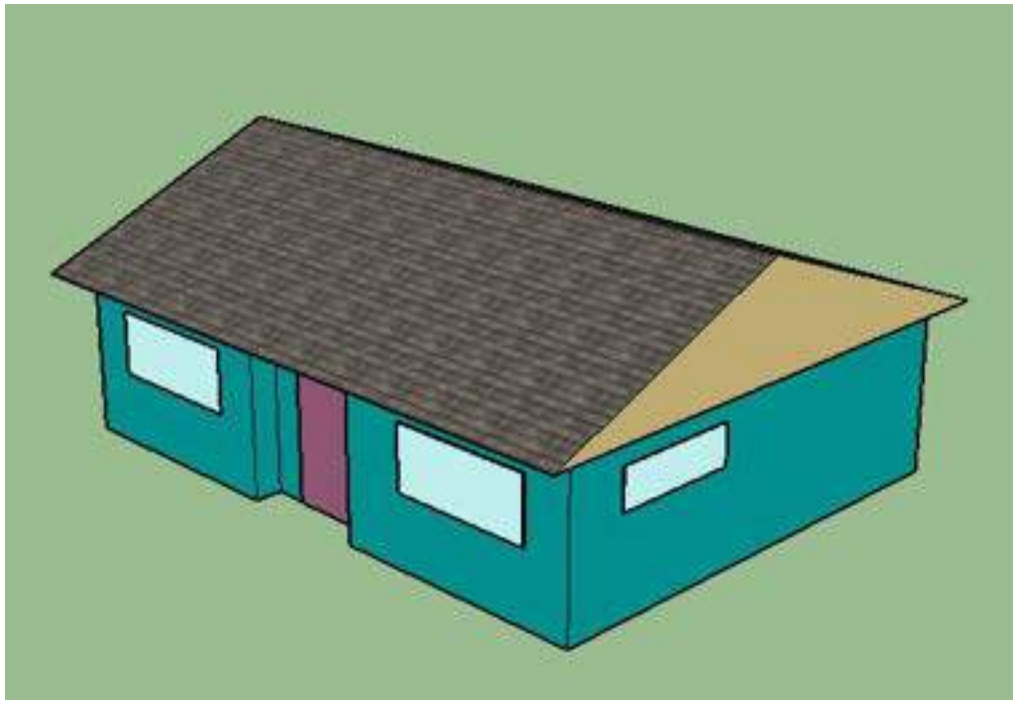
Welcome!

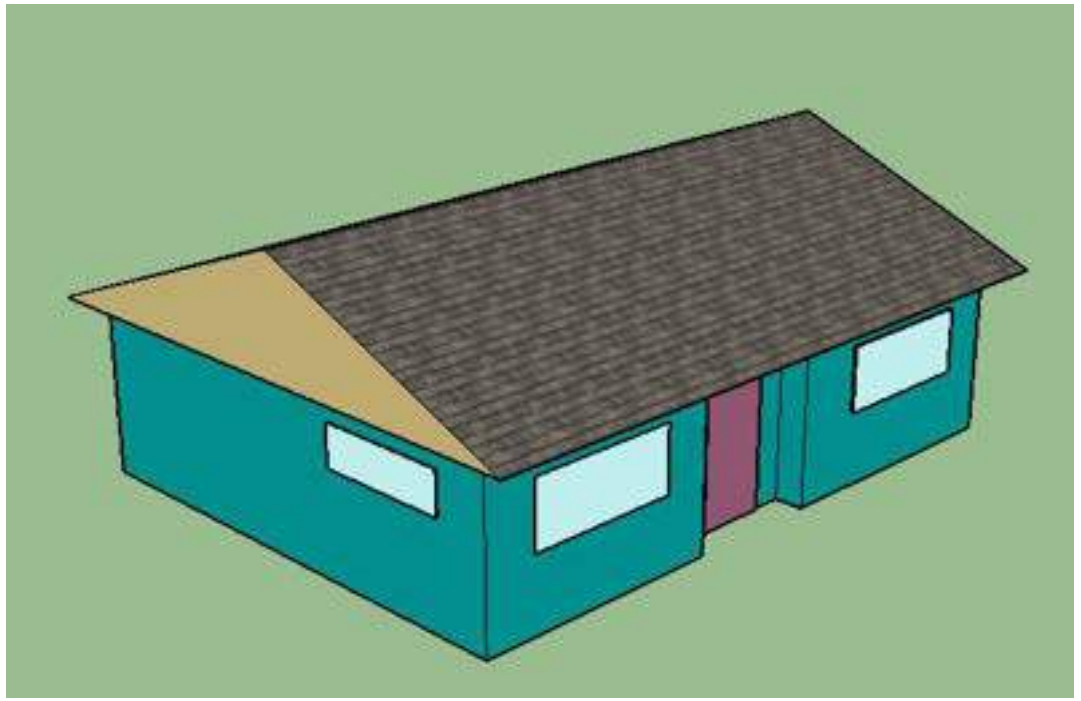
Today's Session:

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

Example House (Simple)

Overview

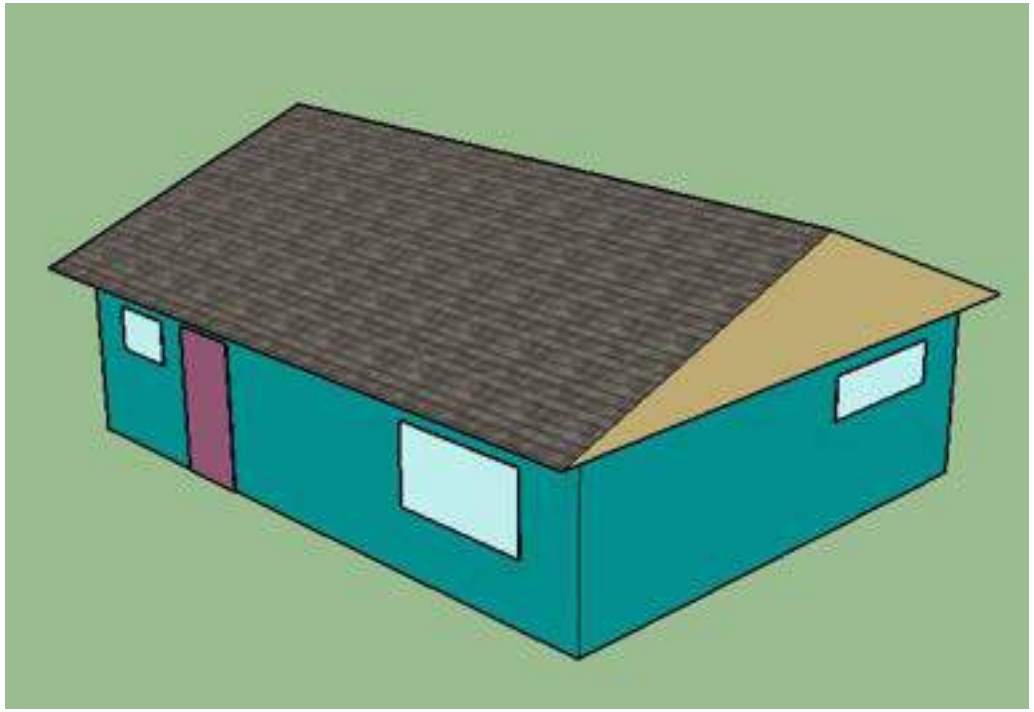


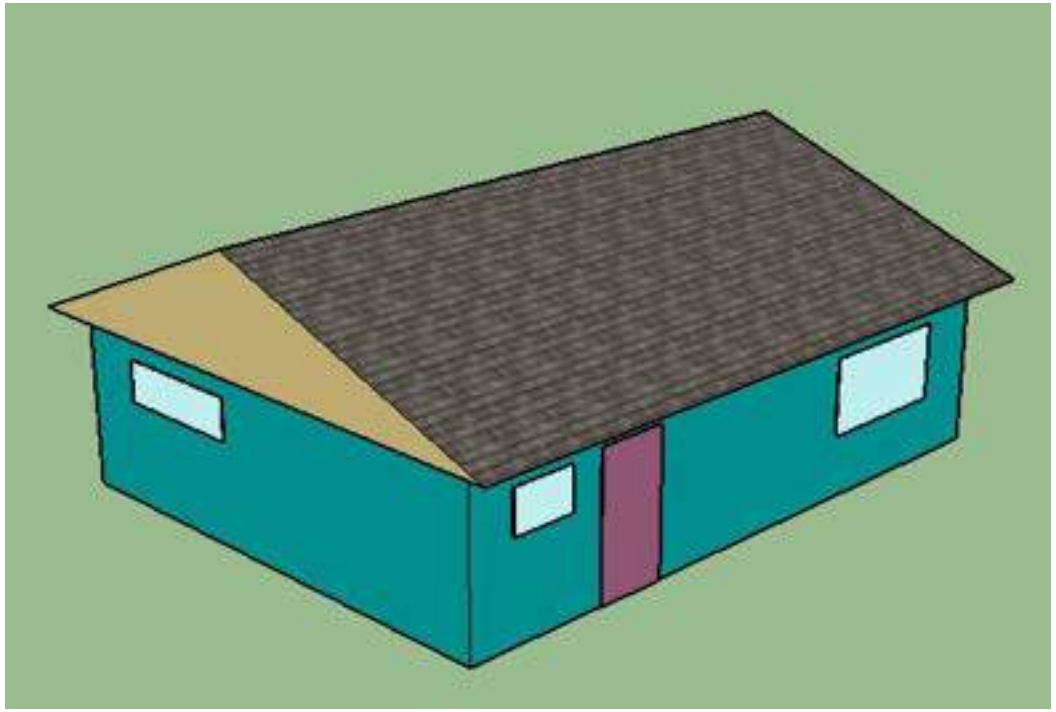


Front

Example House (Simple)

Overview



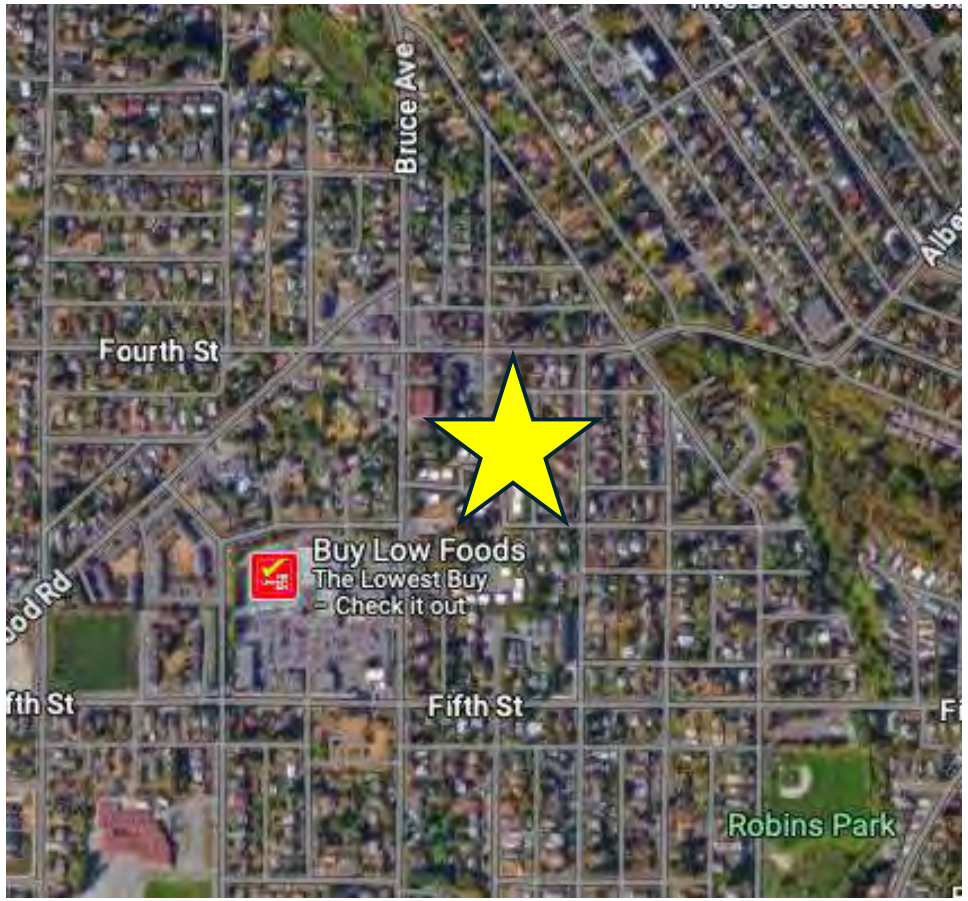


Back

Example House (Simple)

Understand the Site

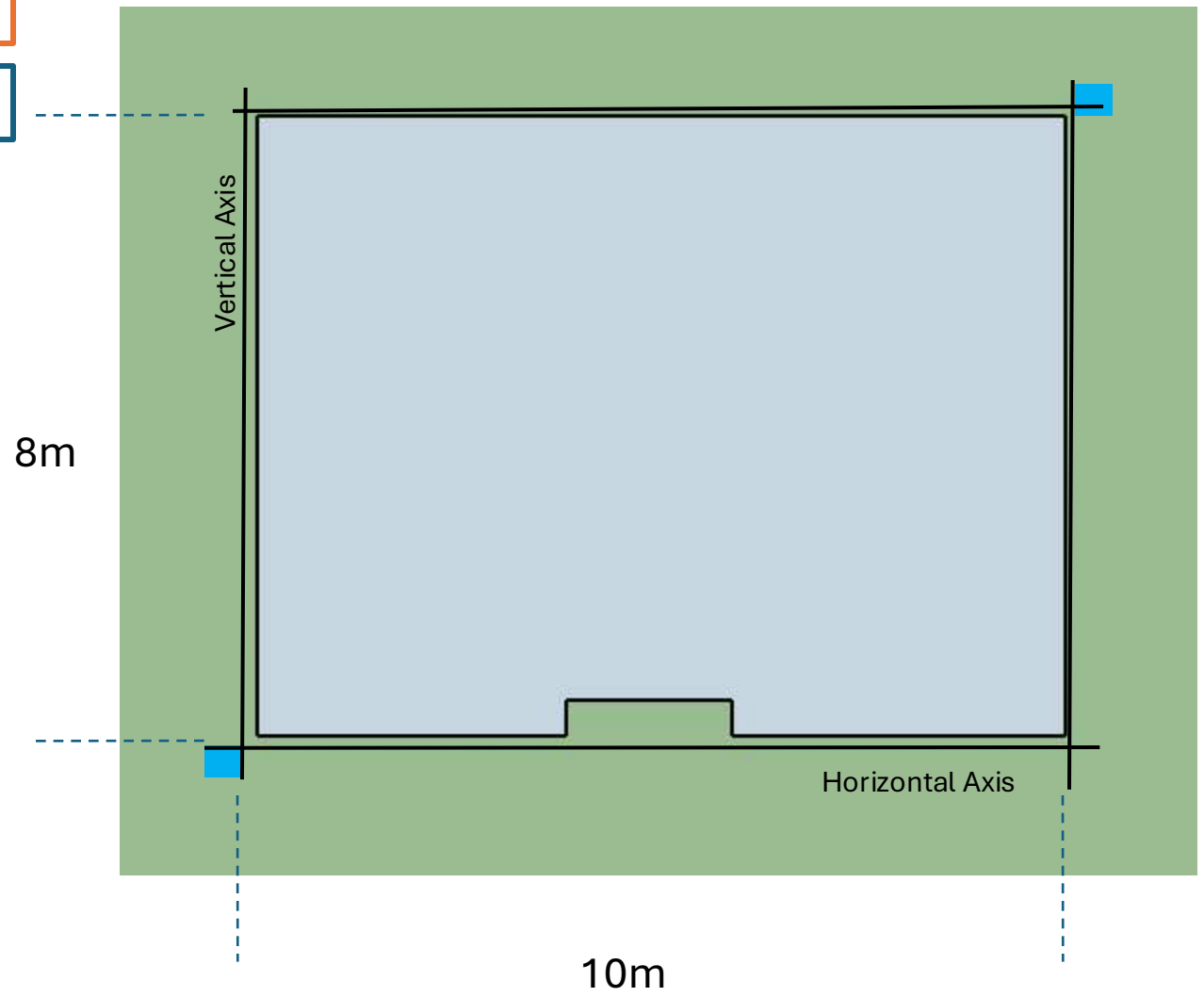
Location	Nanaimo
HWP (1/50)	0.48
Terrain	Rough
Site Class	Unknown
Smax	1.55
Roof Snow Load	1.555



Example House (Simple)

Understand the Building

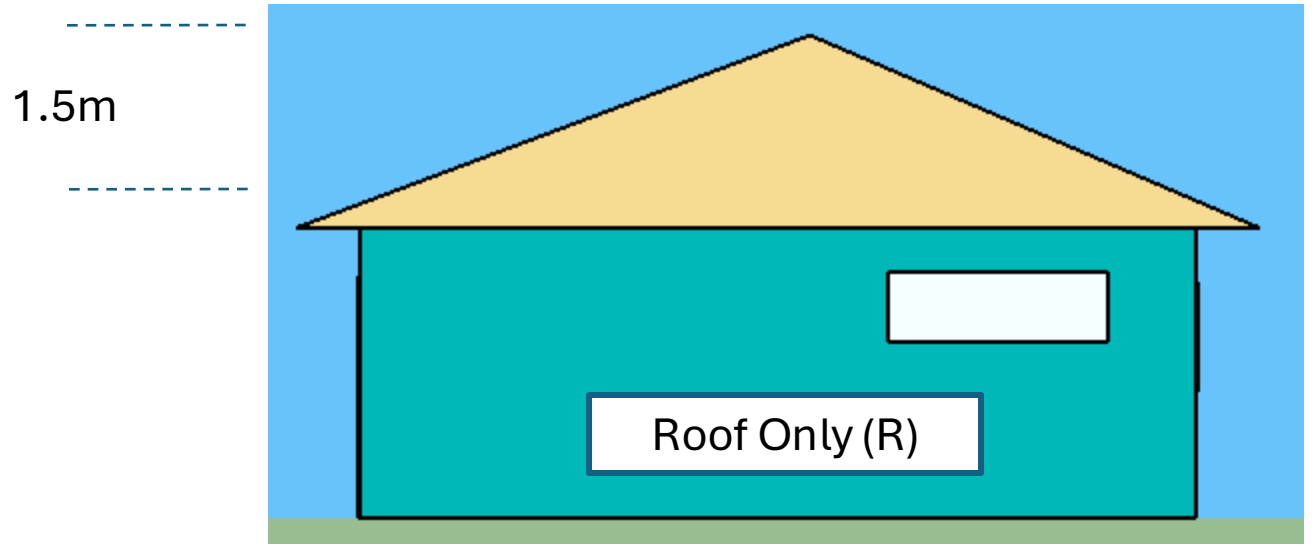
Building Plan Dimensions



Example House (Simple)

Understand the Building

Braced Storeys and Eave-to-Ridge Height



Example House (Simple)

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

Example House (Simple)

Understand the Braced Wall Band Plan

Band ID and Average Band Spacing

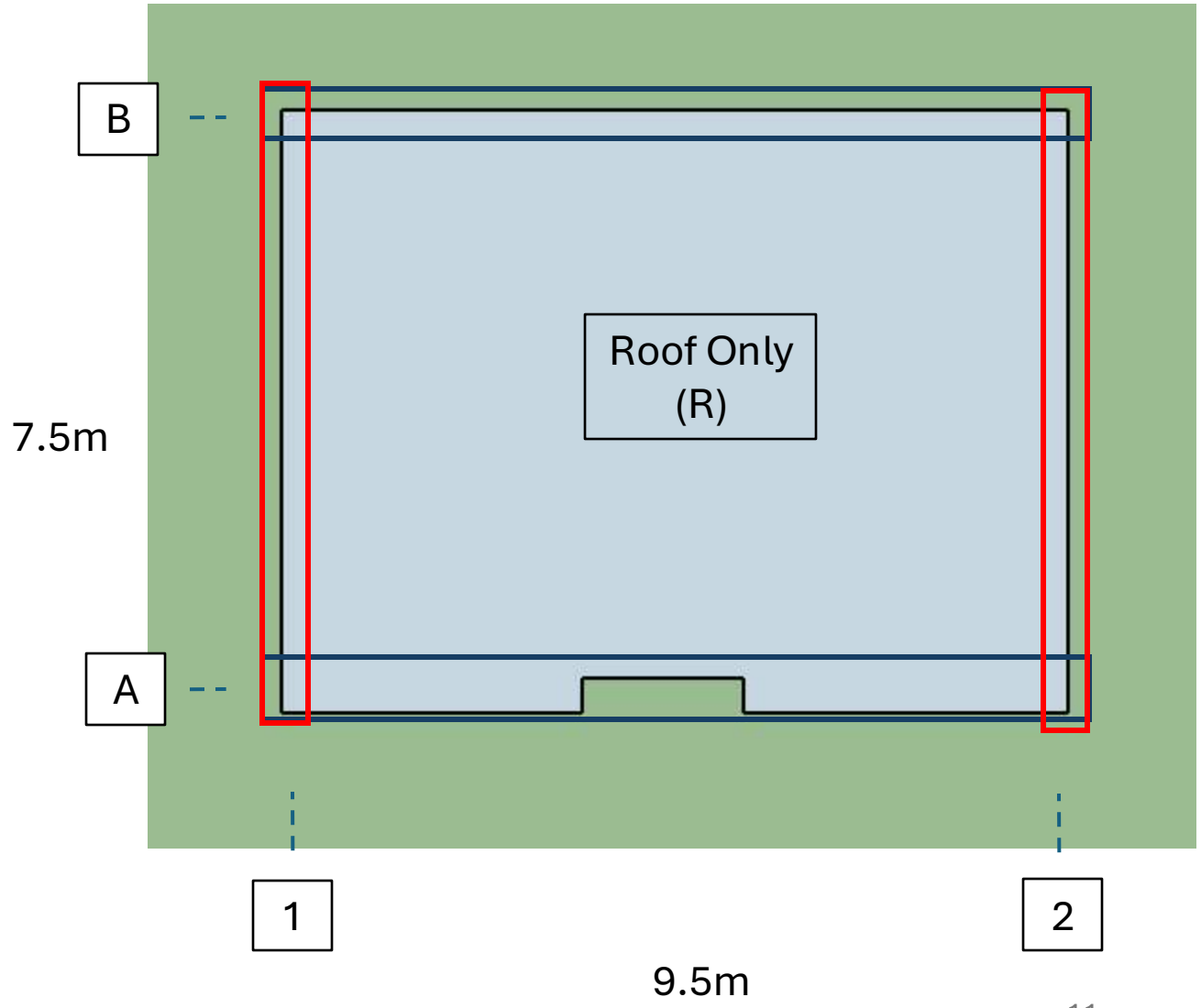
Storey supporting Roof Only (R)

Along Vertical Axis (Bands labelled A, B C…)

Distance between c/l furthest Bands: 7.5m
Number of Bands: 2
Number of Spacings: 1
Average Spacing: 7.5m

Along Horizontal Axis (Bands labelled 1, 2, 3…)

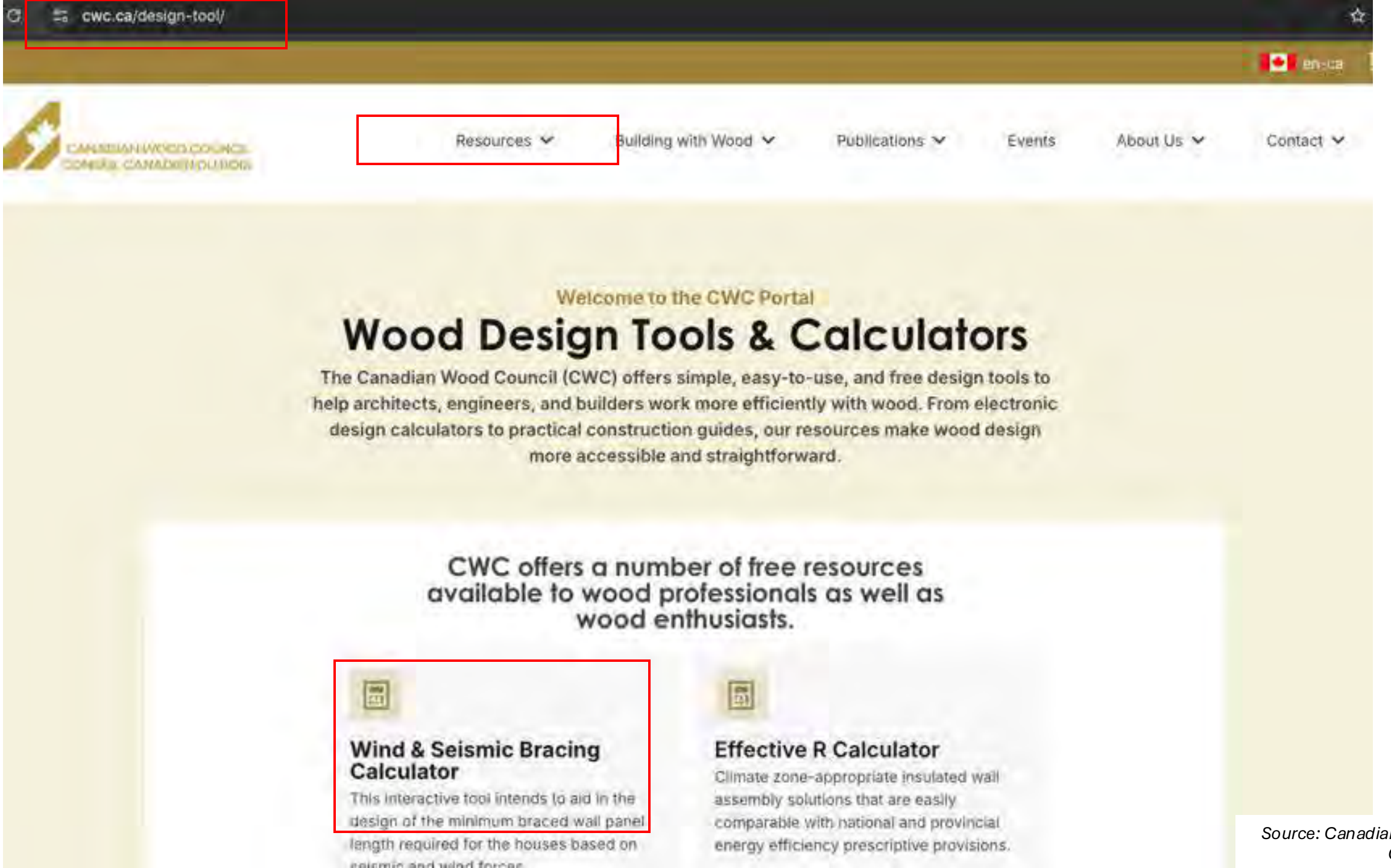
Distance between c/l furthest Bands: 9.5m
Number of Bands: 2
Number of Spacings: 1
Average Spacing: 9.5m



CWC Wind and Seismic Bracing Calculator

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

Source: Canadian Wood Council



Source: Canadian Wood Council

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

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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: $L_s = [C_{Sstorey} \times C_{walls} + C_{roof} \times S\,(= (C_b \times S_s + S_r) \div 1.5)] \times K_{Sframe} \times S_{max} \times K_{weight} \times K_{spacing} \times K_{Snumber} \times K_{gyp} \times K_{sheath}$

Wind: $L_w = C_{Wstorey} \times K_{Wframe} \times RHWP \times K_{exp} \times K_{roof} \times K_{Wspacing} \times K_{Wnumber} \times K_{gyp} \times K_{sheath}$

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

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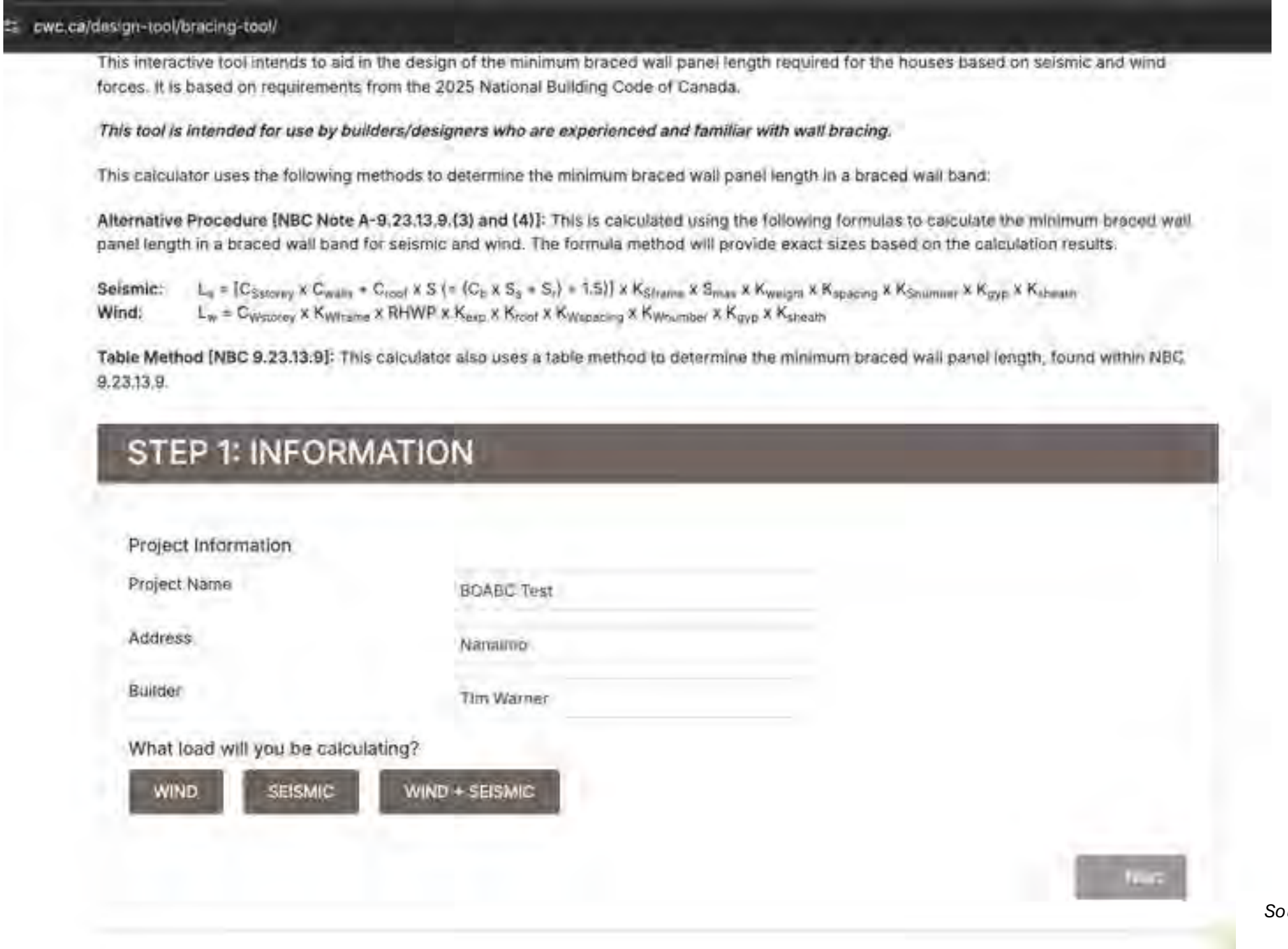

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STEP 1: INFORMATION

Project Information

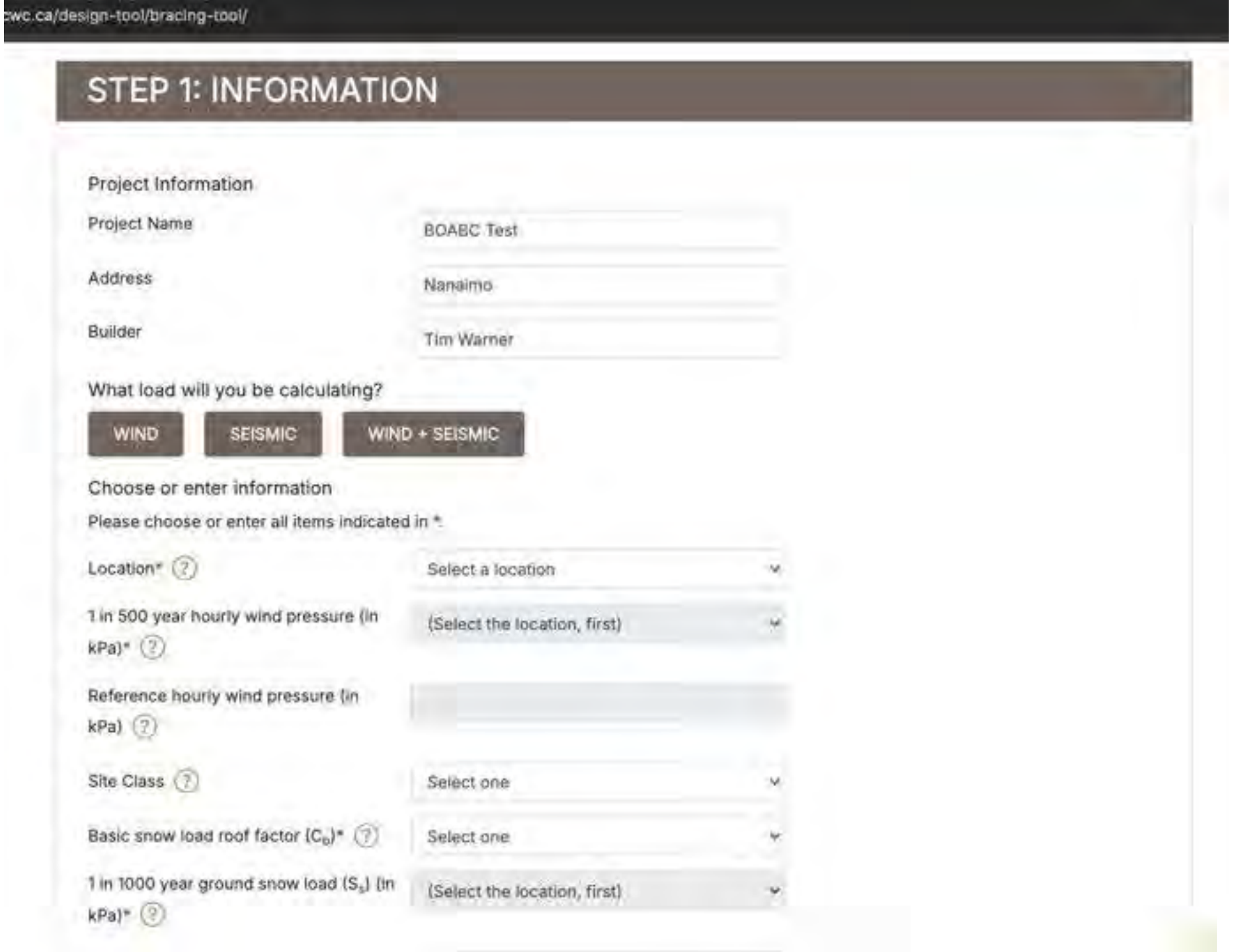
Project Name	BOABC Test
Address	Nanaimo
Builder	Tim Warner

What load will you be calculating?

WIND | SEISMIC | WIND + SEISMIC

Next

Source: Canadian Wood Council



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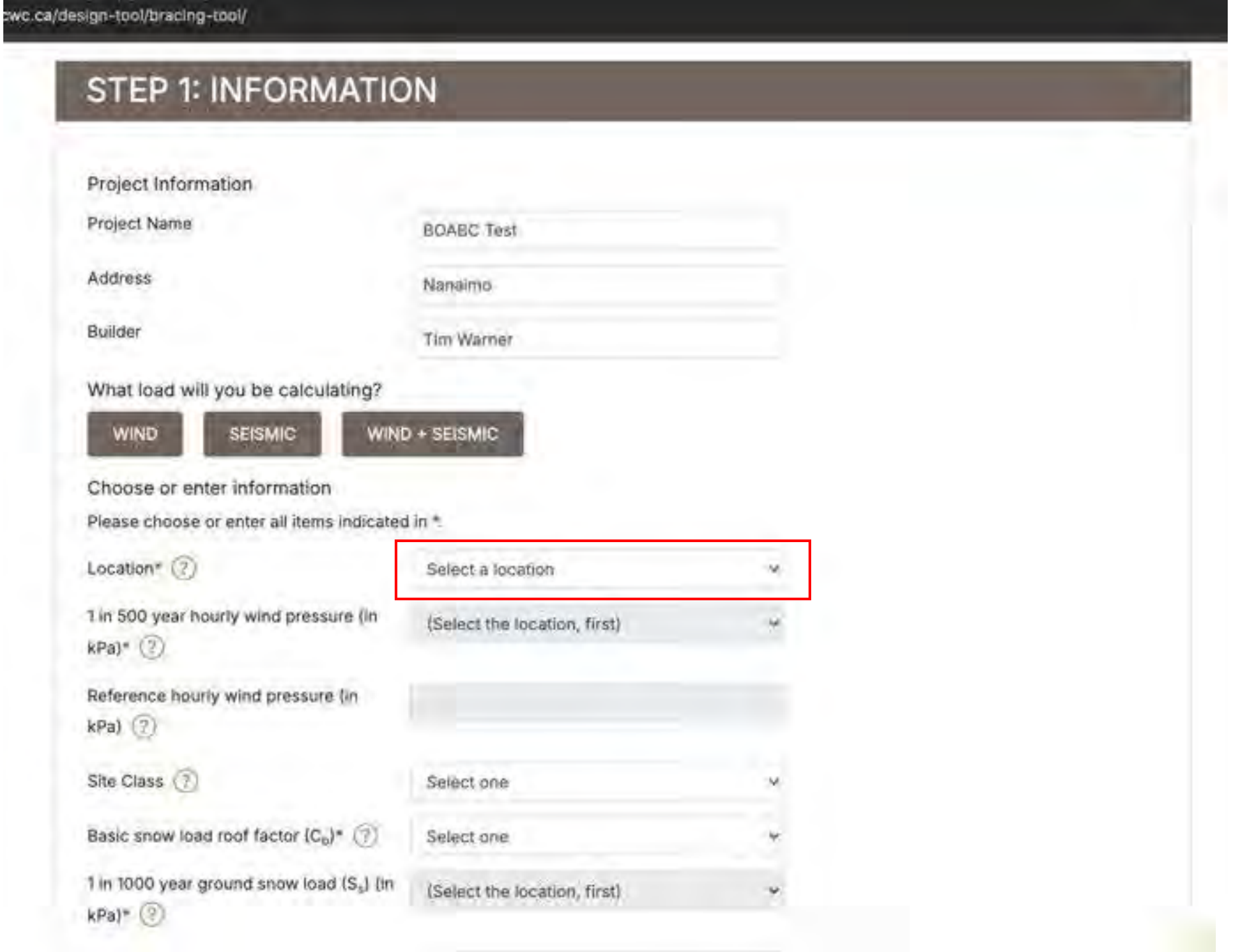

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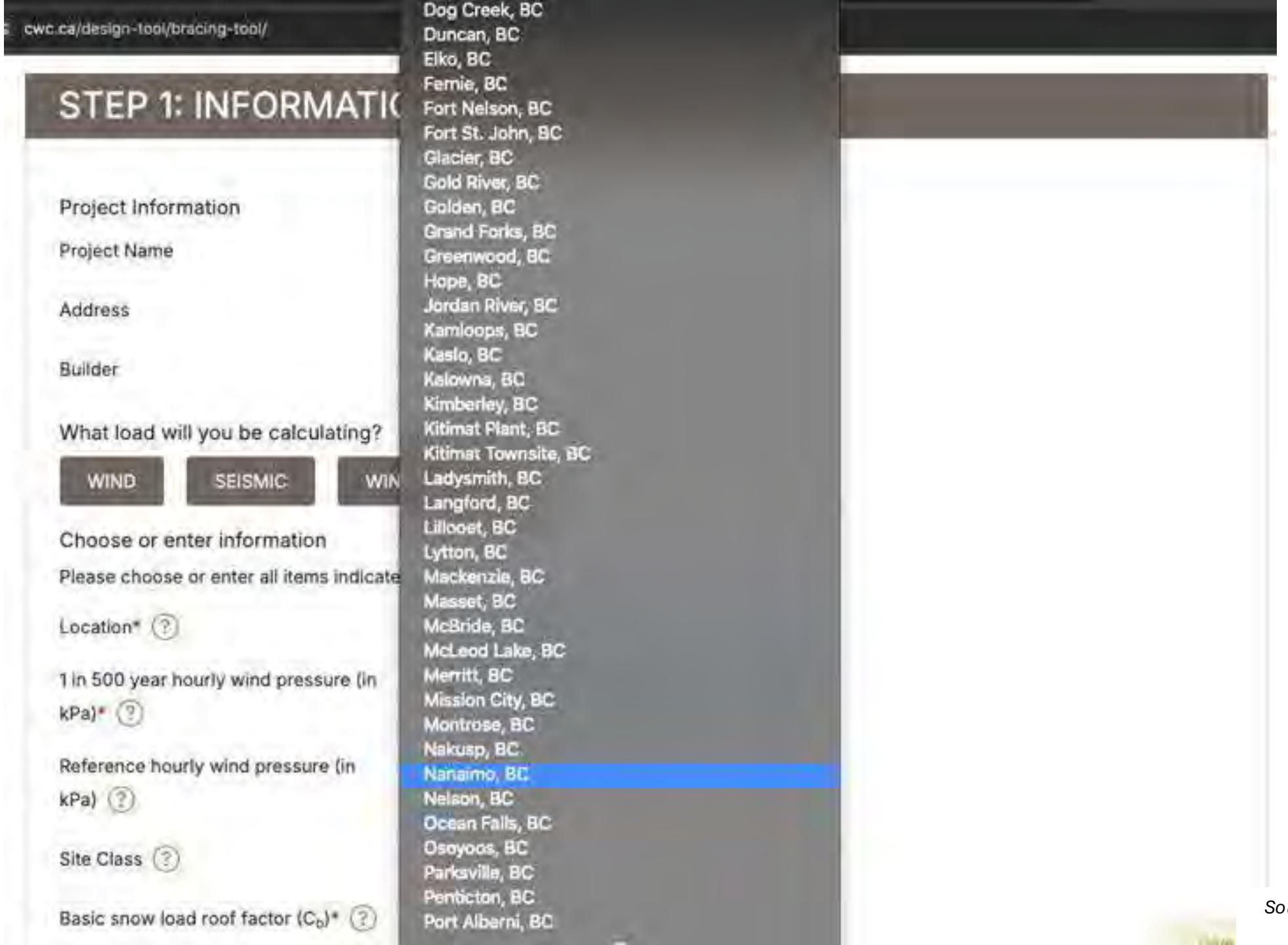

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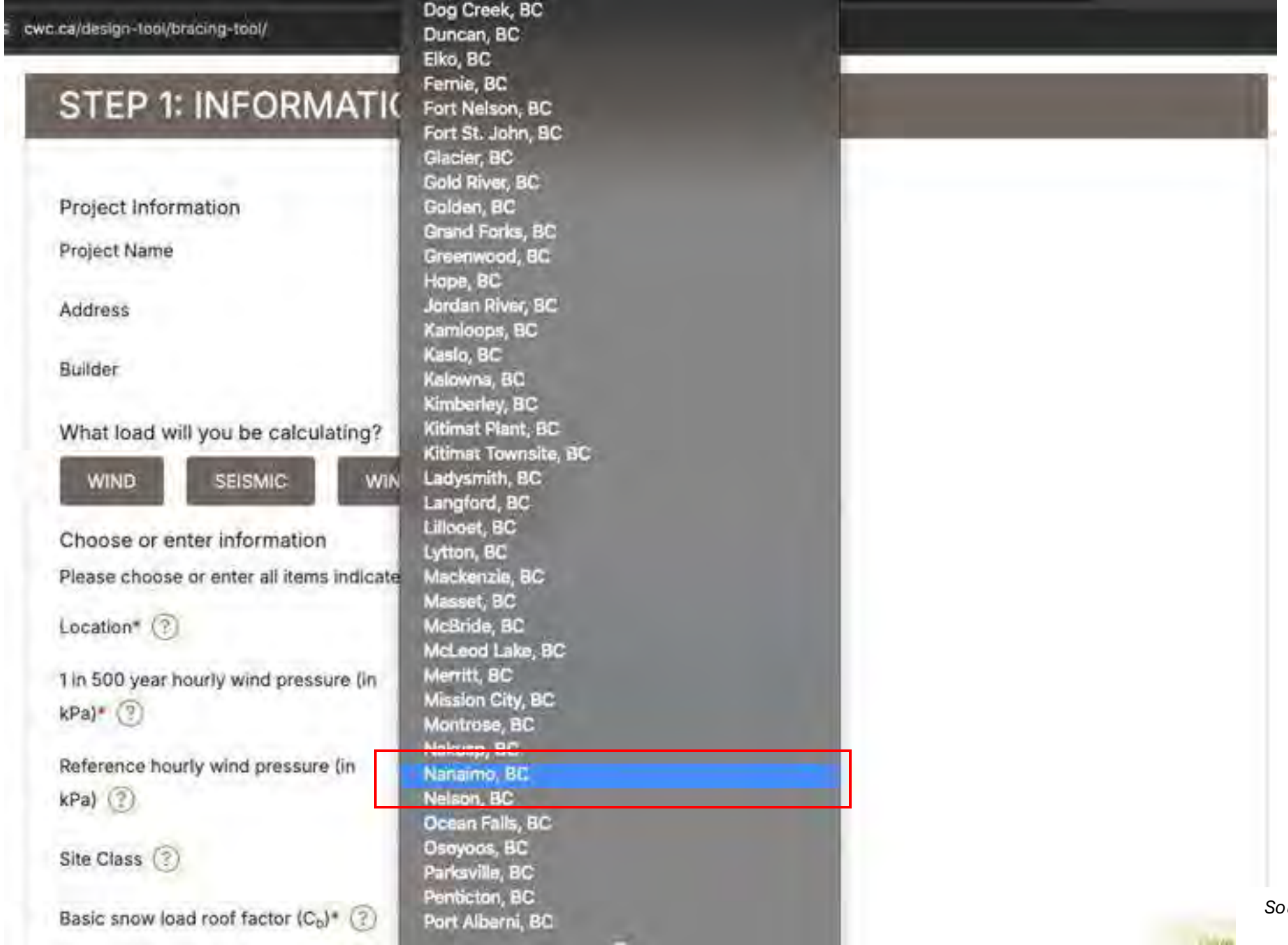

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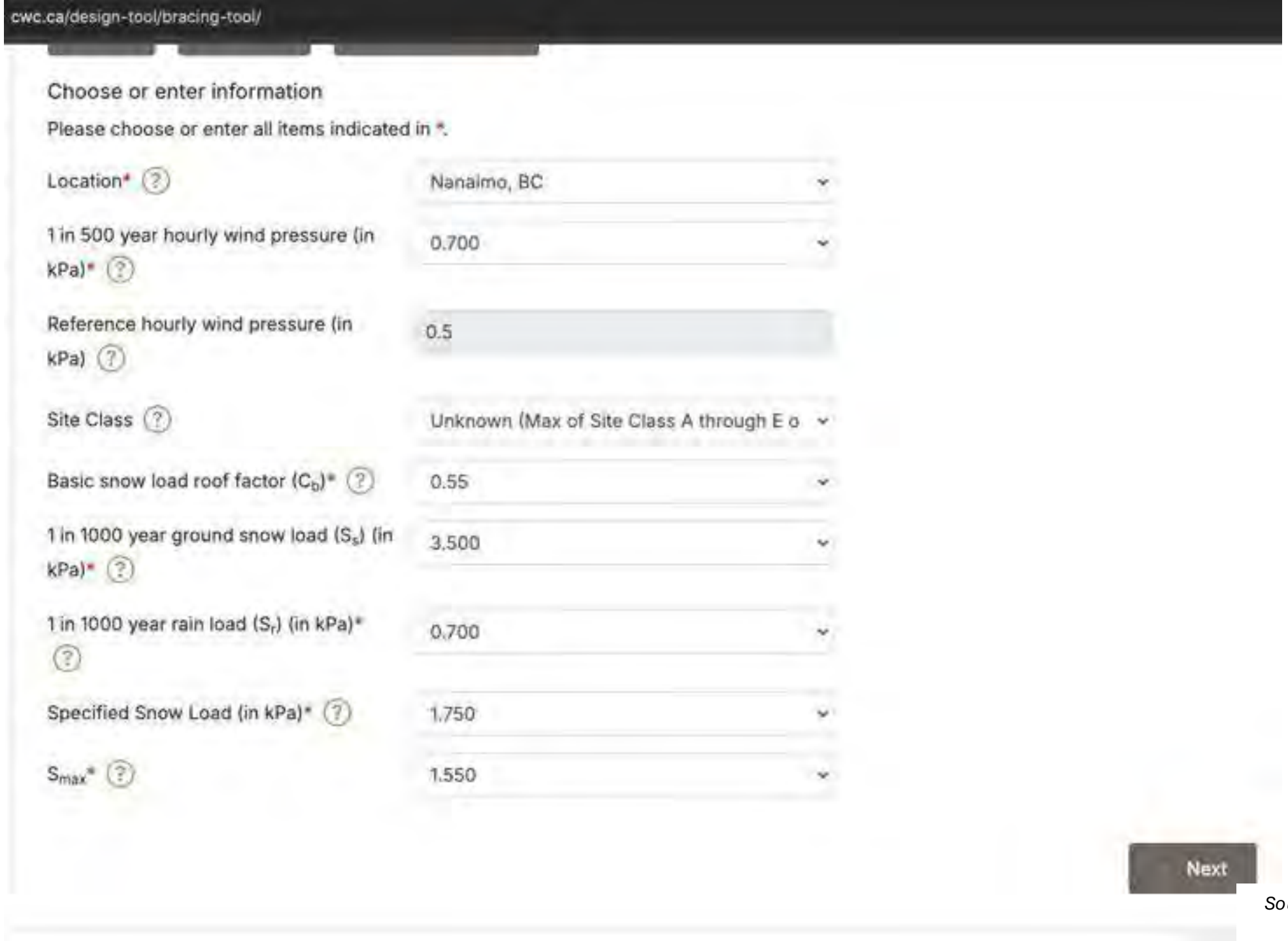

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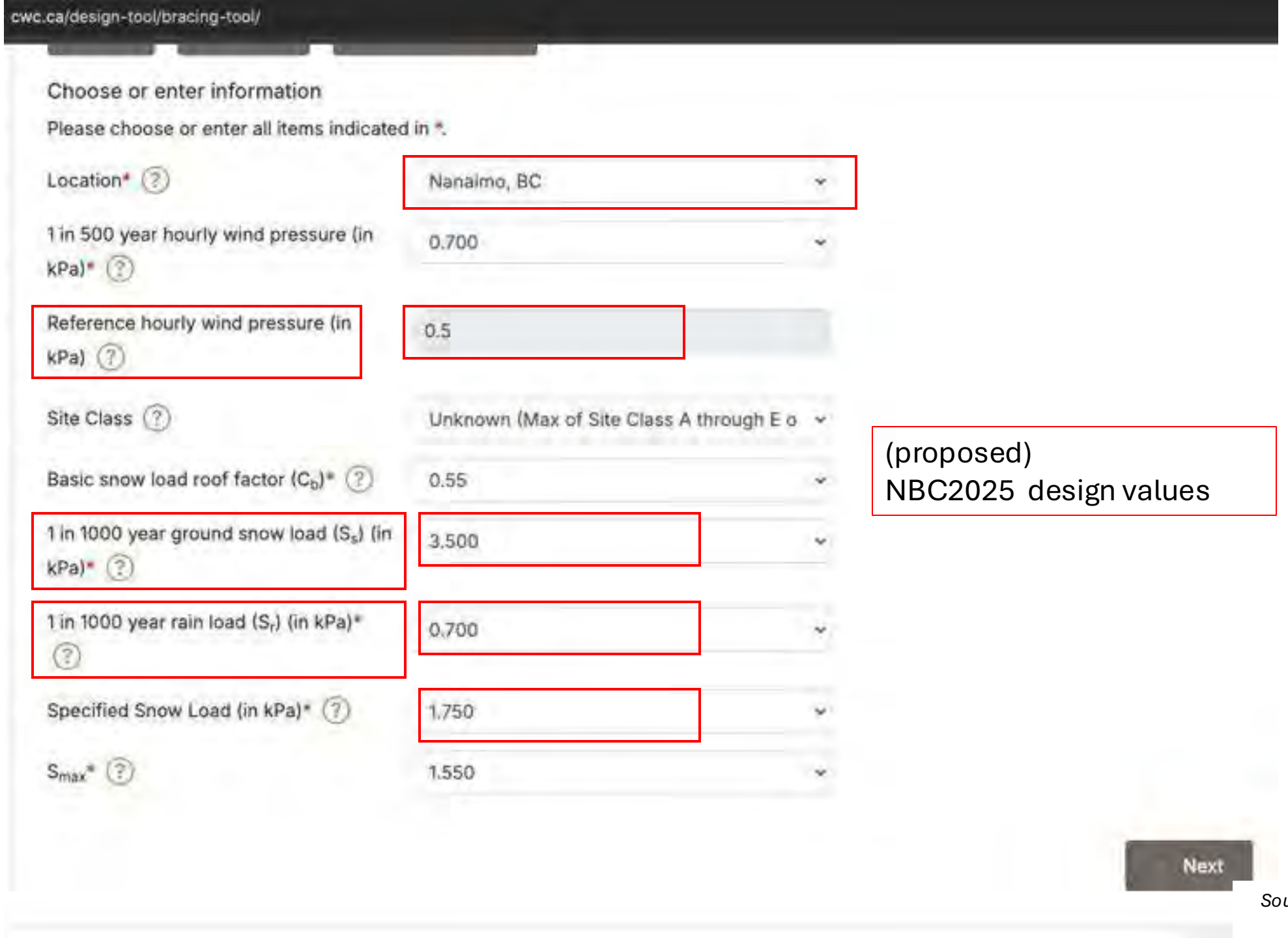
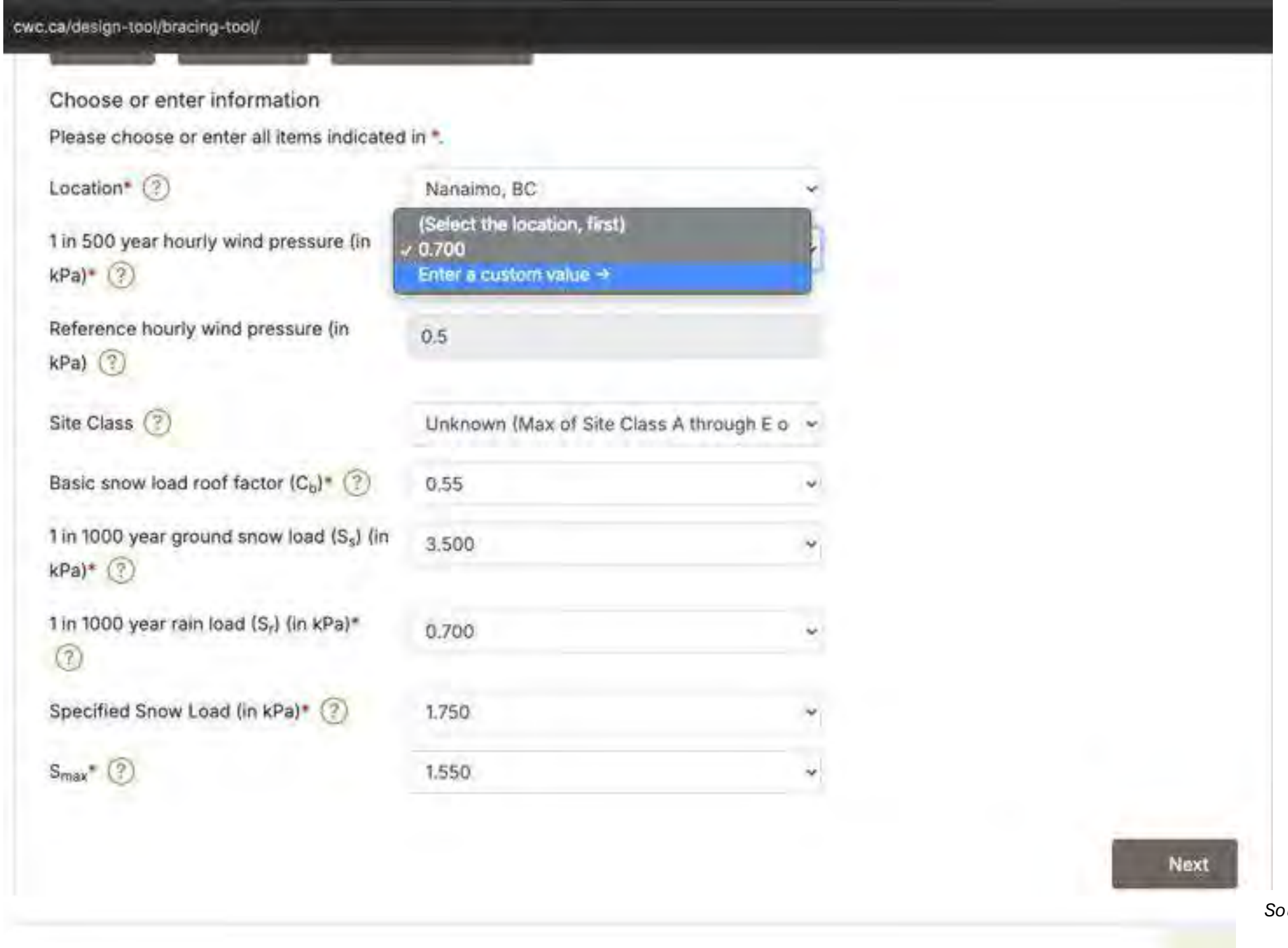


(proposed)
NBC2025 design values

Source: Canadian Wood Council



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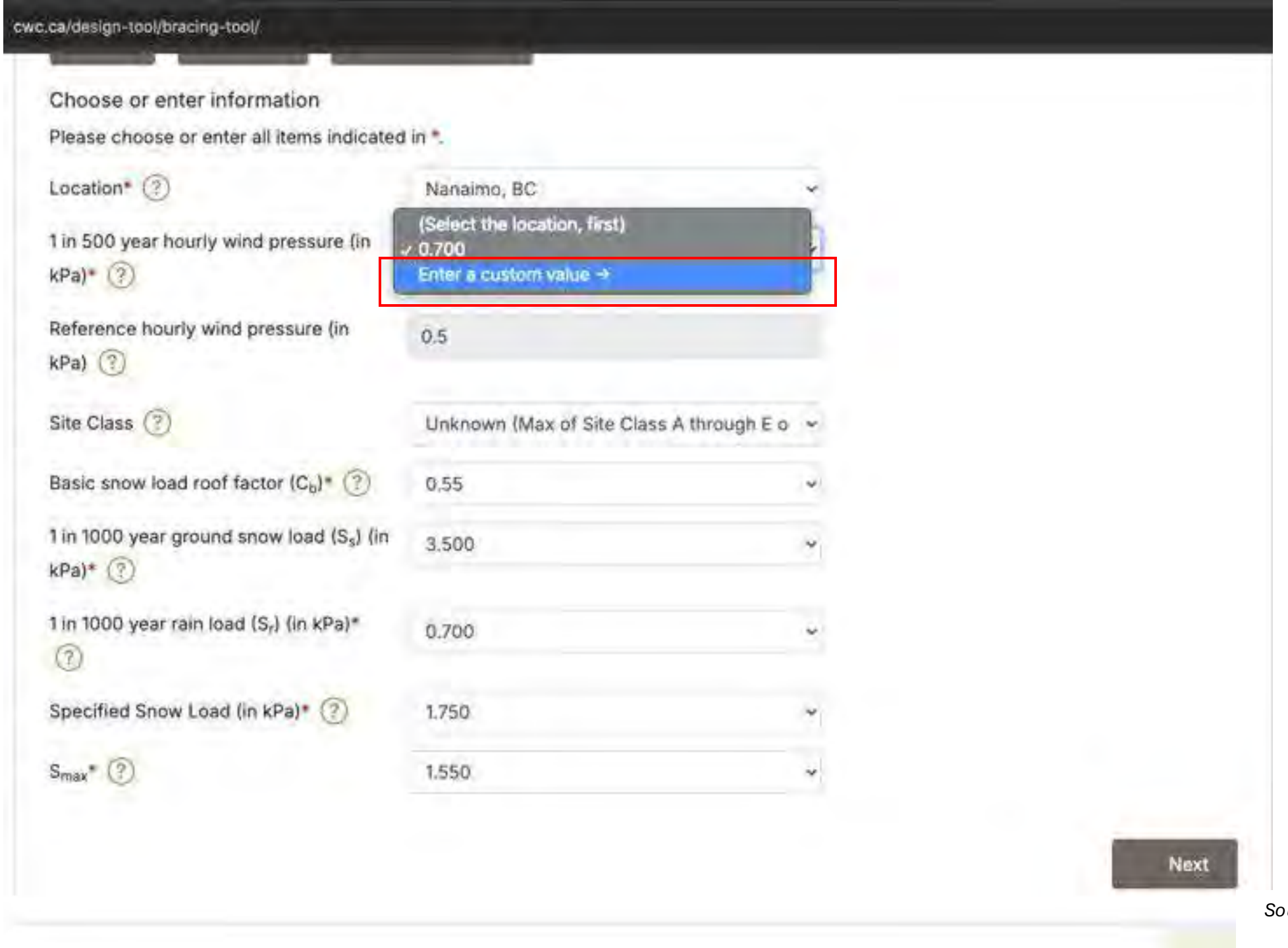

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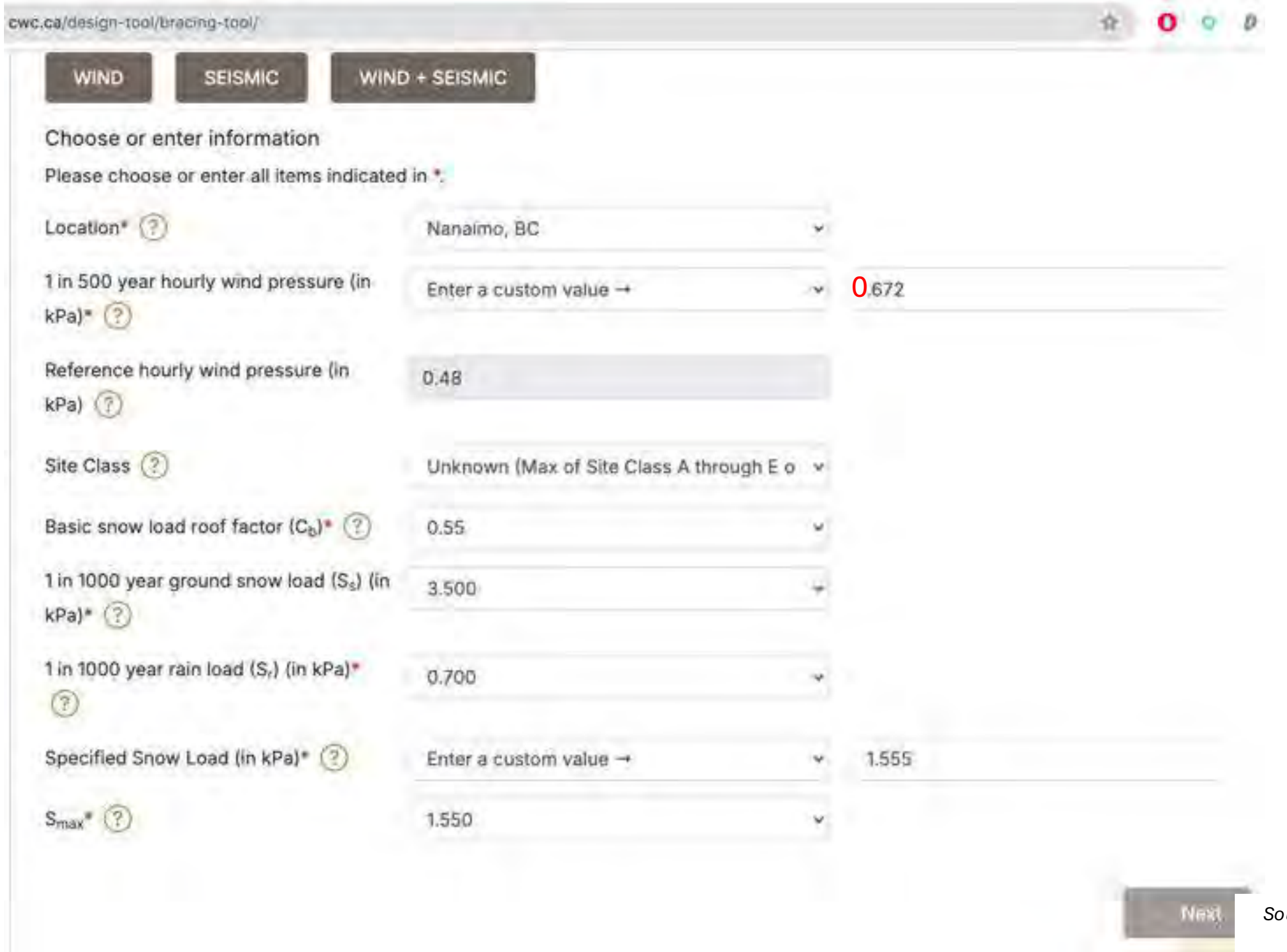

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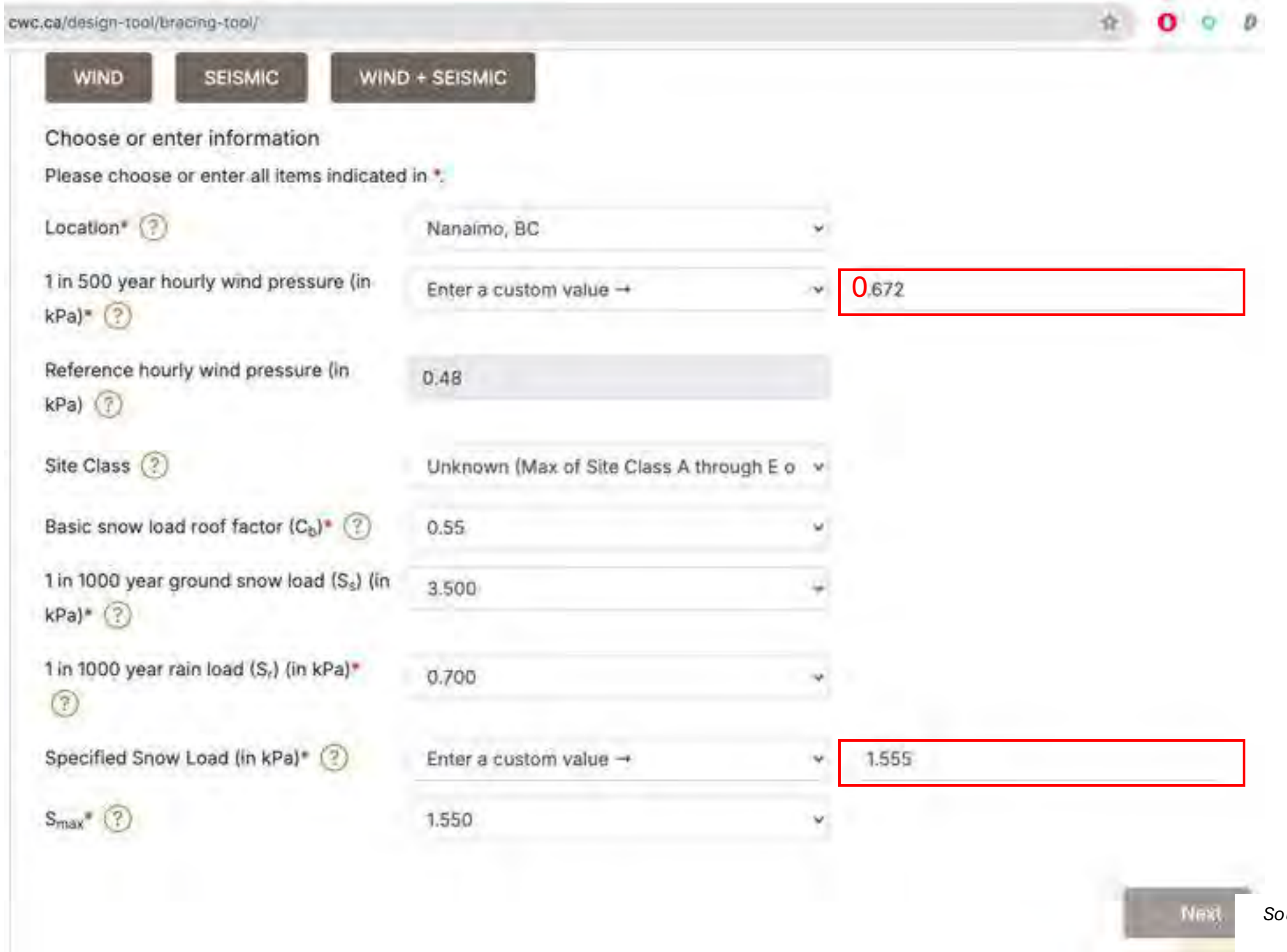

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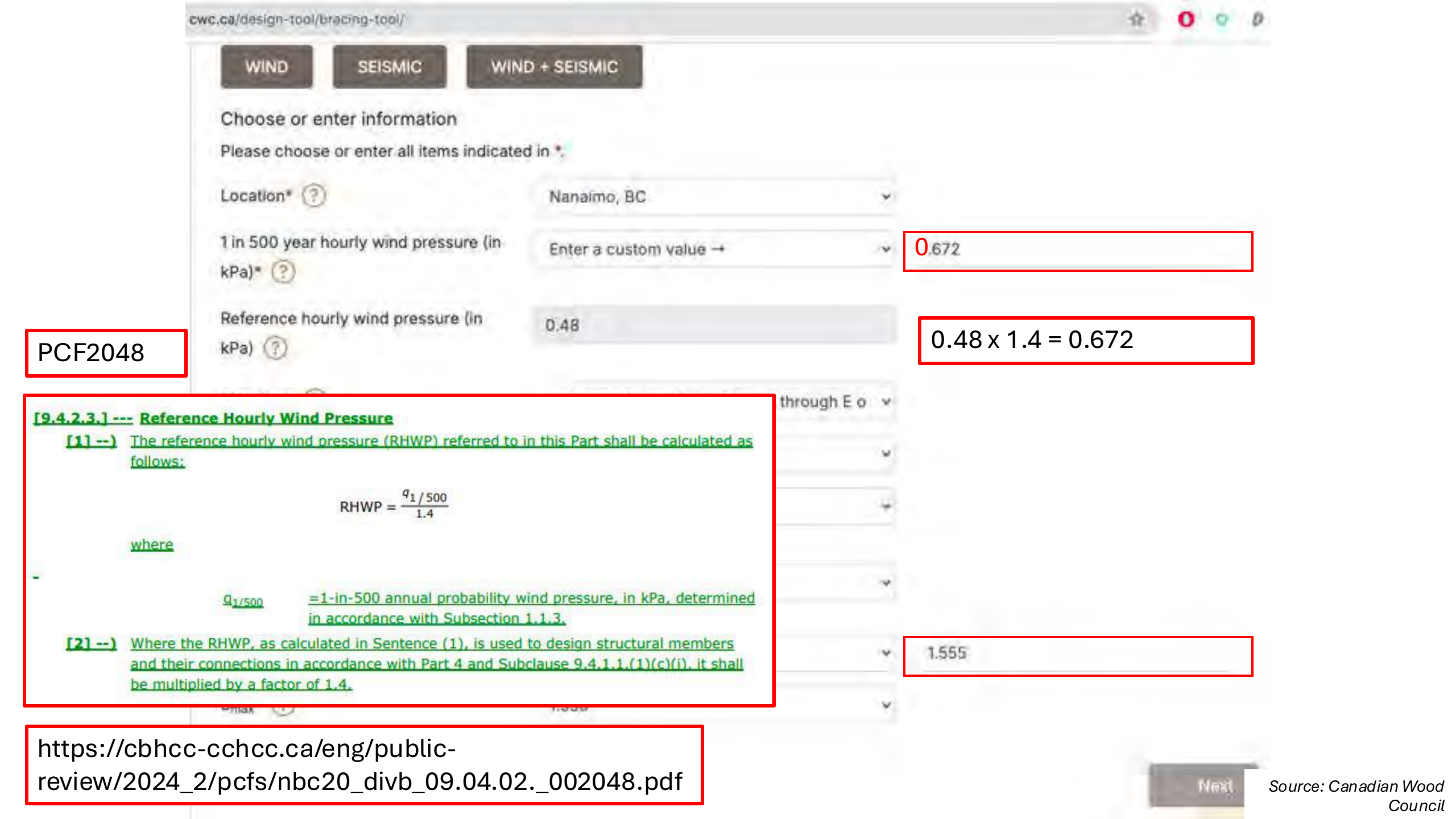

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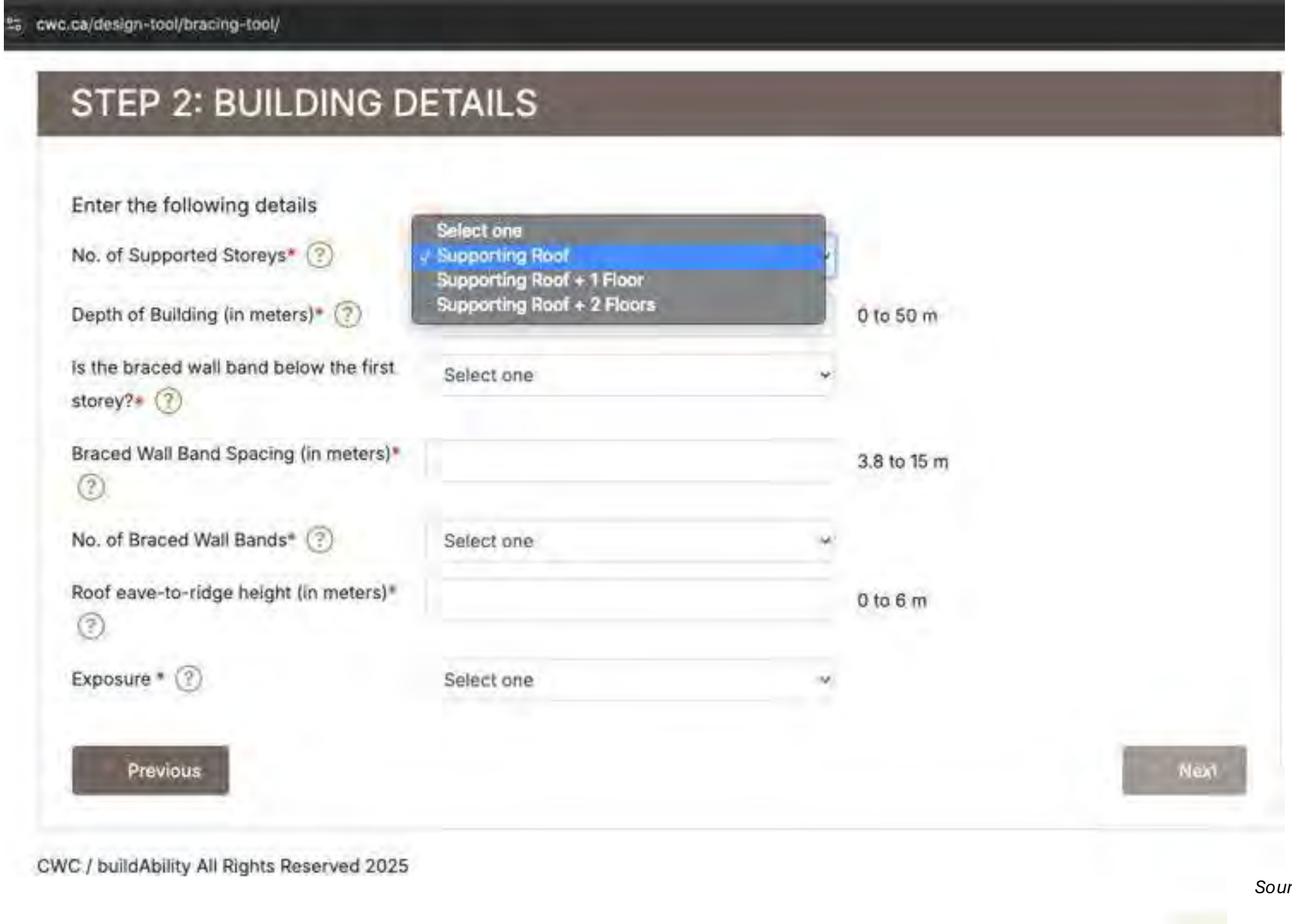

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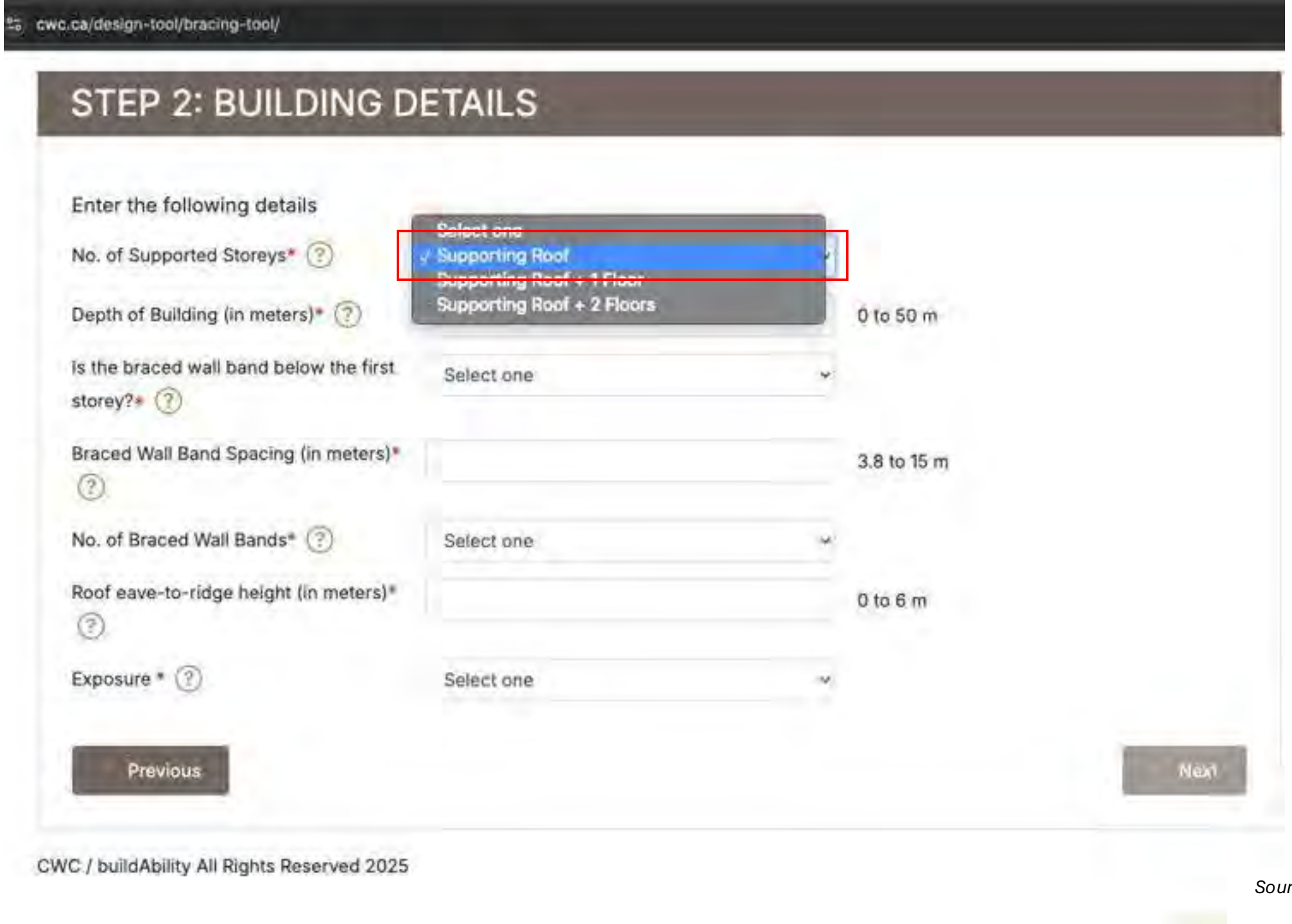

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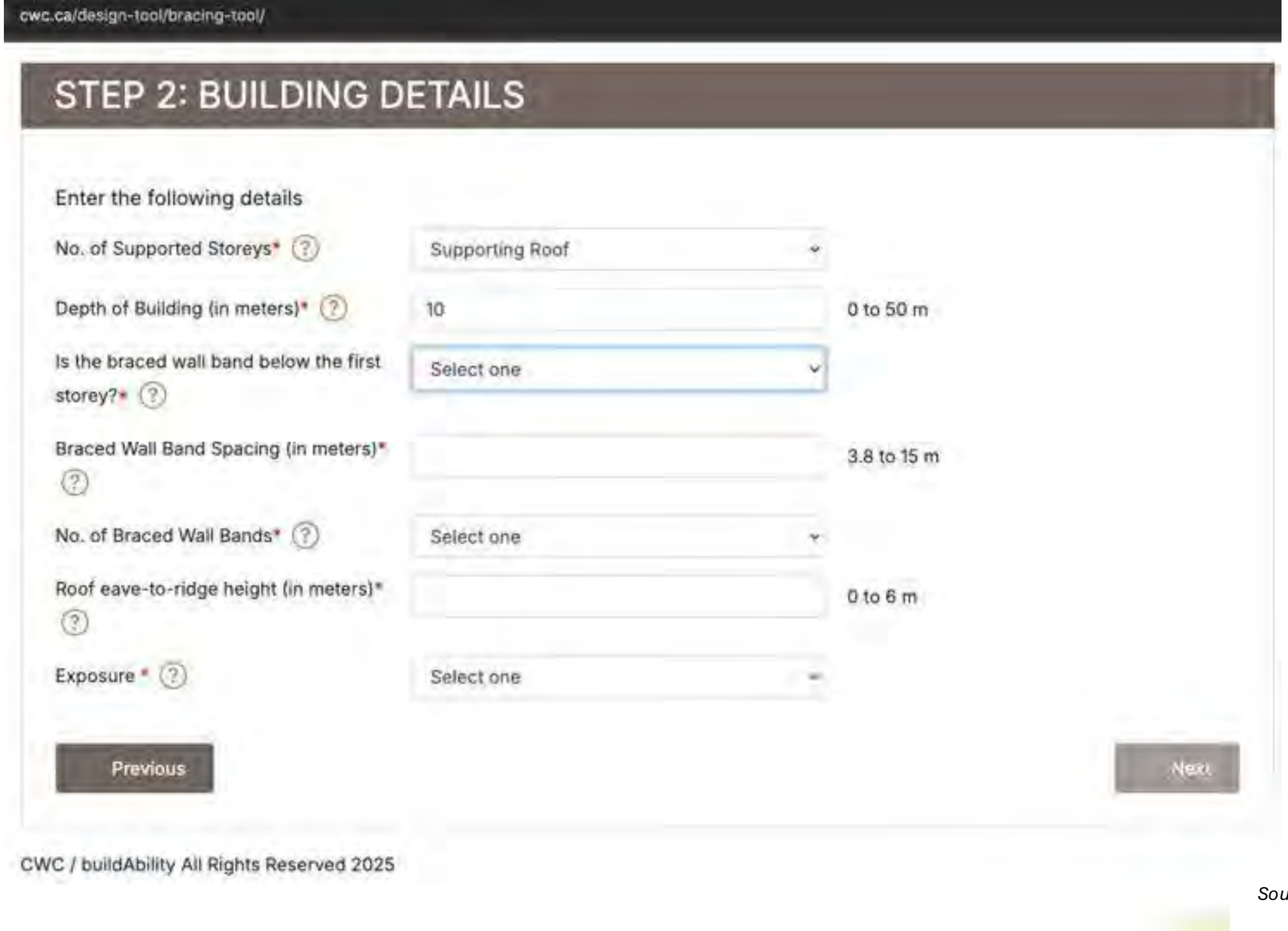

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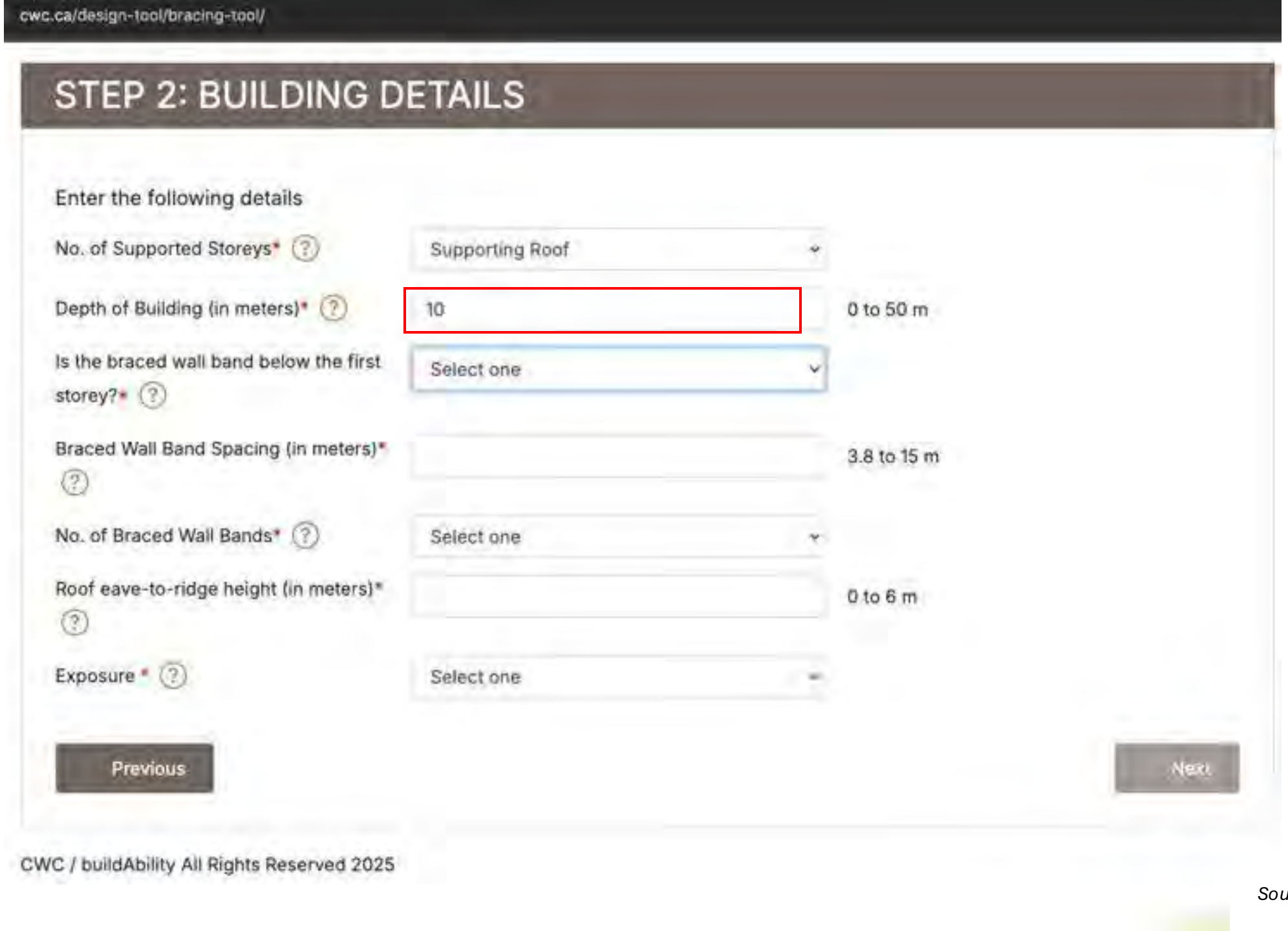

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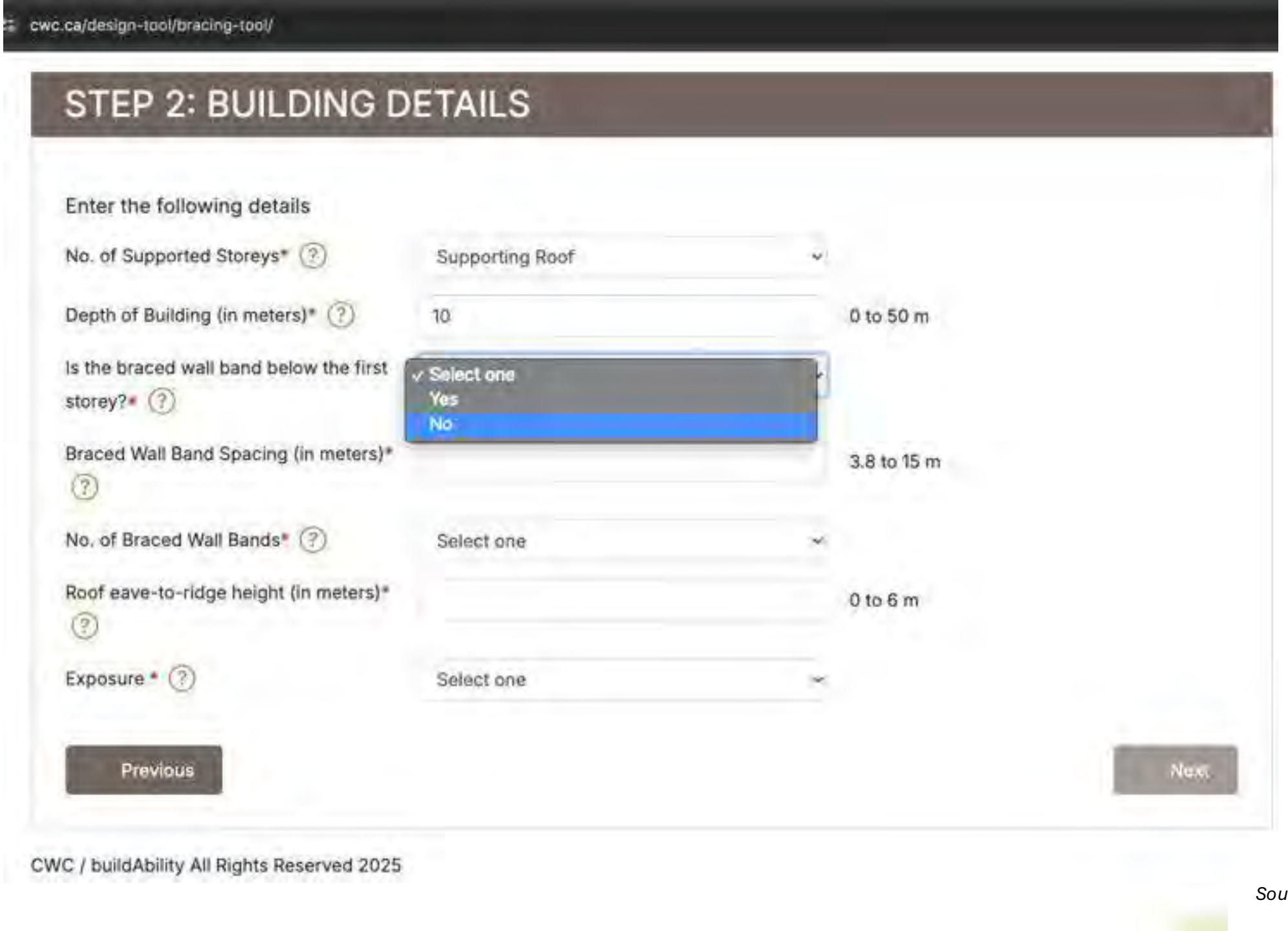

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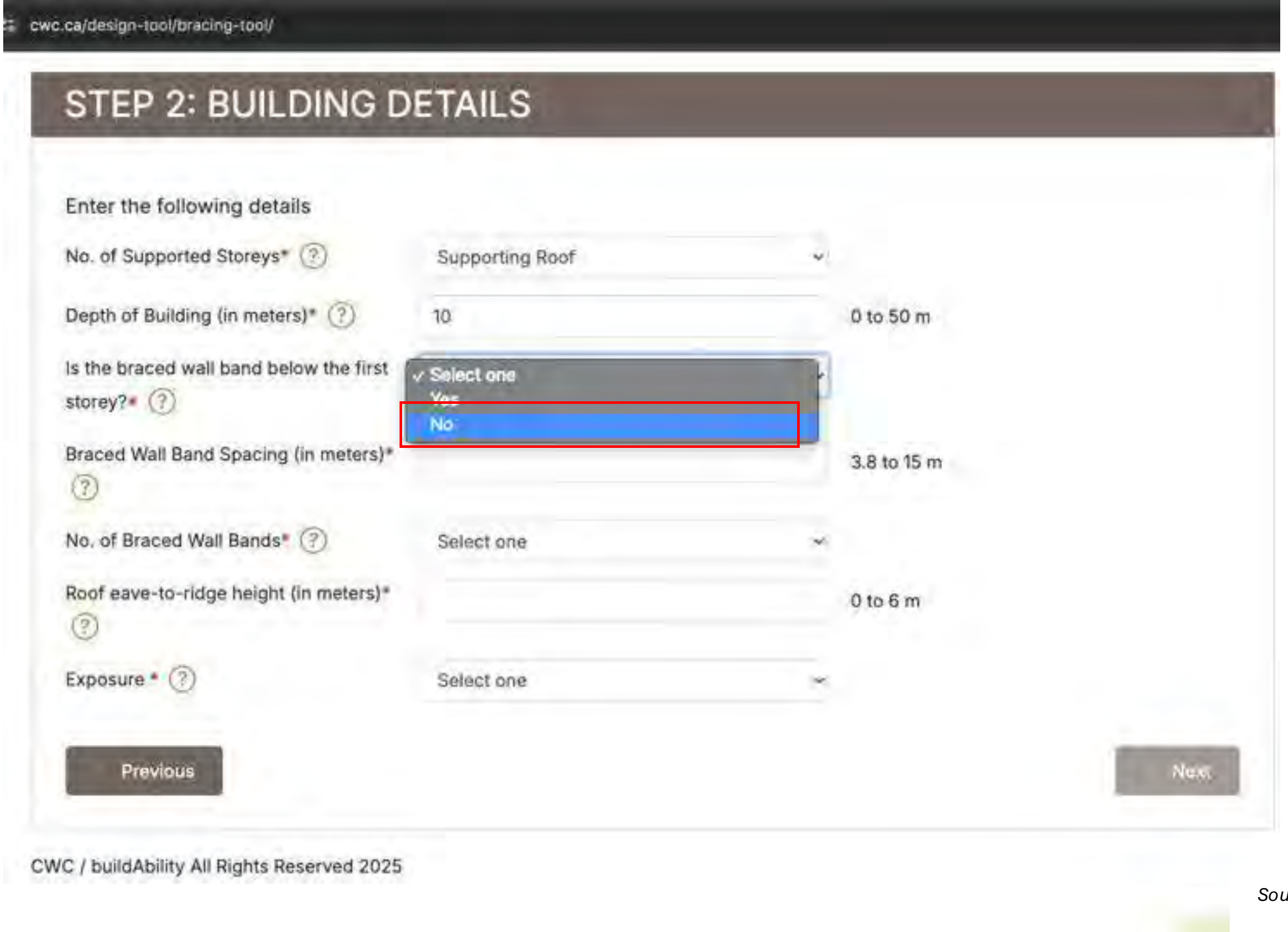

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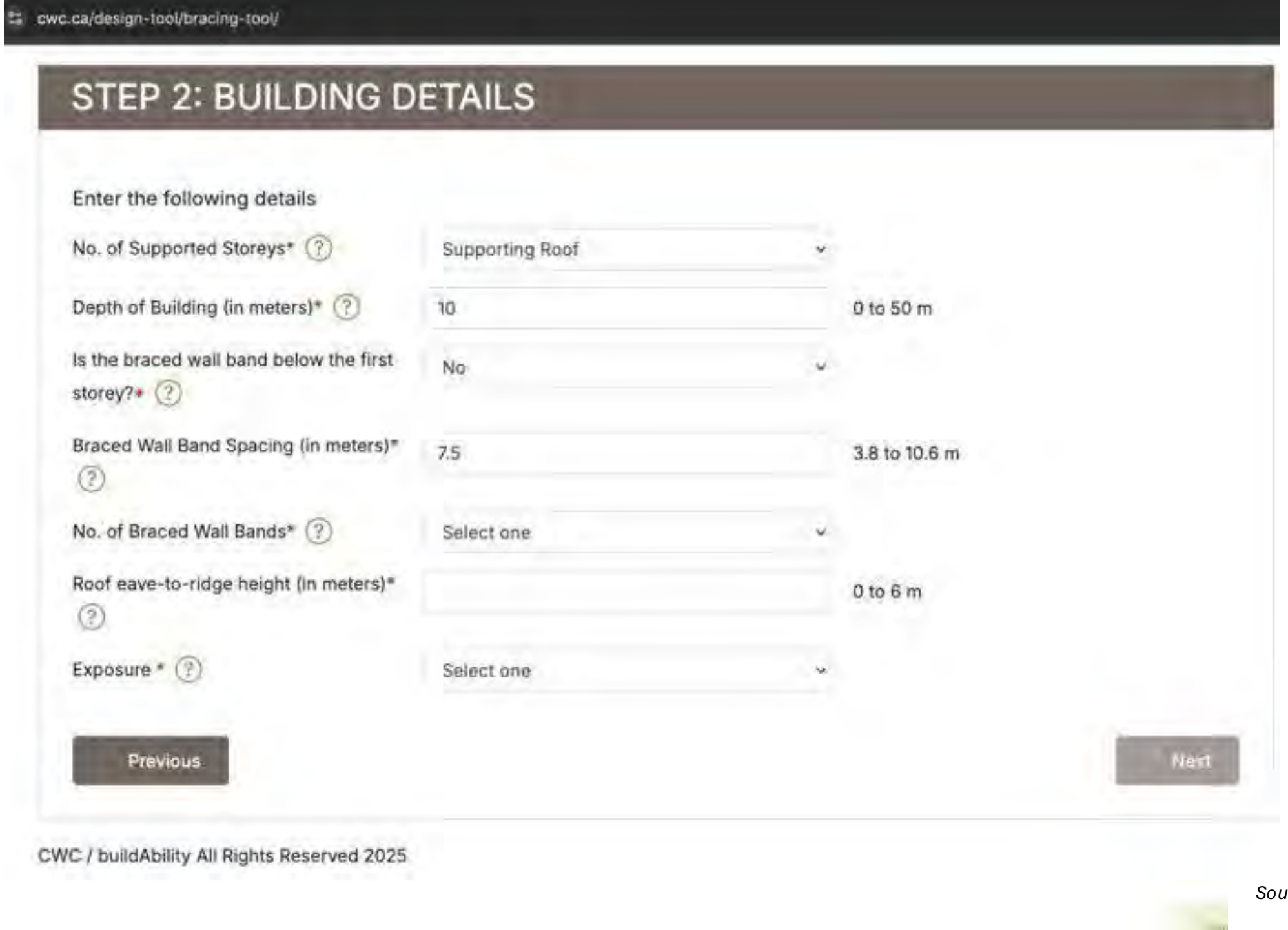

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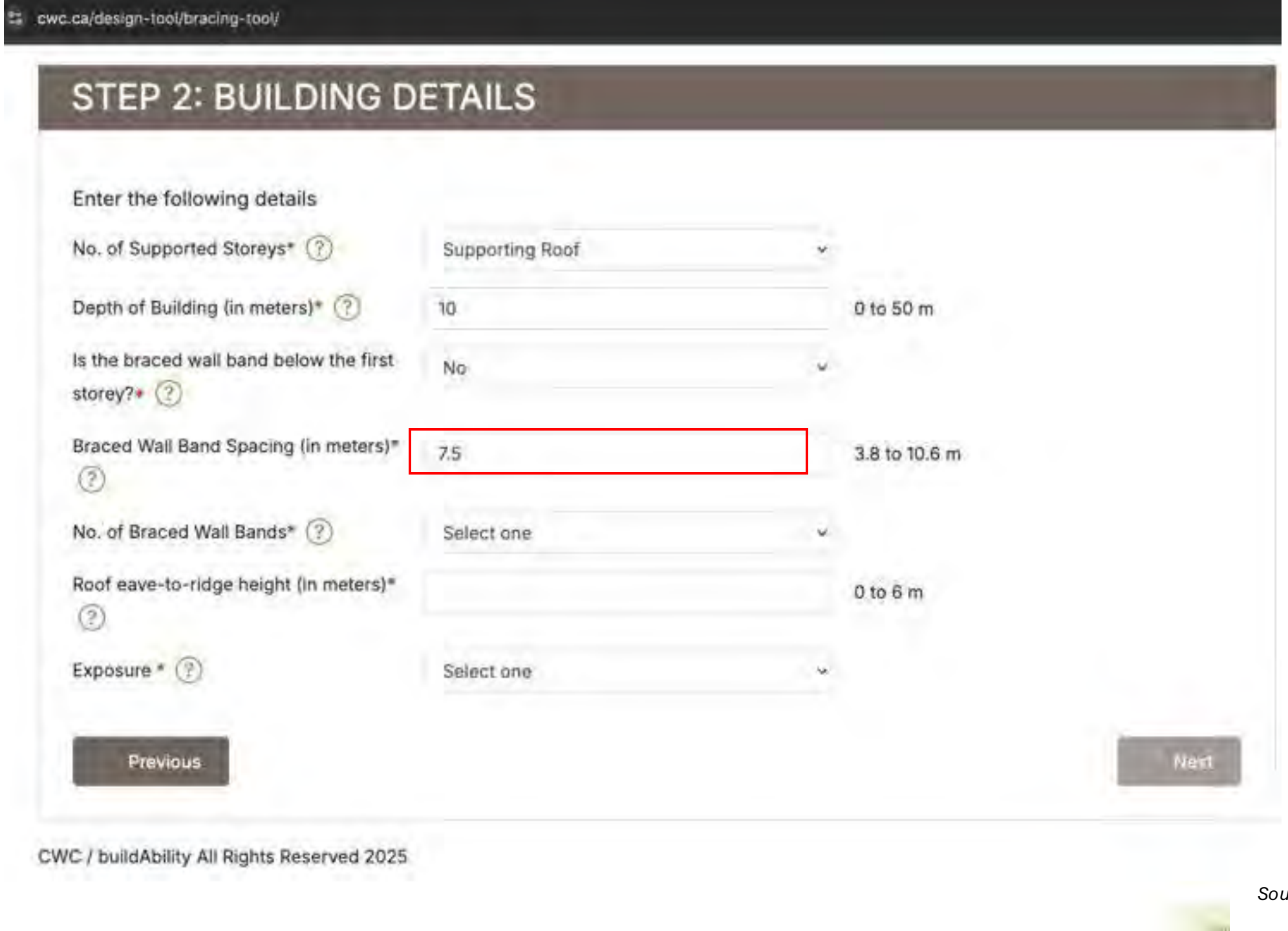

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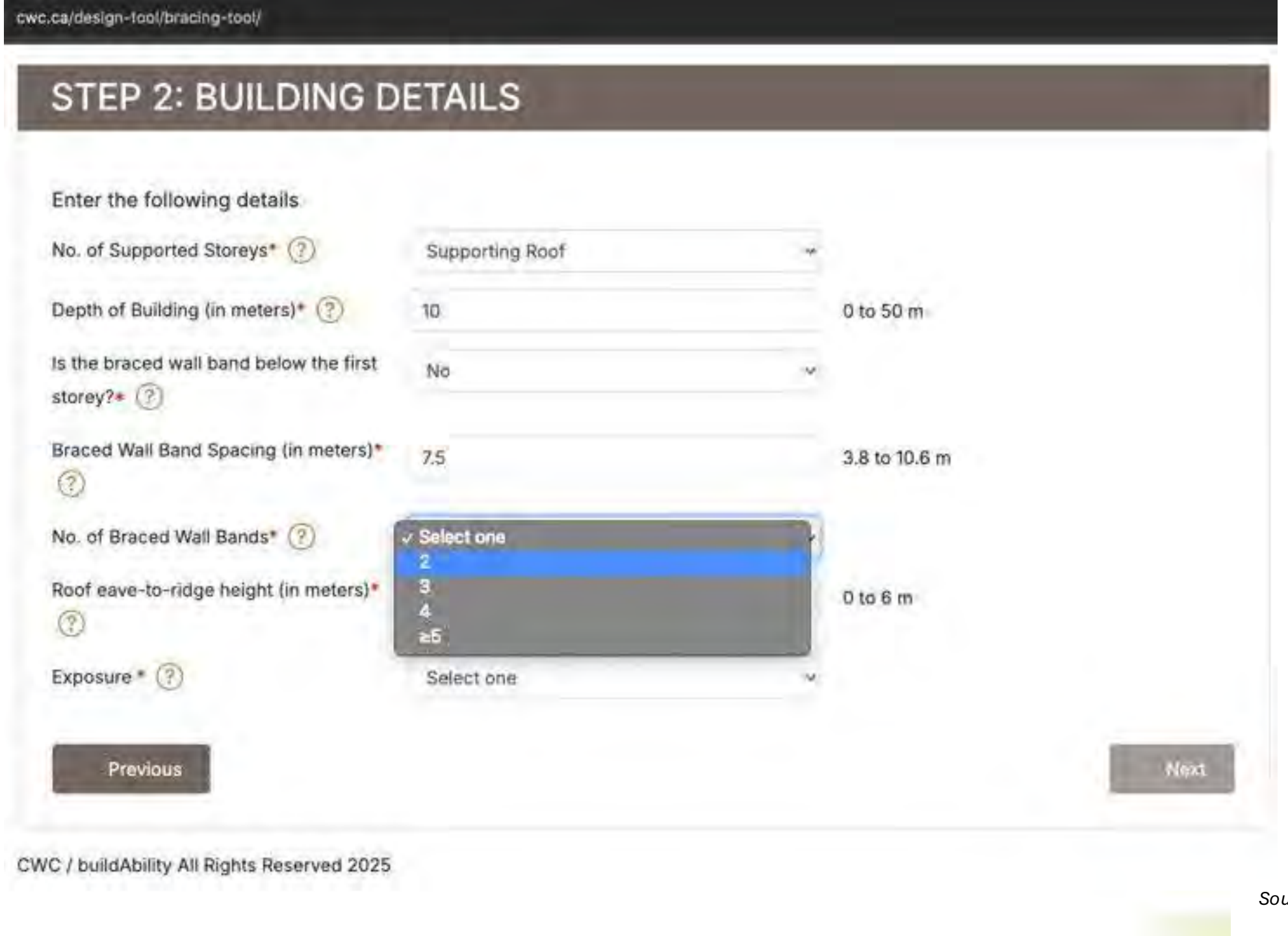

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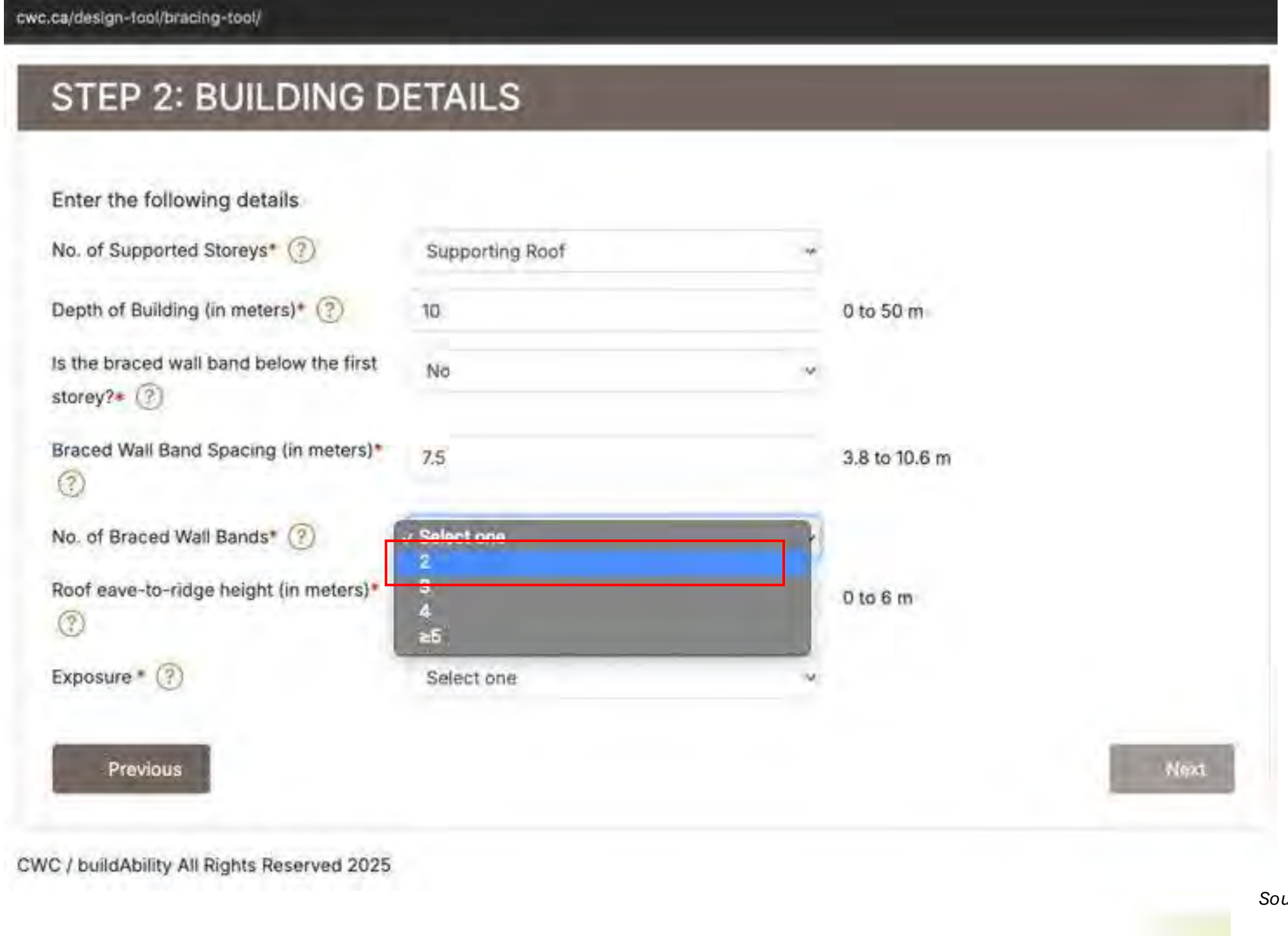

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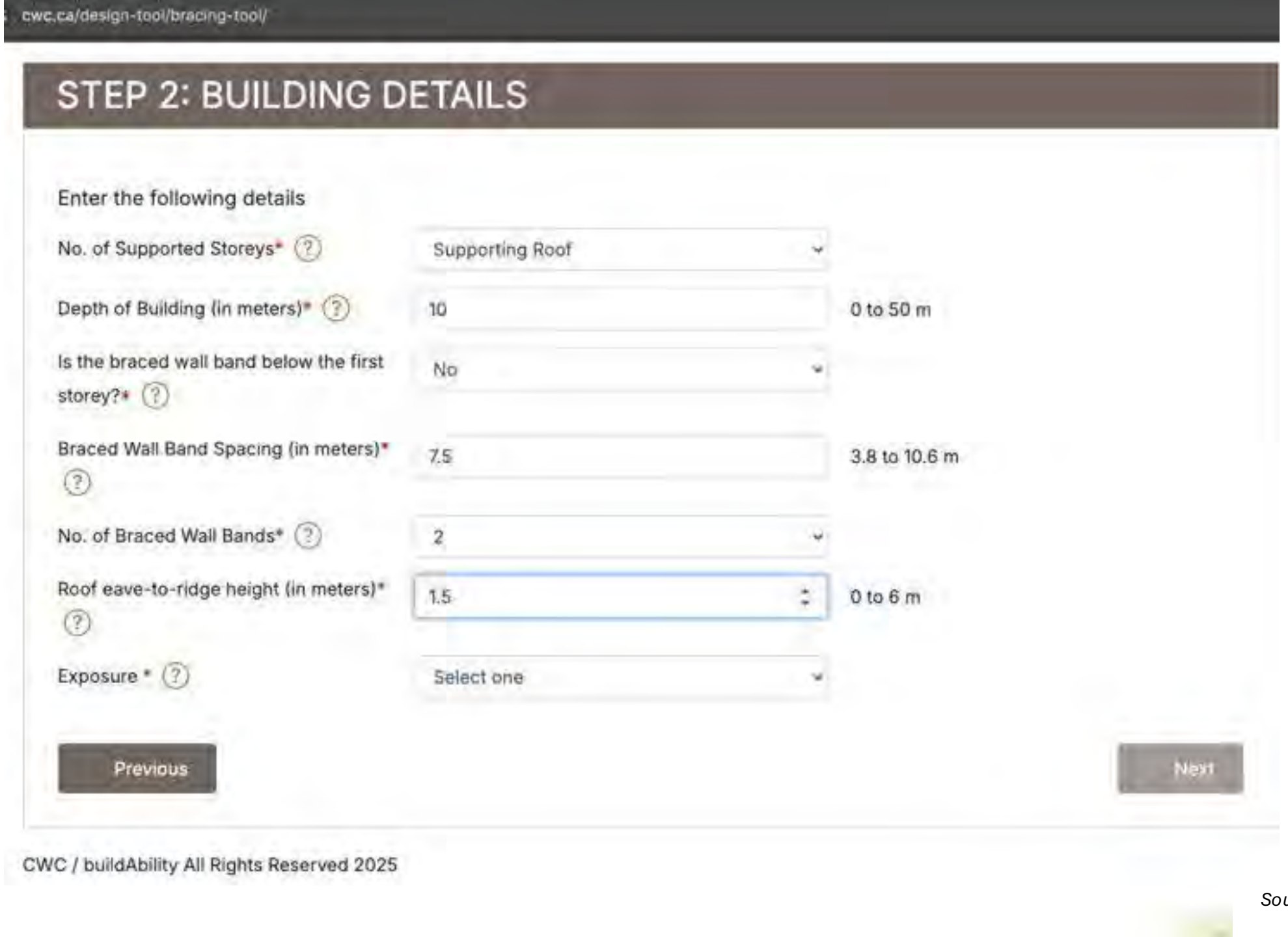

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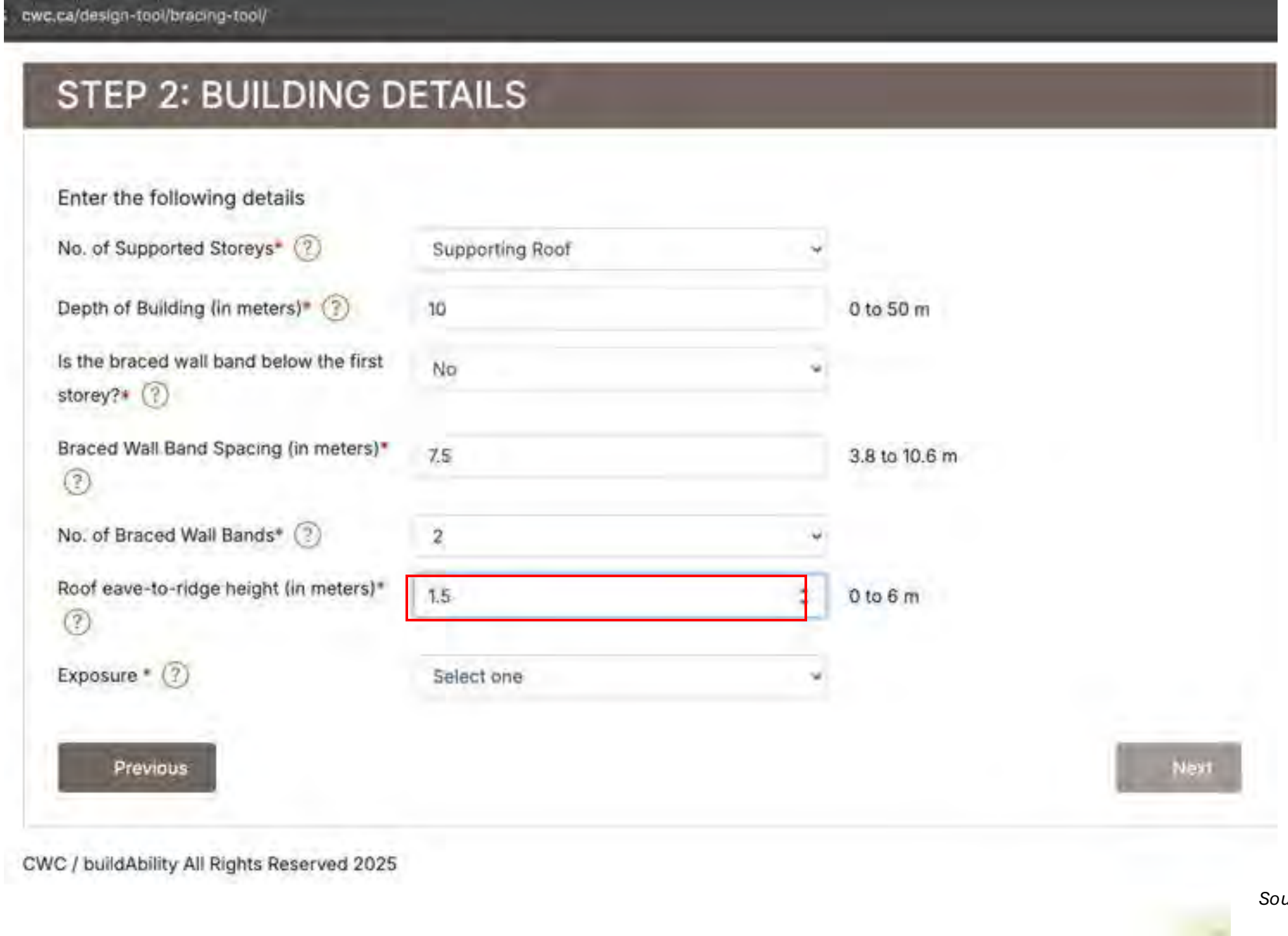

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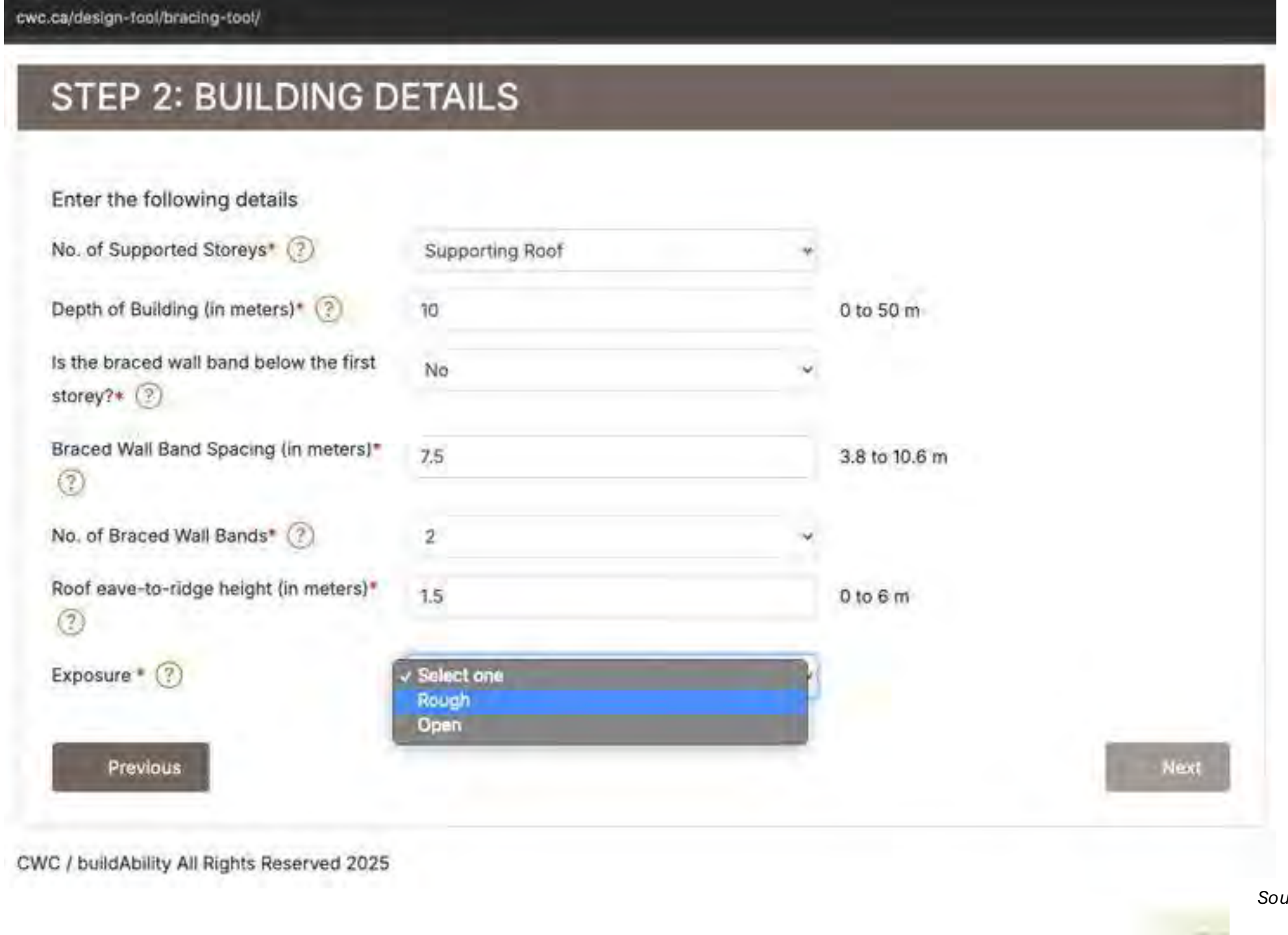

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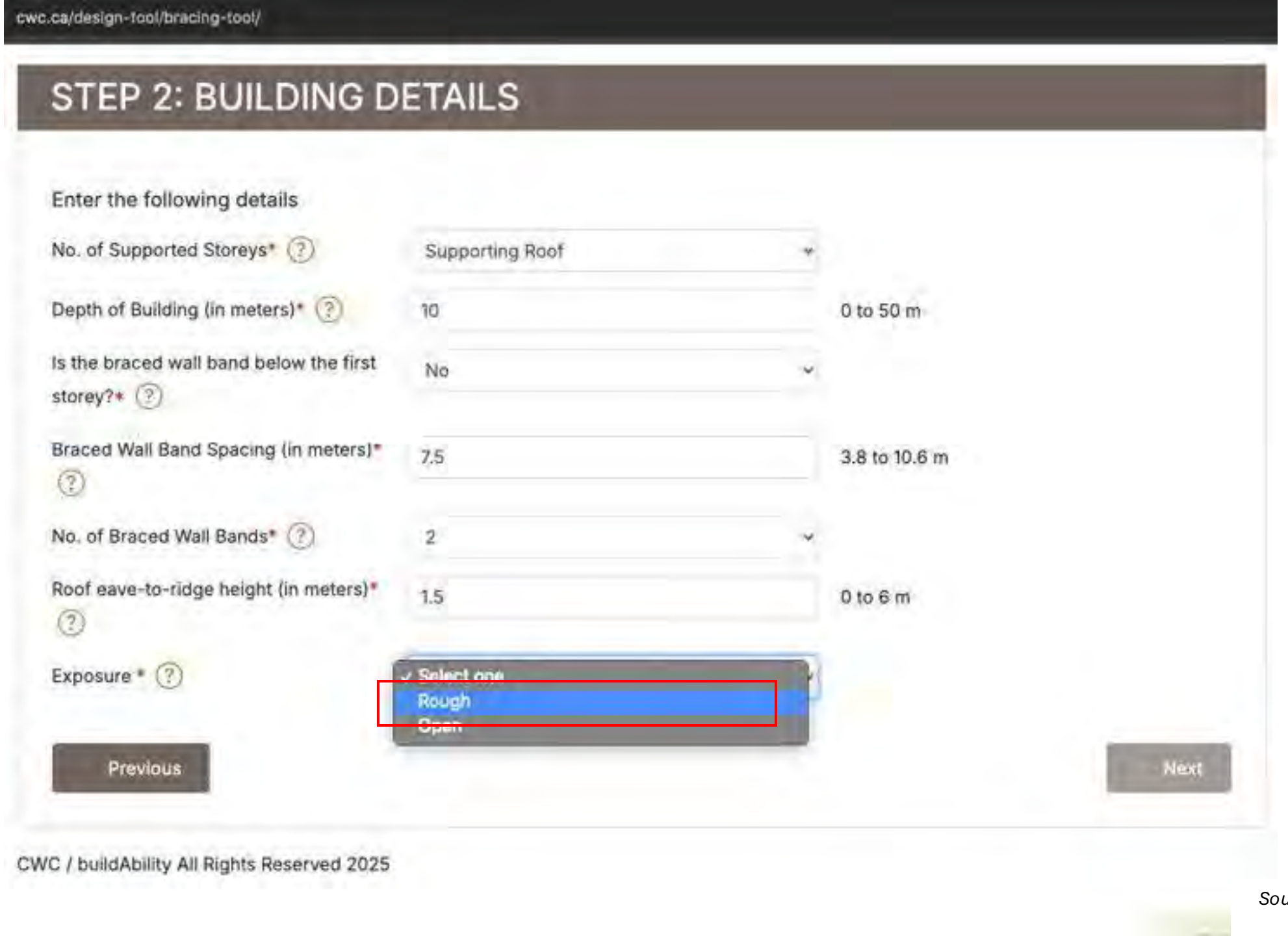

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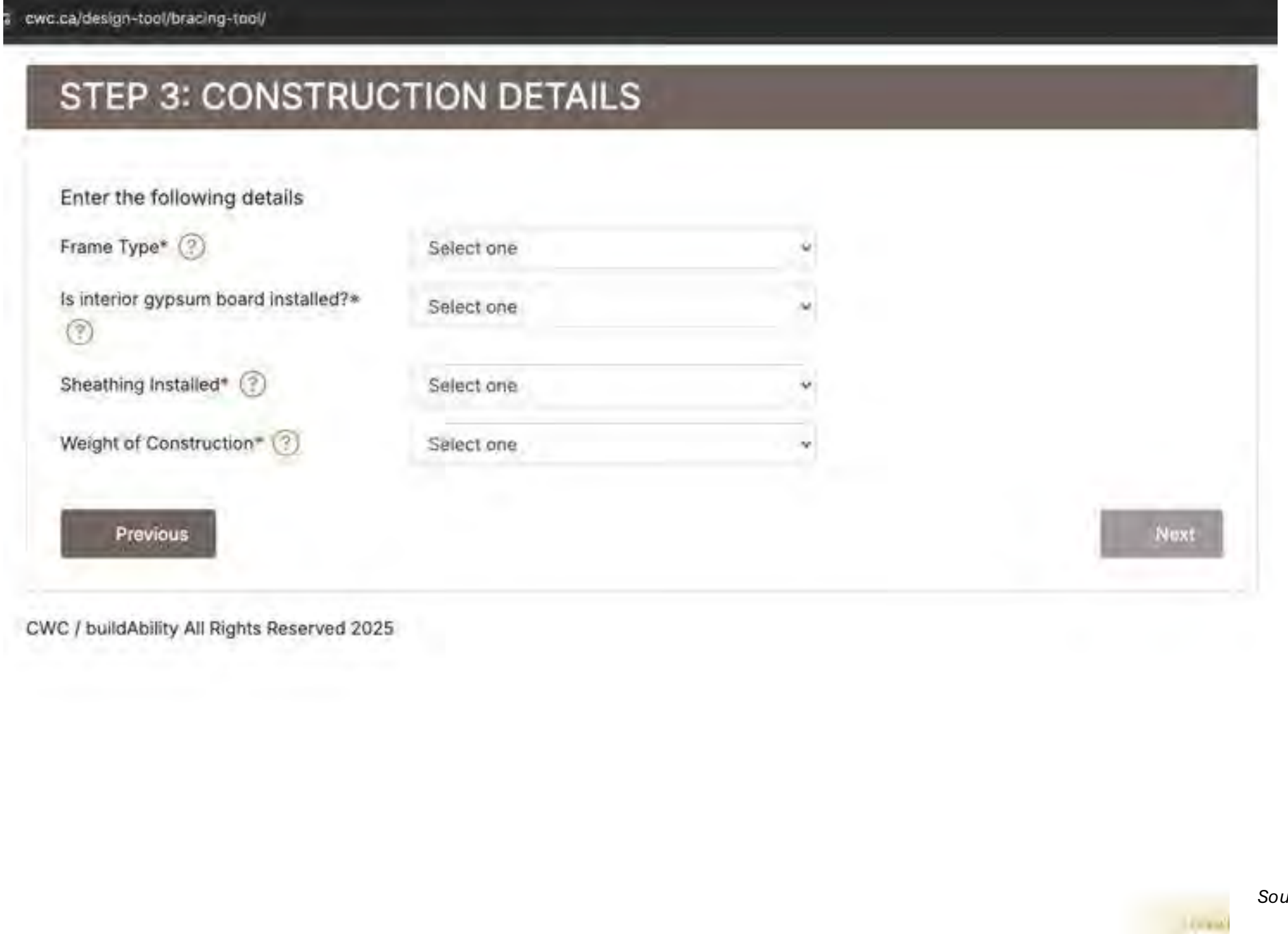

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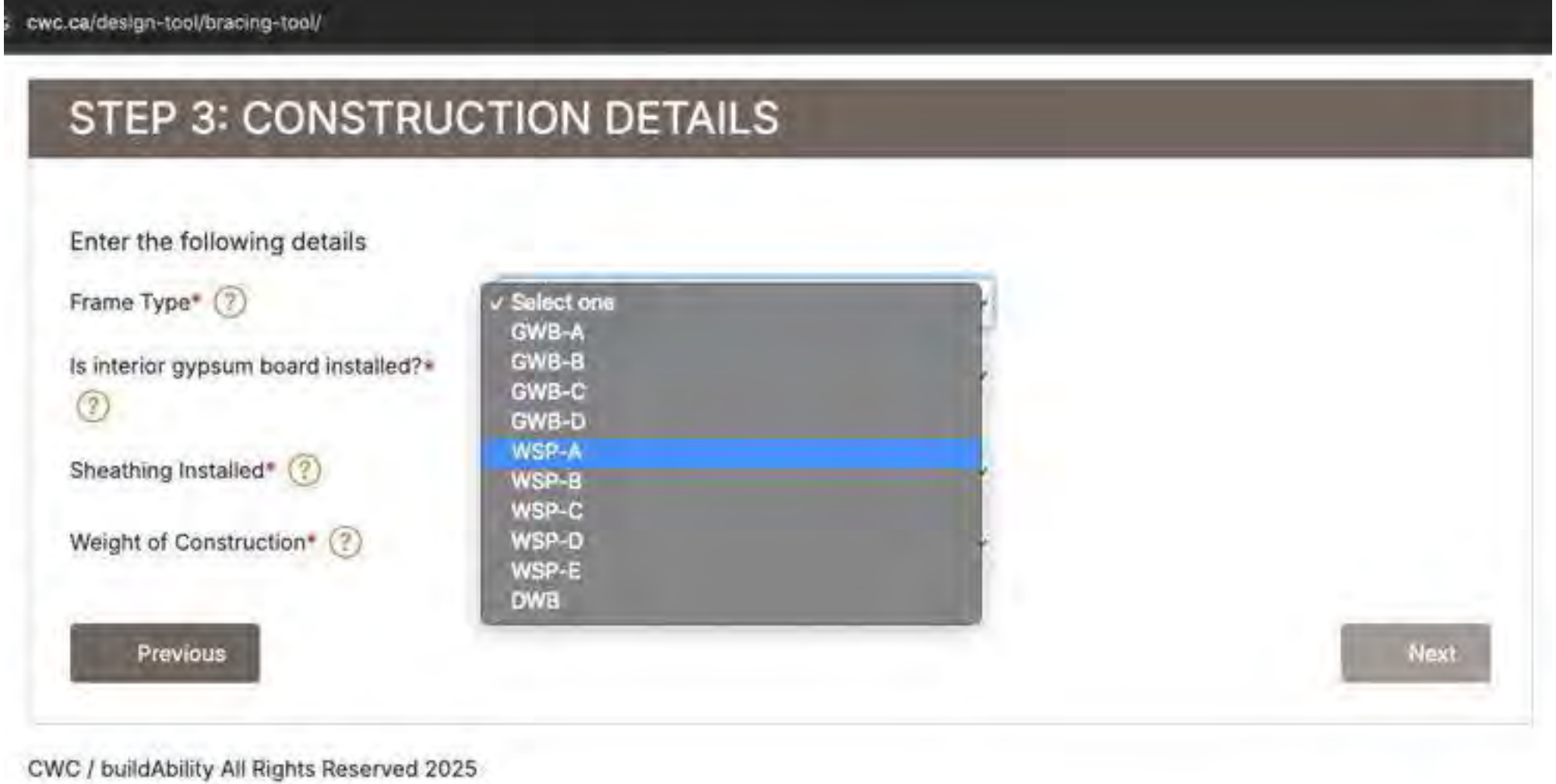

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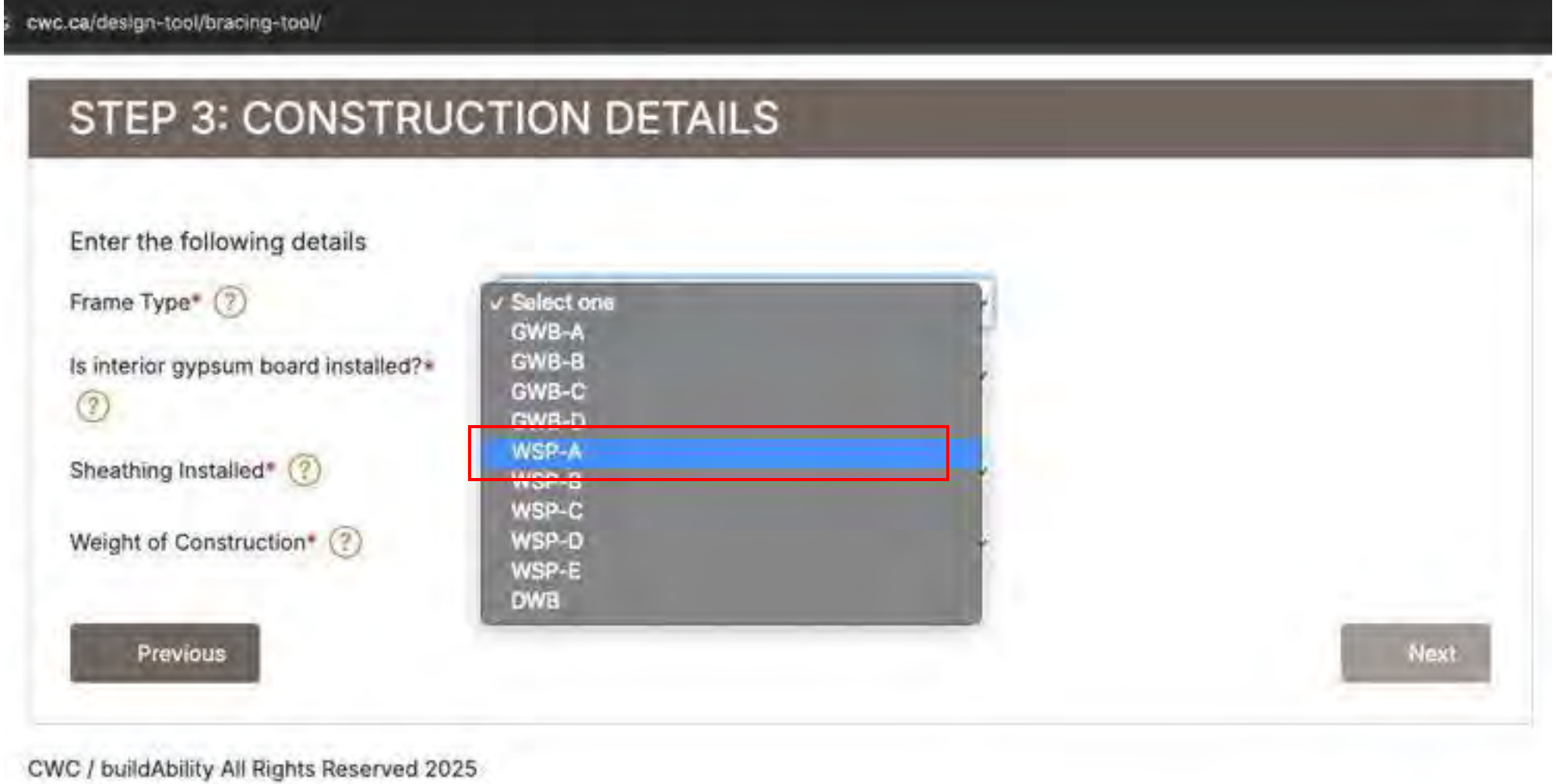

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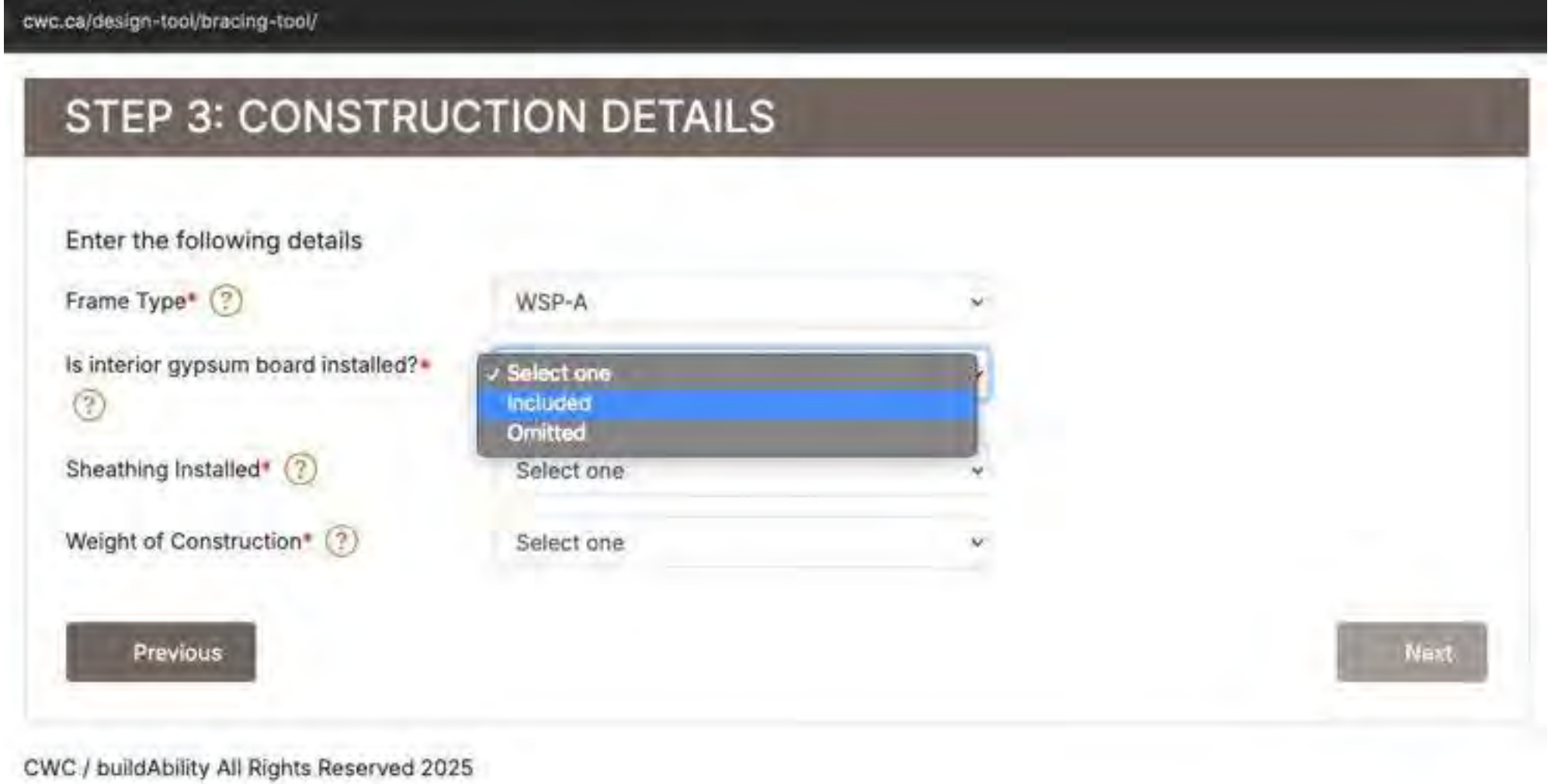

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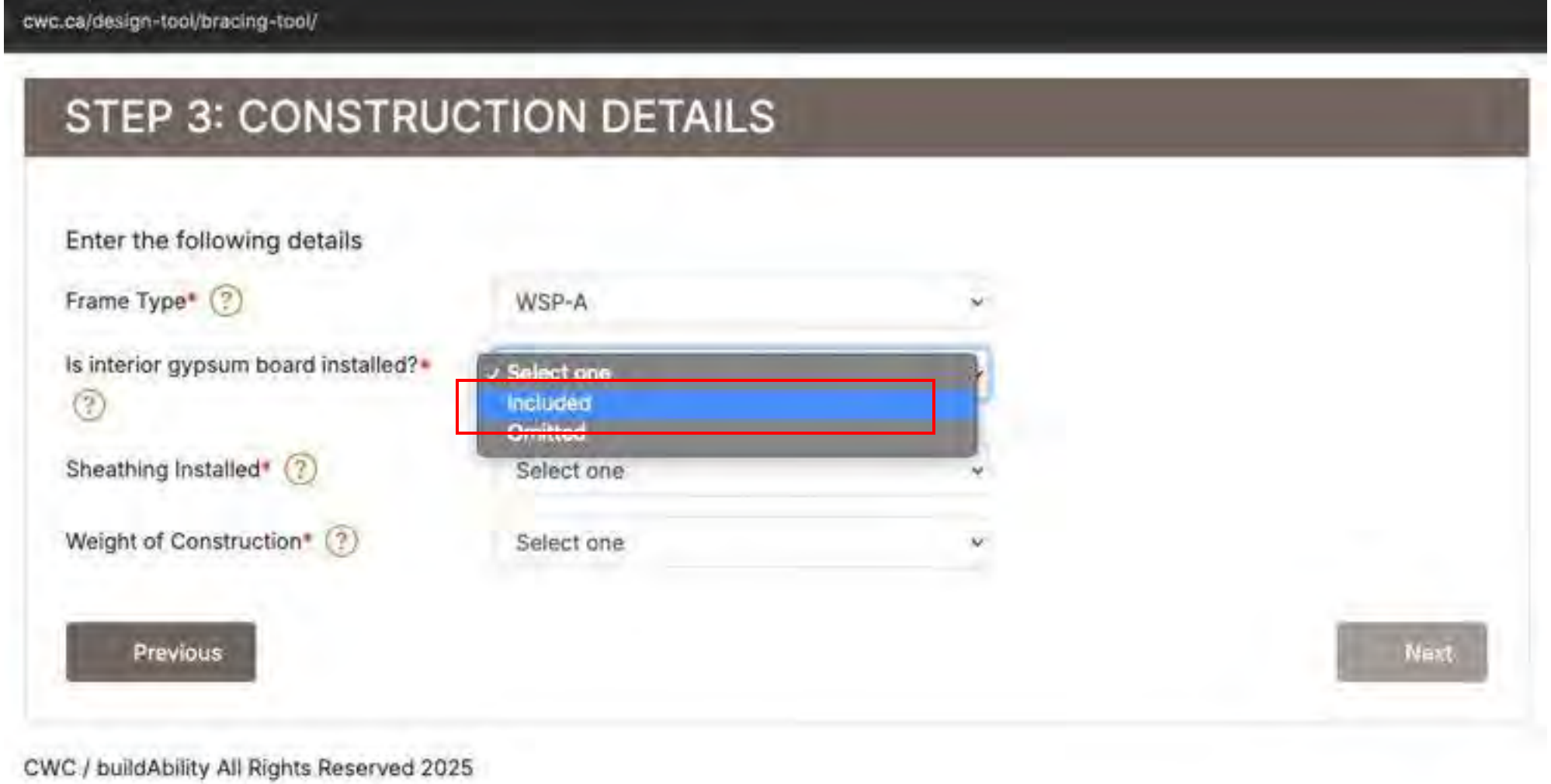

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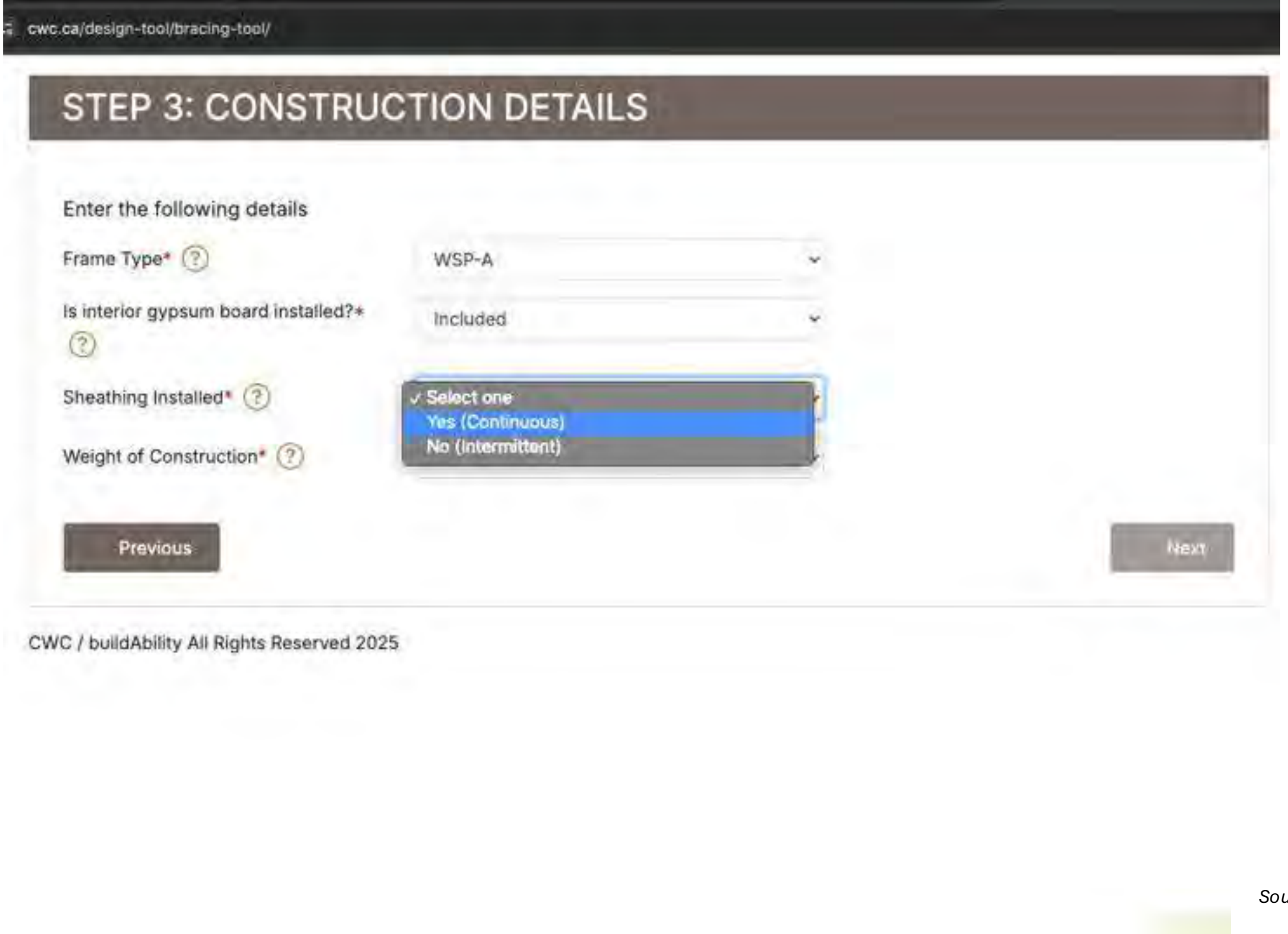

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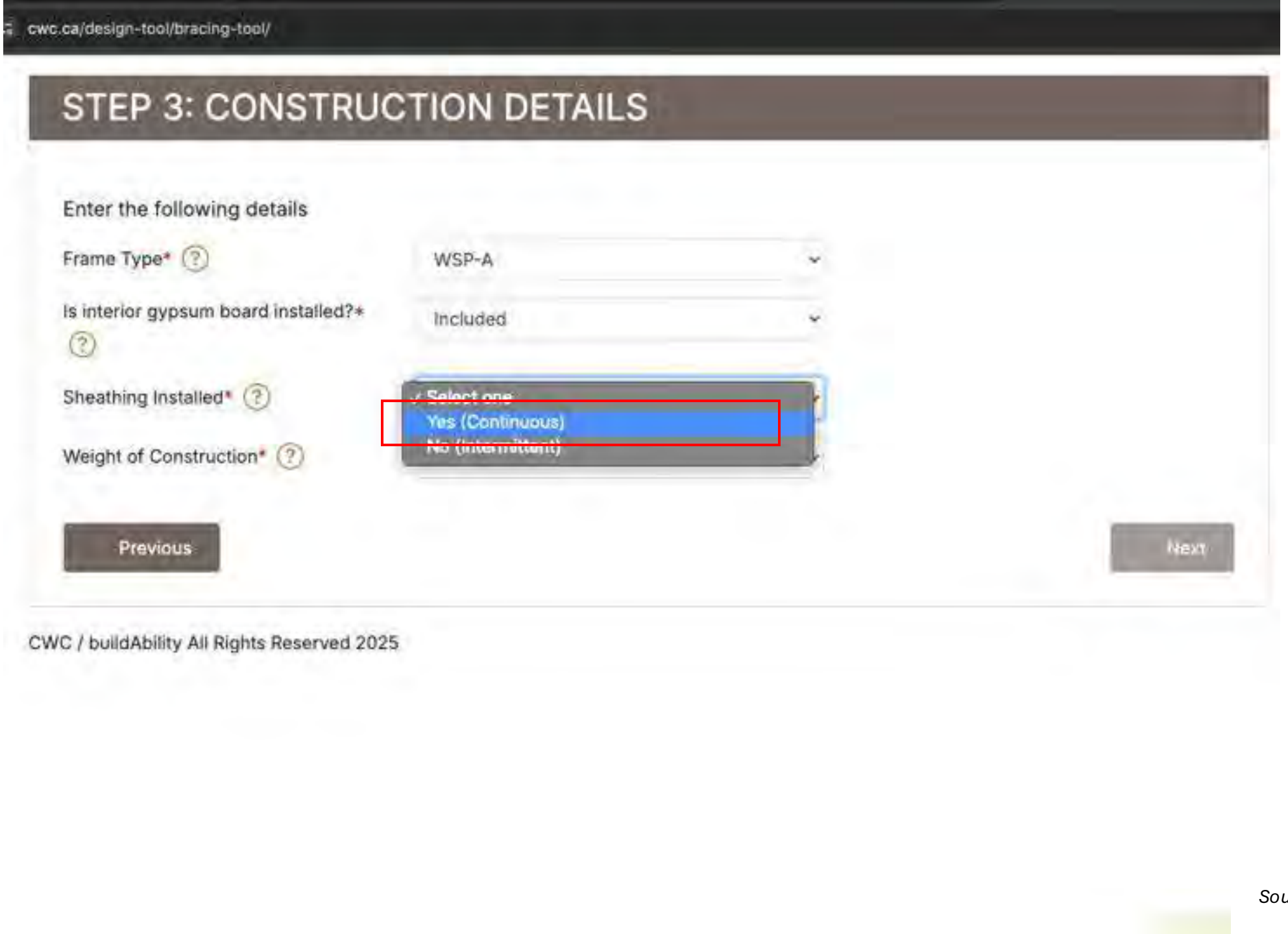

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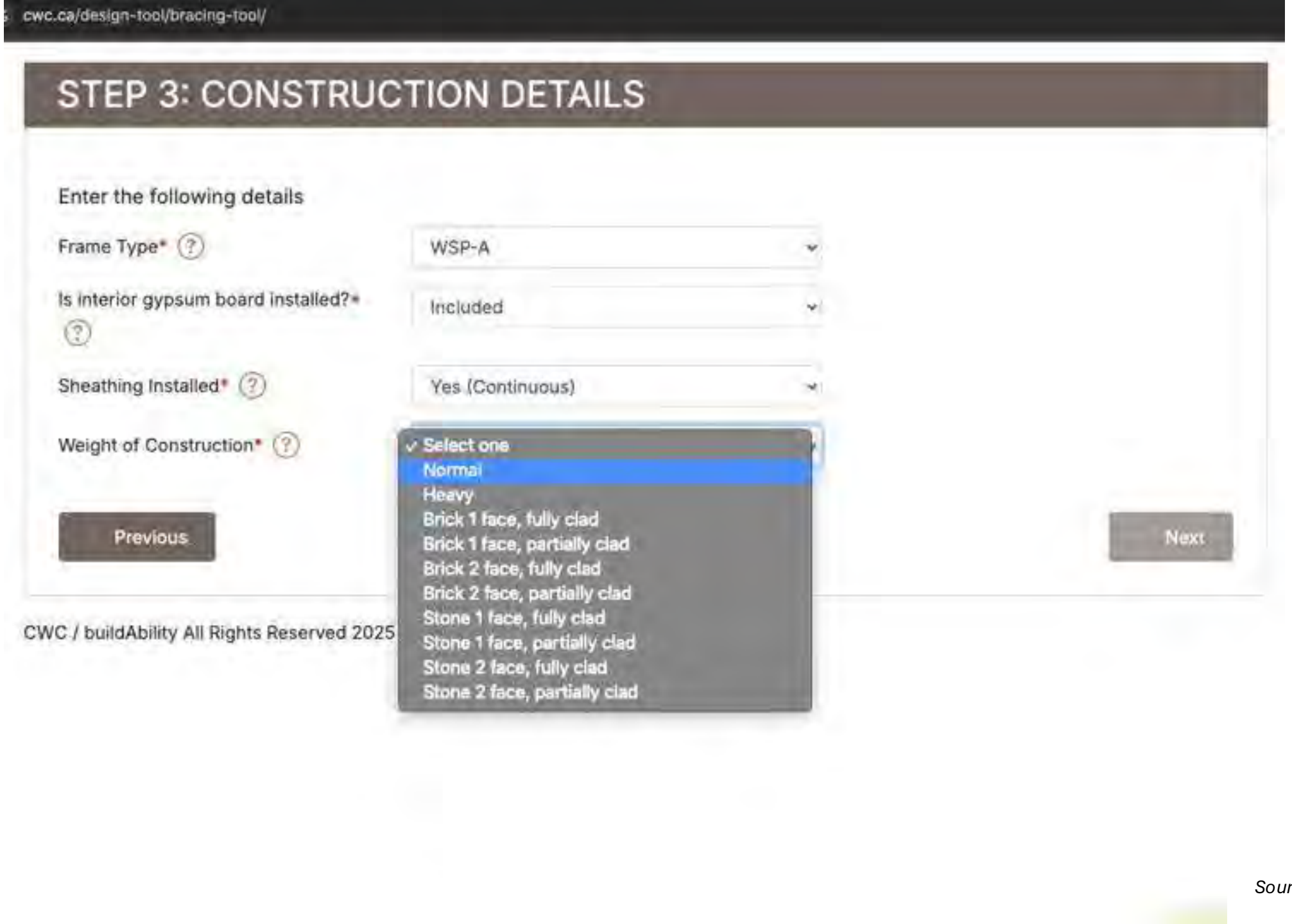

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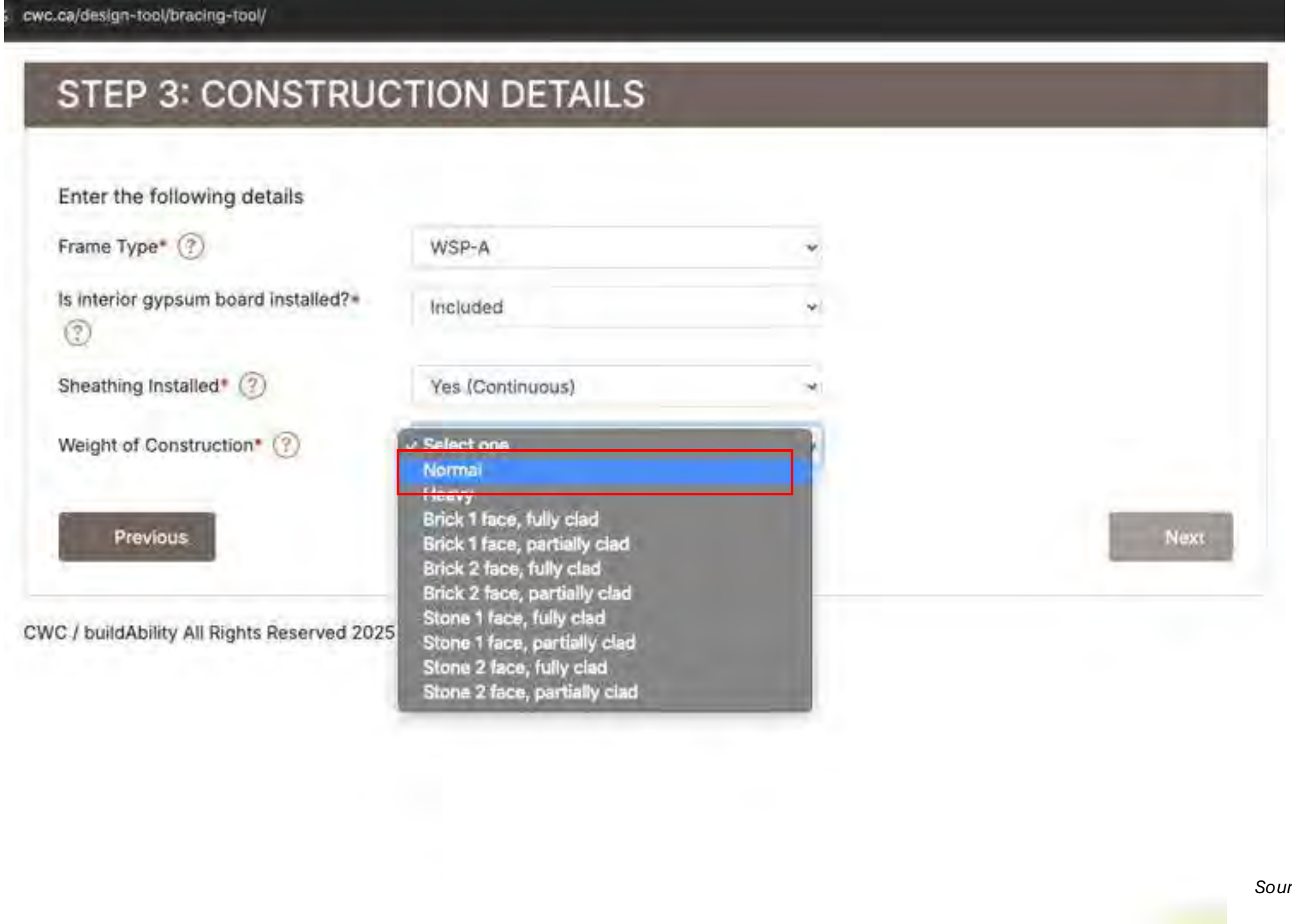

Source: Canadian Wood Council

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

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

Source: Canadian Wood Council

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

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

Source: Canadian Wood Council

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

	Seismic		Wind
S	1.555	HWP	0.672
S_{max}	1.550	RHWP	0.480
S_{max} Range	$1.200 < S_{max} \leq 1.600$	RHWP Range	$0.400 < HWP \leq 0.500$
$C_{Sstorey}$	1.000	$C_{Wstorey}$	3.840
C_{roof}	0.286	K_{Wframe}	1.000
C_{walls}	0.897	K_{roof}	0.520
K_{Sframe}	1.000	K_{number}	1.000
K_{number}	1.000	$K_{Wspacing}$	0.987
$K_{Sspacing}$	0.989	K_{gyp}	1.000
K_{gyp}	1.000	$K_{Wsheath}$	1.000
K_{sheath}	1.000	K_{exp}	1.000
K_{weight}	1.000	L_{uw}	1.900
K_{snow}	1.000	L_w	0.946
L_{us}	2.349		
L_s	2.058		

Source: Canadian Wood Council

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

	Seismic		Wind
S	1.555	HWP	0.672
S_{max}	1.550	RHWP	0.480
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K_{Sframe}	1.000	K_{number}	1.000
K_{number}	1.000	$K_{Wspacing}$	0.987
$K_{Sspacing}$	0.989	K_{gyp}	1.000
K_{gyp}	1.000	$K_{Wsheath}$	1.000
K_{sheath}	1.000	K_{exp}	1.000
K_{weight}	1.000	L_{uw}	1.900
K_{snow}	1.000	L_w	0.946
L_{us}	2.349		
L_s	2.058		

PRINT

Source: Canadian Wood Council

Part 9 Bracing Calculator

https://www.part9bracing.ca/

Part 9 Bracing Calculator

Background and Purpose

part9bracing.ca

Home Calculator Tutorials Resources About Legal

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

- Download

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Home | Calculator | Tutorials | Resources | About | Legal

- Beta Download
- FAQs
- Version History

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Beta Download

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

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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.

docs.google.com/spreadsheets/d/1t3pEHzvaLsz12dvz8aVGzhib4RitzXorhp4guY9cTzs/copy

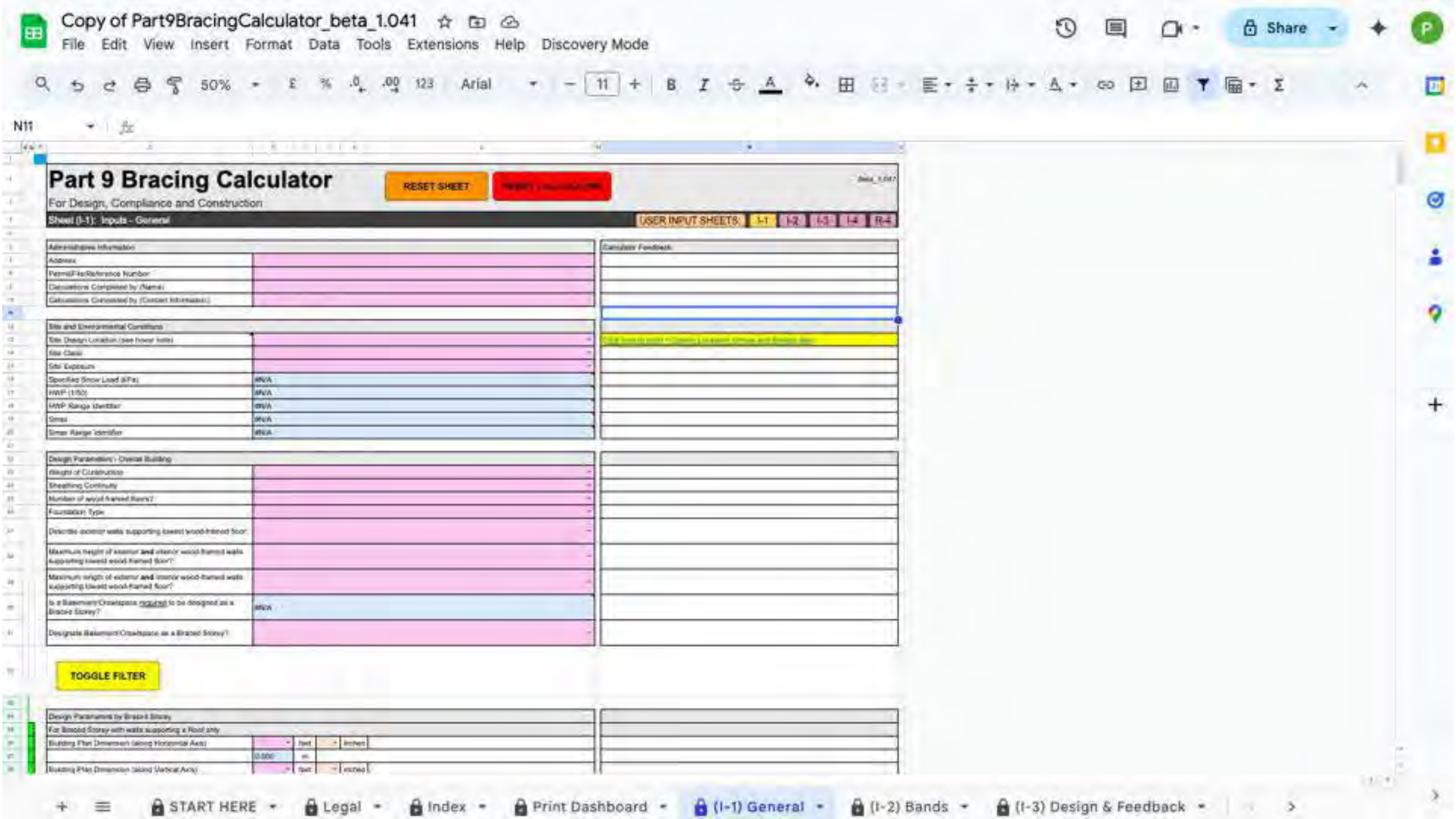
Google Sheets

Copy document

The attached Apps Script file and functionality will also be copied

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

Make a copy | View Apps Script file


Copy of Part9BracingCalculator_beta_1.041
File Edit View Insert Format Data Tools Extensions Help Discovery Mode
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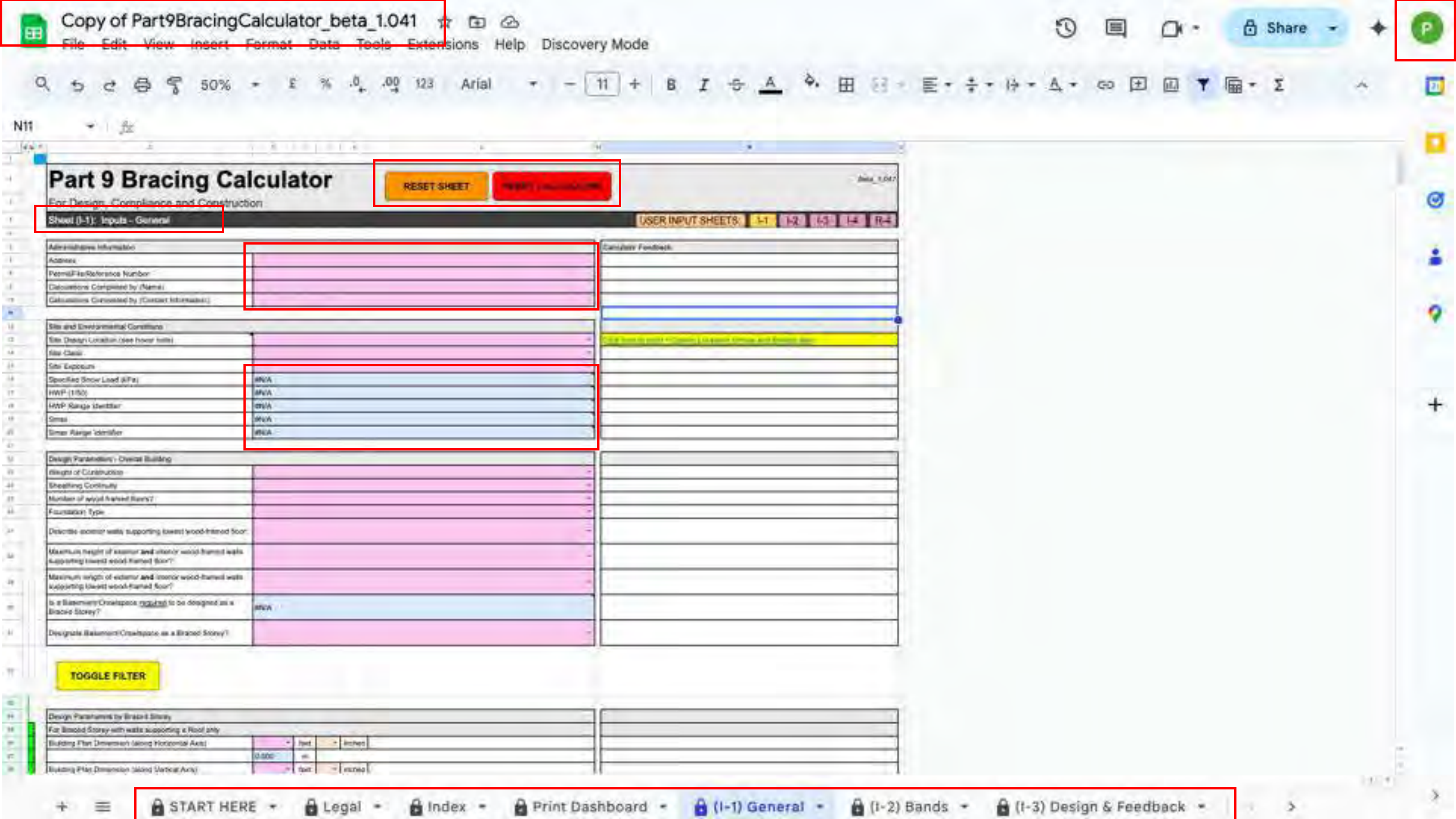
N11
Part 9 Bracing Calculator
RESET SHEET
For Design, Compliance and Construction
Sheet (I-1): Inputs - General
USER INPUT SHEETS: I-1 I-2 I-3 I-4 R-4
Calculator Feedback
Address
Perm#/File/Reference Number
Calculations Completed by (Name)
Site and Environmental Conditions
Site Design Location (see hover note)
Site Class
Site Exposure
Specified Snow Load (kPa)
HWP (1/50)
HWP Range Identifier
Smax
Smax Range Identifier
#N/A
Design Parameters - Overall Building
Weight of Construction
Sheathing Continuity
Foundation Type
Is a Basement/Crawlspace required to be designed as a Braced Storey?
Designate Basement/Crawlspace as a Braced Storey?
TOGGLE FILTER
Design Parameters by Braced Storey
For Braced Storey with walls supporting a Roof only
Building Plan Dimension (along Horizontal Axis)
feet
inches
Building Plan Dimension (along Vertical Axis)
START HERE
Legal
Index
Print Dashboard
(I-1) General
(I-2) Bands
(I-3) Design & Feedback


Copy of Part9BracingCalculator_beta_1.041
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RESET SHEET
Sheet (I-1): Inputs - General
USER INPUT SHEETS: I-1 I-2 I-3 I-4 R-4
Calculator Feedback
Site and Environmental Conditions
Design Parameters - Overall Building
#N/A
TOGGLE FILTER
Design Parameters by Braced Storey
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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	
	0.000	=			
Building Plan Dimension (along Vertical Axis)		feet		inches	
	0.000	=			
Eave-to-Ridge Roof Height		feet		inches	
	0.000	=			
Weight of Construction of Braced Storey					
For Braced Storey with walls supporting a Roof plus 1 Floor					
Building Plan Dimension (along Horizontal Axis)					
Building Plan Dimension (along Vertical Axis)					
Weight of Construction of Braced Storey					
For Braced Storey with walls supporting a Roof plus 2 Floors					
Building Plan Dimension (along Horizontal Axis)					
Building Plan Dimension (along Vertical Axis)					
Weight of Construction of Braced Storey					
For Basement/Crawlspace designed as a Relaxed Braced Storey					
With concrete foundation walls, extending to the underside of the first wood-framed floor, around the exterior					
Building Plan Dimension (along Horizontal Axis)					
Building Plan Dimension (along Vertical Axis)					
For Basement/Crawlspace designed as a Relaxed Braced Storey					
With cripple walls, or cripple walls and stepped concrete foundation walls, extending to the underside of the first wood-framed floor, around the exterior and interior					
Building Plan Dimension (along Horizontal Axis)					
Building Plan Dimension (along Vertical Axis)					

VIEW BRACED STOREYS SECTION SCHEMATIC

VIEW BUILDING PLAN DIMENSIONS SCHEMATIC

Compliance Pathway Report	
Is Part 9 Simplified Approach permitted?	#N/A
Is Part 9 Calculation Method (Tables) permitted?	#N/A
Is Part 9 Calculation Method (Alternative) permitted?	#N/A
Are Part 9 Foundation Cripple Walls permitted?	#N/A

Print Dashboard | (I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted L

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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	
	0.000	=			
Building Plan Dimension (along Vertical Axis)		feet		inches	
	0.000	=			
Eave-to-Ridge Roof Height		feet		inches	
	0.000	=			
Weight of Construction of Braced Storey					
For Braced Storey with walls supporting a Roof plus 1 Floor					
Building Plan Dimension (along Horizontal Axis)					
Building Plan Dimension (along Vertical Axis)					
Weight of Construction of Braced Storey					
For Braced Storey with walls supporting a Roof plus 2 Floors					
Building Plan Dimension (along Horizontal Axis)					
Building Plan Dimension (along Vertical Axis)					
Weight of Construction of Braced Storey					
For Basement/Crawlspace designed as a Relieved Braced Storey					
With concrete foundation walls, extending to the underside of the first wood-framed floor, around the exterior					
Building Plan Dimension (along Horizontal Axis)					
Building Plan Dimension (along Vertical Axis)					
For Basement/Crawlspace designed as a Relieved Braced Storey					
With cripple walls, or cripple walls and stepped concrete foundation walls, extending to the underside of the first wood-framed floor, around the exterior and interior					
Building Plan Dimension (along Horizontal Axis)					
Building Plan Dimension (along Vertical Axis)					

VIEW BRACED STOREYS SECTION SCHEMATIC

VIEW BUILDING PLAN DIMENSIONS SCHEMATIC

Compliance Pathway Report	
Is Part 9 Simplified Approach permitted?	#N/A
Is Part 9 Calculation Method (Tables) permitted?	#N/A
Is Part 9 Calculation Method (Alternative) permitted?	#N/A
Are Part 9 Foundation Cripple Walls permitted?	#N/A

Print Dashboard | (I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted L

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VIEW BUILDING PLAN DIMENSIONS SCHEMATIC

Compliance Pathway Report		
Is Part 9 Simplified Approach permitted?	#N/A	
Is Part 9 Calculation Method (Tables) permitted?	#N/A	
Is Part 9 Calculation Method (Alternative) permitted?	#N/A	
Are Part 9 Foundation Cripple Walls permitted?	#N/A	
Are Part 9 Additional System Considerations permitted?	#N/A	
Code Matrix Link	Link to Compliance Pathway Matrix	

Permit/File Number: | Calculations completed by: – |
<End of Sheet (I-1) General>

Print Dashboard | (I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted L

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Compliance Pathway Report		
Is Part 9 Simplified Approach permitted?	#N/A	
Is Part 9 Calculation Method (Tables) permitted?	#N/A	
Is Part 9 Calculation Method (Alternative) permitted?	#N/A	
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Part 9 Bracing Calculator

For Design, Compliance and Construction

RESET SHEET | RESET CALCULATOR

beta_1.041

Sheet (I-1): Inputs - General

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

Administrative Information	
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

Calculator Feedback:

Site and Environmental Conditions	
Site Design Location (see hover note)	
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

Click here to enter <Custom Location> climate and seismic data

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 Calculator

For Design, Compliance and Construction

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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	

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Print Dashboard | (I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted L

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Site and Environmental Conditions	
Site Design Location (see hover note)	N
Site Class	
Site Exposure	
Specified Snow Load (kPa)	
HWP (1/50)	
HWP Range Identifier	
Smax	
Smax Range Identifier	

Click here to enter <Custom Location> climate and seismic data

- Fort Nelson
- Nakusp
- Nanaimo
- Nelson
- New Westminster
- North Vancouver

Design Parameters - Overall Building	
Weight of Construction	
Sheathing Continuity	
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Site and Environmental Conditions	
Site Design Location (see hover note)	N
Site Class	
Site Exposure	
Specified Snow Load (kPa)	
HWP (1/50)	
HWP Range Identifier	
Smax	
Smax Range Identifier	

Click here to enter <Custom Location> climate and seismic data

- Fort Nelson
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Weight of Construction	
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Part 9 Bracing Calculator

For Design, Compliance and Construction

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Calculator Feedback:

Site and Environmental Conditions	
Site Design Location (see hover note)	Nanaimo
Site Class	
Site Exposure	
Specified Snow Load (kPa)	
HWP (1/50)	
HWP Range Identifier	
Smax	
Smax Range Identifier	

Click here to enter <Custom Location> climate and seismic data

Roof width assumed to be >4.3m.

- A
- B
- C
- D
- E
- Unknown

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?	

Print Dashboard | (I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted L

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For Design, Compliance and Construction

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Site and Environmental Conditions	
Site Design Location (see hover note)	Nanaimo
Site Class	
Site Exposure	
Specified Snow Load (kPa)	
HWP (1/50)	
HWP Range Identifier	
Smax	
Smax Range Identifier	

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- D
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Calculations Completed by (Contact Information)	twarner@boabc.org

Calculator Feedback:

Site and Environmental Conditions	
Site Design Location (see hover note)	Nanaimo
Site Class	Unknown
Site Exposure	
Specified Snow Load (kPa)	
HWP (1/50)	
HWP Range Identifier	
Smax	
Smax Range Identifier	

Click here to enter <Custom Location> climate and seismic data

Roof width assumed to be >4.3m.

Rough Terrain

Open/Unknown Terrain

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?	

Print Dashboard | (I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted L

Part 9 Bracing Calculator

For Design, Compliance and Construction

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Site Design Location (see hover note)	Nanaimo
Site Class	Unknown
Site Exposure	
Specified Snow Load (kPa)	
HWP (1/50)	
HWP Range Identifier	
Smax	
Smax Range Identifier	

Click here to enter <Custom Location> climate and seismic data

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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	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		
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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Permit/File/Reference Number	BP_9999999	
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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	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		
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?		

Calculations Completed by (Name)	Tim Warner	
Calculations Completed by (Contact Information)	twarner@hoabc.org	

Site and Environmental Conditions		
Site Design Location (see hover note)	Nanaimo	Click here to enter <Custom 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.
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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?		
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	
Designate Basement/Crawlspace as a Braced Storey?		

Normal Weight Construction

Heavy Weight Construction

TOGGLE FILTER

Print Dashboard | (I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted

Calculations Completed by (Name)	Tim Warner
Calculations Completed by (Contact Information)	twarner@hoabc.org

Site and Environmental Conditions		
Site Design Location (see hover note)	Nanaimo	Click here to enter <Custom 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		
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?		
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	
Designate Basement/Crawlspace as a Braced Storey?		

Normal Weight Construction

Heavy Weight Construction

TOGGLE FILTER

Print Dashboard | (I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted

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	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?		
Foundation Type		
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	
Designate Basement/Crawlspace as a Braced Storey?		

- Continuous
- Intermittent
- Continuous/Intermittent

TOGGLE FILTER

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	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?		
Foundation Type		
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	
Designate Basement/Crawlspace as a Braced Storey?		

Continuous

Intermittent

Continuous/Intermittent

TOGGLE FILTER

Print Dashboard | (I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted L

Calculations Completed by (Name)	Tim Warner	
Calculations Completed by (Contact Information)	twarner@hsabc.org	

Site and Environmental Conditions		
Site Design Location (see hover note)	Nanaimo	Click here to enter <Custom 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?		
Foundation Type		
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 <u>required</u> to be designed as a Braced Storey?	No	
Designate Basement/Crawlspace as a Braced Storey?		

0
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TOGGLE FILTER

Calculations Completed by (Name)	Tim Warner	
Calculations Completed by (Contact Information)	twarner@hsabc.org	

Site and Environmental Conditions		
Site Design Location (see hover note)	Nanaimo	Click here to enter <Custom 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?		
Foundation Type		
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	
Designate Basement/Crawlspace as a Braced Storey?		

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TOGGLE FILTER

Print Dashboard | (I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted L

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	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		
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	
Designate Basement/Crawlspace as a Braced Storey?		

Slab-on-Grade

Basement/Crawlspace

TOGGLE FILTER

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	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		
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	
Designate Basement/Crawlspace as a Braced Storey?		

Slab-on-Grade

Basement/Crawlspace

TOGGLE FILTER

Print Dashboard | (I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted L

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	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	
Designate Basement/Crawlspace as a Braced Storey?		

TOGGLE FILTER

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	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	
Designate Basement/Crawlspace as a Braced Storey?		

TOGGLE FILTER

Calculations Completed by (Name)	Tim Warner	
Calculations Completed by (Contact Information)	tWarner@bcabc.org	

Site and Environmental Conditions		
Site Design Location (see hover note)	Nanaimo	Click here to enter <Custom 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	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?		
Is a Basement/Crawlspace required to be designed as a Braced Storey?	No	
Designate Basement/Crawlspace as a Braced Storey?		

TOGGLE FILTER

Calculations Completed by (Name)	Tim Warner	
Calculations Completed by (Contact Information)	tWarner@bcabc.org	

Site and Environmental Conditions		
Site Design Location (see hover note)	Nanaimo	Click here to enter <Custom 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	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?		
Is a Basement/Crawlspace required to be designed as a Braced Storey?	No	
Designate Basement/Crawlspace as a Braced Storey?		

TOGGLE FILTER

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	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?		
Maximum length of exterior **and** interior wood-framed walls supporting lowest wood-framed floor?		
Is a Basement/Crawlspace <u>required</u> to be designed as a Braced Storey?		
Designate Basement/Crawlspace as a Braced Storey?		

- Lowest wood-framed floor is supported at exterior directly by foundation walls only
- Lowest wood-framed floor is supported at exterior directly by combination of foundation and wood-framed (cripple) walls
- Lowest wood-framed floor is supported at exterior directly by wood-framed (cripple) walls only

TOGGLE FILTER

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	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?		
Maximum length of exterior **and** interior wood-framed walls supporting lowest wood-framed floor?		
Is a Basement/Crawlspace <u>required</u> to be designed as a Braced Storey?		
Designate Basement/Crawlspace as a Braced Storey?		

- Lowest wood-framed floor is supported at exterior directly by foundation walls only
- Lowest wood-framed floor is supported at exterior directly by combination of foundation and wood-framed (cripple) walls
- Lowest wood-framed floor is supported at exterior directly by wood-framed (cripple) walls only

TOGGLE FILTER

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	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	
Designate Basement/Crawlspace as a Braced Storey?		

TOGGLE FILTER

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	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	
Designate Basement/Crawlspace as a Braced Storey?		

TOGGLE FILTER

TOGGLE FILTER

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						
For Braced Storey with walls supporting a Roof plus 1 Floor						
Building Plan Dimension (along Horizontal Axis)						
Building Plan Dimension (along Vertical Axis)						
Weight of Construction of Braced Storey						
For Braced Storey with walls supporting a Roof plus 2 Floors						
Building Plan Dimension (along Horizontal Axis)						
Building Plan Dimension (along Vertical Axis)						
Weight of Construction of Braced Storey						
For Basement/Crawlspace designed as a Relaxed Braced Storey						
With concrete foundation walls, extending to the underside of the first wood-framed floor, around the exterior						
Building Plan Dimension (along Horizontal Axis)						
Building Plan Dimension (along Vertical Axis)						

TOGGLE FILTER

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						
For Braced Storey with walls supporting a Roof plus 1 Floor						
Building Plan Dimension (along Horizontal Axis)						
Building Plan Dimension (along Vertical Axis)						
Weight of Construction of Braced Storey						
For Braced Storey with walls supporting a Roof plus 2 Floors						
Building Plan Dimension (along Horizontal Axis)						
Building Plan Dimension (along Vertical Axis)						
Weight of Construction of Braced Storey						
For Basement/Crawlspace designed as a Relaxed Braced Storey						
With concrete foundation walls, extending to the underside of the first wood-framed 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?	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	

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?	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	

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.
		m				
Building Plan Dimension (along Vertical Axis)		feet		inches		NOTE: Additional System Considerations unavailable.
		m				
Eave-to-Ridge Roof Height		feet		inches		
		m				
Weight of Construction of Braced Storey						

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VIEW BRACED STOREYS SECTION SCH

VIEW BUILDING PLAN DIMENSIONS SCHEMATIC

Compliance Pathway Report		
Is Part 9 Simplified Approach permitted?		
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	Link to Compliance Pathway Matrix	

	| Permit/File Number: BP_9999999 | Calculations completed by: Tim Warner - twarner@boabc.org |
	<End of Sheet (I-1) General>

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.
		m				
Building Plan Dimension (along Vertical Axis)		feet		inches		NOTE: Additional System Considerations unavailable.
		m				
Eave-to-Ridge Roof Height		feet		inches		
		m				
Weight of Construction of Braced Storey						

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VIEW BRACED STOREYS SECTION SCH

VIEW BUILDING PLAN DIMENSIONS SCHEMATIC

Compliance Pathway Report		
Is Part 9 Simplified Approach permitted?		
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	Link to Compliance Pathway Matrix	

	| Permit/File Number: BP_9999999 | Calculations completed by: Tim Warner - twarner@boabc.org |
	<End of Sheet (I-1) General>

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				
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?	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

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					
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?	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	

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				
Weight of Construction of Braced Storey						

Normal Weight Construction

Heavy Weight Construction

VIEW BRACED STOREYS SECTION SCH ... IEMATIC

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?	No
Code Matrix Link	Link to Compliance Pathway Matrix

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				
Weight of Construction of Braced Storey						

Normal Weight Construction

Heavy Weight Construction

VIEW BRACED STOREYS SECTION SCH ... IEMATIC

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?	No	
Code Matrix Link	Link to Compliance Pathway Matrix	

Permit/File Number: BP_9999999 | Calculations completed by: Tim Warner - twarner@boabc.org |
<End of Sheet (I-1) General>

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				
Weight of Construction of Braced Storey	Normal Weight Construction					

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?	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	

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				
Weight of Construction of Braced Storey	Normal Weight Construction					

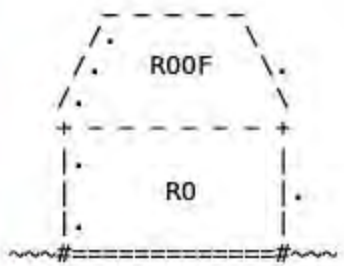
VIEW BRACED STOREYS SECTION SCHEMATIC

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?	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 Warner - twarner@boabc.org |
<End of Sheet (I-1) General>

Braced Storeys Schematic



with Eave-to-Ridge height of 4´11˝

with walls supporting Roof only

Link to Compliance Pathway Matrix

Braced Storey Diagrams

Braced Storey with walls supporting Roof only

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				
Weight of Construction of Braced Storey	Normal Weight Construction					

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?	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

(M-2) Compliance Matrix

pleted by: Tim Warner - twarner@boabc.org |

<End of Sheet (I-1) General>

Print Dashboard | (I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance

9 of 33 rows di

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				
Weight of Construction of Braced Storey	Normal Weight Construction					

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?	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

(M-2) Compliance Matrix

pleted by: Tim Warner - twarner@bcabc.org |

<End of Sheet (I-1) General>

Print Dashboard | (I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance

9 of 33 rows di

Part 9 Bracing Calculator

For Design, Compliance and Construction

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

User Entries

Location	Site and Environmental Conditions						Building Design Conditions						
	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	Weigh
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 Criteria											
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
High Wind and Seismic Forces	9.23.13.2(1)(i)	Yes		1.200			2.600				6.000		3	2	No
	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													
Foundation Cripple Walls	9.23.13.8.(2)	No					0.600								No
	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 Bracing Calculator

Part 9 Bracing Calculator

For Design, Compliance and Construction

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

User Entries

Location	Site and Environmental Conditions						Building Design Conditions						
	Exposure	HWP (1/50)	Snow Load (kPa)	Site Class	Smax	Smax C	ABC/vert. (m)	123/hor. (m)	Eave-to-Ridge	Sheathing Continuity	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

Code Path	BCBC Reference	Valid?	Trigger Criteria											
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
High Wind and Seismic Forces	9.23.13.2(1)(i)	Yes		1.200			2.600				6.000		3	2	No
	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													
Foundation Cripple Walls	9.23.13.8.(2)	No					0.600								No
	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 Bracing Calculator

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

<End of Sheet (M-2) Compliance Matrix>

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				
Weight of Construction of Braced Storey	Normal Weight Construction					

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?	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

(M-2) Compliance Matrix

pleted by: Tim Warner - twarner@boabc.org |

<End of Sheet (I-1) General>

Print Dashboard | (I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance

9 of 33 rows di

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				
Weight of Construction of Braced Storey	Normal Weight Construction					

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?	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

(M-2) Compliance Matrix

pleted by: Tim Warner - twarner@boabc.org |

<End of Sheet (I-1) General>

Print Dashboard | (I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance

9 of 33 rows di

Part 9 Bracing Calculator

For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER

beta_1.041

Sheet (I-2): Inputs - Bands

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

For Braced Storeys											
For walls supporting:	Abbreviation	Orthogonal Axis	Description of Entry Required	User Entries							
Roof Only	R	Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3... etc..)	Number of Bands:								
			Total distance between centerlines of end Bands:		feet		inches	0.000	feet		
			Average Spacing of Bands:	0.000	feet			0.000	m		
			Does the design utilise a setback wall in this orthogonal direction?								
		Bands labelled along Vertical Axis (Bands labelled A, B, C... etc.)	Number of Bands:								
			Total distance between centerlines of end Bands:		feet		inches	0.000	feet		
			Average Spacing of Bands:	0.000	feet			0.000	m		
			Does the design utilise a setback wall in this orthogonal direction?								
Roof plus 1 Floor	R+1F	Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3... etc..)	Number of Bands:								
			Total distance between centerlines of end Bands:								
			Average Spacing of Bands:								
		Bands labelled along Vertical Axis (Bands labelled A, B, C... etc.)	Number of Bands:								
			Total distance between centerlines of end Bands:								
			Average Spacing of Bands:								
Roof plus 2 Floors	R+2F	Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3... etc..)	Number of Bands:								
			Total distance between centerlines of end Bands:								
			Average Spacing of Bands:								
		Bands labelled along Vertical Axis (Bands labelled A, B, C... etc.)	Number of Bands:								
			Total distance between centerlines of end Bands:								
			Average Spacing of Bands:								

Calculator Feedback:
NOTE: Additional System Considerations unavailable.
NOTE: Additional System Considerations unavailable.

For a Basement/Crawlspace designed as a Relaxed Braced Storey
With concrete foundation walls, extending to the underside of the first wood-framed floor, around the exterior

Part 9 Bracing Calculator

For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER | beta_1.041

Sheet (I-2): Inputs - Bands

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

For Braced Storeys											
For walls supporting:	Abbreviation	Orthogonal Axis	Description of Entry Required	User Entries							
Roof Only	R	Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3... etc..)	Number of Bands:								
			Total distance between centerlines of end Bands:		feet		inches	0.000	feet		
			Average Spacing of Bands:	0.000	feet			0.000	m		
			Does the design utilise a setback wall in this orthogonal direction?								
		Bands labelled along Vertical Axis (Bands labelled A, B, C... etc.)	Number of Bands:								
			Total distance between centerlines of end Bands:		feet		inches	0.000	feet		
			Average Spacing of Bands:	0.000	feet			0.000	m		
			Does the design utilise a setback wall in this orthogonal direction?								
Roof plus 1 Floor	R+1F	Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3... etc..)	Number of Bands:								
			Total distance between centerlines of end Bands:								
			Average Spacing of Bands:								
		Bands labelled along Vertical Axis (Bands labelled A, B, C... etc.)	Number of Bands:								
			Total distance between centerlines of end Bands:								
			Average Spacing of Bands:								
Roof plus 2 Floors	R+2F	Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3... etc..)	Number of Bands:								
			Total distance between centerlines of end Bands:								
			Average Spacing of Bands:								
		Bands labelled along Vertical Axis (Bands labelled A, B, C... etc.)	Number of Bands:								
			Total distance between centerlines of end Bands:								
			Average Spacing of Bands:								

For a Basement/Crawlspace designed as a Relaxed Braced Storey
With concrete foundation walls, extending to the underside of the first wood-framed floor, around the exterior

Calculator Feedback:
NOTE: Additional System Considerations unavailable.
NOTE: Additional System Considerations unavailable.

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted Lengths Calcs

Part 9 Bracing Calculator

For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER

beta_1.041

Sheet (I-2): Inputs - Bands

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

For Braced Storeys											
For walls supporting:	Abbreviation	Orthogonal Axis	Description of Entry Required	User Entries							
Roof Only	R	Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3... etc..)	Number of Bands:								
			Total distance between centerlines of end Bands:		feet		inches	0.000	feet		
			Average Spacing of Bands:	0.000	feet			0.000	m		
			Does the design utilise a setback wall in this orthogonal direction?								
		Bands labelled along Vertical Axis (Bands labelled A, B, C... etc.)	Number of Bands:								
			Total distance between centerlines of end Bands:		feet		inches	0.000	feet		
			Average Spacing of Bands:	0.000	feet			0.000	m		
			Does the design utilise a setback wall in this orthogonal direction?								

Calculator Feedback:
NOTE: Additional System Considerations unavailable.
NOTE: Additional System Considerations unavailable.

Permit/File Number: BP_9999999 | Calculations completed by: Tim Warner - twarner@boabc.org |
<End of Sheet (I-2) Bands>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted

11 of 49 rows

Part 9 Bracing Calculator

For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER

beta_1.041

Sheet (I-2): Inputs - Bands

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

For Braced Storeys											
For walls supporting:	Abbreviation	Orthogonal Axis	Description of Entry Required	User Entries							
Roof Only	R	Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3... etc..)	Number of Bands:								
			Total distance between centerlines of end Bands:		feet		inches	0.000	feet		
			Average Spacing of Bands:	0.000	feet			0.000	m		
			Does the design utilise a setback wall in this orthogonal direction?								
		Bands labelled along Vertical Axis (Bands labelled A, B, C... etc.)	Number of Bands:								
			Total distance between centerlines of end Bands:		feet		inches	0.000	feet		
			Average Spacing of Bands:	0.000	feet			0.000	m		
			Does the design utilise a setback wall in this orthogonal direction?								

Calculator Feedback:
NOTE: Additional System Considerations unavailable.
NOTE: Additional System Considerations unavailable.

Permit/File Number: BP_9999999 | Calculations completed by: Tim Warner - twarner@boabc.org |
<End of Sheet (I-2) Bands>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted

11 of 49 rows

Part 9 Bracing Calculator

For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER

beta_1.041

Sheet (I-2): Inputs - Bands

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

For Braced Storeys											
For walls supporting:	Abbreviation	Orthogonal Axis	Description of Entry Required	User Entries							
Roof Only	R	Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3... etc..)	Number of Bands:	2							
			Total distance between centerlines of end Bands:	31	feet	2	inches	31.167	feet		
			Average Spacing of Bands:	31.167	feet			9.500	m		
			Does the design utilise a setback wall in this orthogonal direction?	-							
		Bands labelled along Vertical Axis (Bands labelled A, B, C... etc.)	Number of Bands:	2							
			Total distance between centerlines of end Bands:	24	feet	7	inches	24.583	feet		
			Average Spacing of Bands:	24.583	feet			7.493	m		
			Does the design utilise a setback wall in this orthogonal direction?	-							

Calculator Feedback:
NOTE: Additional System Considerations unavailable.
NOTE: Additional System Considerations unavailable.

Permit/File Number: BP_9999999 | Calculations completed by: Tim Warner - twarner@boabc.org |
<End of Sheet (I-2) Bands>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted

11 of 49 rows

Part 9 Bracing Calculator

For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER | beta_1.041

Sheet (I-2): Inputs - Bands

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

For Braced Storeys											
For walls supporting:	Abbreviation	Orthogonal Axis	Description of Entry Required	User Entries							
Roof Only	R	Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3... etc..)	Number of Bands:	2							
			Total distance between centerlines of end Bands:	31	feet	2	inches	31.167	feet		
			Average Spacing of Bands:	31.167	feet			9.500	m		
			Does the design utilise a setback wall in this orthogonal direction?	-							
		Bands labelled along Vertical Axis (Bands labelled A, B, C... etc.)	Number of Bands:	2							
			Total distance between centerlines of end Bands:	24	feet	7	inches	24.583	feet		
			Average Spacing of Bands:	24.583	feet			7.493	m		
			Does the design utilise a setback wall in this orthogonal direction?	-							

Calculator Feedback:
NOTE: Additional System Considerations unavailable.
NOTE: Additional System Considerations unavailable.

Permit/File Number: BP_9999999 | Calculations completed by: Tim Warner - twarner@boabc.org |
<End of Sheet (I-2) Bands>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted

11 of 49 rows

Part 9 Bracing Calculator

For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER

beta_1.041

Sheet (I-2): Inputs - Bands

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

For Braced Storeys											Calculator Feedback:
For walls supporting:	Abbreviation	Orthogonal Axis	Description of Entry Required	User Entries							
Roof Only	R	Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3... etc..)	Number of Bands:	2							
			Total distance between centerlines of end Bands:	35	feet	2	inches	35.167	feet		
			Average Spacing of Bands:	35.167	feet			10.719	m		ERROR: Maximum average Band spacing exceeded!
			Does the design utilise a setback wall in this orthogonal direction?								NOTE: Additional System Considerations unavailable.
		Bands labelled along Vertical Axis (Bands labelled A, B, C... etc.)	Number of Bands:	2							
			Total distance between centerlines of end Bands:	24	feet	7	inches	24.583	feet		
			Average Spacing of Bands:	24.583	feet			7.493	m		
			Does the design utilise a setback wall in this orthogonal direction?								NOTE: Additional System Considerations unavailable.

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

<End of Sheet (I-2) Bands>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted

11 of 49 rows

Part 9 Bracing Calculator

For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER | beta_1.041

Sheet (I-2): Inputs - Bands

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

For Braced Storeys												Calculator Feedback:
For walls supporting:	Abbreviation	Orthogonal Axis	Description of Entry Required	User Entries								
Roof Only	R	Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3... etc..)	Number of Bands:	2								
			Total distance between centerlines of end Bands:	35	feet	2	inches	35.167	feet			
			Average Spacing of Bands:	35.167	feet			10.719	m			ERROR: Maximum average Band spacing exceeded!
			Does the design utilise a setback wall in this orthogonal direction?									NOTE: Additional System Considerations unavailable.
		Bands labelled along Vertical Axis (Bands labelled A, B, C... etc.)	Number of Bands:	2								
			Total distance between centerlines of end Bands:	24	feet	7	inches	24.583	feet			
			Average Spacing of Bands:	24.583	feet			7.493	m			
			Does the design utilise a setback wall in this orthogonal direction?									NOTE: Additional System Considerations unavailable.

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

<End of Sheet (I-2) Bands>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted

11 of 49 rows

Part 9 Bracing Calculator

For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER | beta_1.041

Sheet (I-2): Inputs - Bands

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

For Braced Storeys											
For walls supporting:	Abbreviation	Orthogonal Axis	Description of Entry Required	User Entries							
Roof Only	R	Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3... etc..)	Number of Bands:	2							
			Total distance between centerlines of end Bands:	31	feet	2	inches	31.167	feet		
			Average Spacing of Bands:	31.167	feet			9.500	m		
			Does the design utilise a setback wall in this orthogonal direction?								
		Bands labelled along Vertical Axis (Bands labelled A, B, C... etc.)	Number of Bands:	2							
			Total distance between centerlines of end Bands:	24	feet	7	inches	24.583	feet		
			Average Spacing of Bands:	24.583	feet			7.493	m		
			Does the design utilise a setback wall in this orthogonal direction?								

Yes

No

Calculator Feedback:
NOTE: Additional System Considerations unavailable.
NOTE: Additional System Considerations unavailable.

Permit/File Number: BP_9999999 | Calculations completed by: Tim [redacted]warner@boabc.org |
<End of Sheet (I-2) Bands>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted

11 of 49 rows

Part 9 Bracing Calculator

For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER | beta_1.041

Sheet (I-2): Inputs - Bands

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

For Braced Storeys											
For walls supporting:	Abbreviation	Orthogonal Axis	Description of Entry Required	User Entries							
Roof Only	R	Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3... etc..)	Number of Bands:	2							
			Total distance between centerlines of end Bands:	31	feet	2	inches	31.167	feet		
			Average Spacing of Bands:	31.167	feet			9.500	m		
			Does the design utilise a setback wall in this orthogonal direction?								
		Bands labelled along Vertical Axis (Bands labelled A, B, C... etc.)	Number of Bands:	2							
			Total distance between centerlines of end Bands:	24	feet	7	inches	24.583	feet		
			Average Spacing of Bands:	24.583	feet			7.493	m		
			Does the design utilise a setback wall in this orthogonal direction?								

Yes

No

Calculator Feedback:
NOTE: Additional System Considerations unavailable.
NOTE: Additional System Considerations unavailable.

Permit/File Number: BP_9999999	Calculations completed by: Tim [redacted]@boabc.org

<End of Sheet (I-2) Bands>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted

11 of 49 rows

Part 9 Bracing Calculator

For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER | beta_1.041

Sheet (I-2): Inputs - Bands

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

For Braced Storeys											
For walls supporting:	Abbreviation	Orthogonal Axis	Description of Entry Required	User Entries							
Roof Only	R	Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3... etc..)	Number of Bands:	2							
			Total distance between centerlines of end Bands:	31	feet	2	inches	31.167	feet		
			Average Spacing of Bands:	31.167	feet			9.500	m		
			Does the design utilise a setback wall in this orthogonal direction?								
		Bands labelled along Vertical Axis (Bands labelled A, B, C... etc.)	Number of Bands:	2							
			Total distance between centerlines of end Bands:	24	feet	7	inches	24.583	feet		
			Average Spacing of Bands:	24.583	feet			7.493	m		
			Does the design utilise a setback wall in this orthogonal direction?	Yes							

Calculator Feedback:
NOTE: Additional System Considerations unavailable.
NOTE: Additional System Considerations unavailable.

Permit/File Number: BP_9999999 | Calculations completed by: Tim Warner - twarner@boabc.org |
<End of Sheet (I-2) Bands>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted

11 of 49 row

Part 9 Bracing Calculator

For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER | beta_1.041

Sheet (I-2): Inputs - Bands

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

For Braced Storeys											
For walls supporting:	Abbreviation	Orthogonal Axis	Description of Entry Required	User Entries							Calculator Feedback:
Roof Only	R	Bands labelled along Horizontal Axis (Bands labelled 1, 2, 3... etc..)	Number of Bands:	2							
			Total distance between centerlines of end Bands:	31	feet	2	inches	31.167	feet		
			Average Spacing of Bands:	31.167	feet			9.500	m		
			Does the design utilise a setback wall in this orthogonal direction?								NOTE: Additional System Considerations unavailable.
		Bands labelled along Vertical Axis (Bands labelled A, B, C... etc.)	Number of Bands:	2							
			Total distance between centerlines of end Bands:	24	feet	7	inches	24.583	feet		
			Average Spacing of Bands:	24.583	feet			7.493	m		
			Does the design utilise a setback wall in this orthogonal direction?	Yes							NOTE: Additional System Considerations unavailable.

Permit/File Number: BP_9999999 | Calculations completed by: Tim Warner - twarner@boabc.org |
<End of Sheet (I-2) Bands>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted

11 of 49 row

Part 9 Bracing Calculator

For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER

beta_1.041

Sheet (I-3): Inputs - Design & Feedback

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

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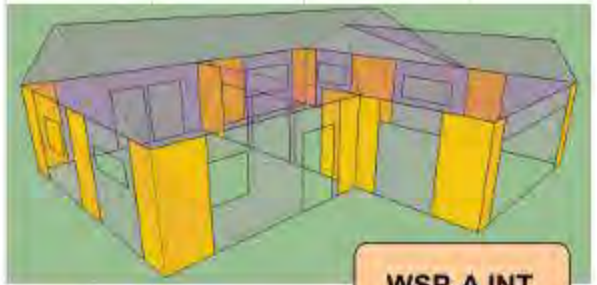

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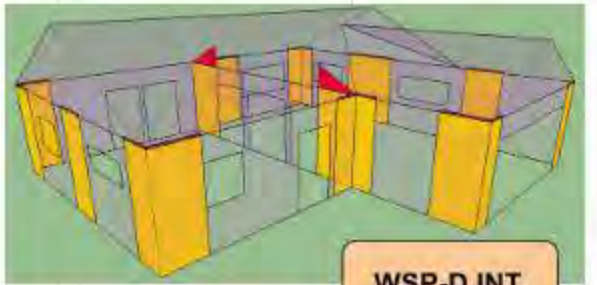

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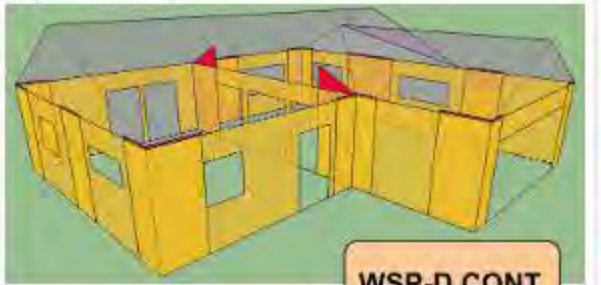


WSP-D CONT.

AUTOFILL BAND ID

For Braced Storeys

Primary Bracing Details						Secondary Bracing Details		Caclulation Method (Tables) Required Bracing Length				Calculation Method (Alternative) Required Bracing Length			
Band ID		Building Dimension || Band (m)	Reference Framing Type	Sheathing Continuity	Bracing into Roof System	Interior/Reverse Drywall	Design Choice	(m)	(ft)	% of || Building Dimension	Design Driver	(m)	(ft)	% of || Building Dimension	Design Driver
R		8.001			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R		8.001			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R		-			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R		-			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R		-			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

Part 9 Bracing Calculator

For Design, Compliance and Construction

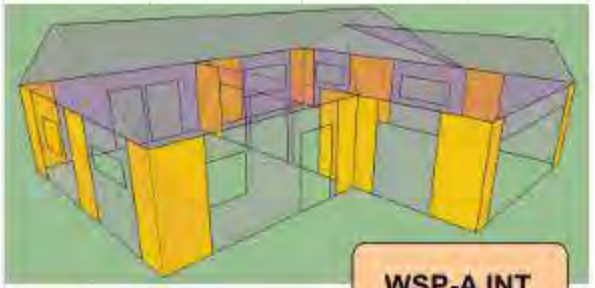
RESET SHEET | TOGGLE FILTER

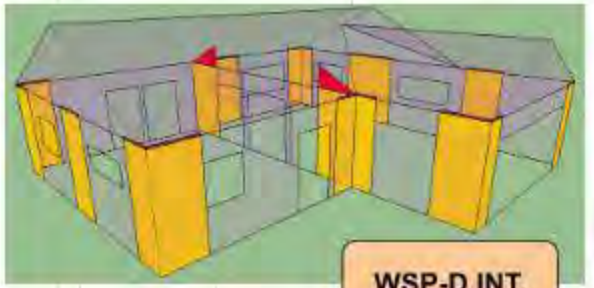
beta_1.041

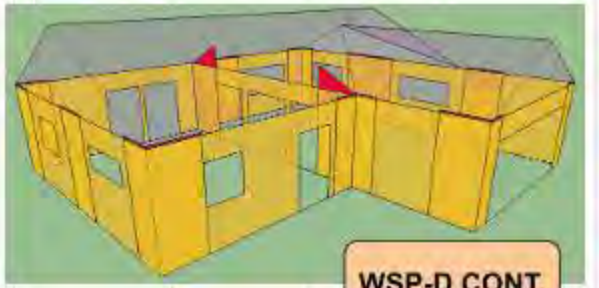
Sheet (I-3): Inputs - Design & Feedback

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

Autoload Options - Curated for Contractors







AUTOFILL BAND ID

For Braced Storeys

Primary Bracing Details						Secondary Bracing Details		Caclulation Method (Tables) Required Bracing Length				Calculation Method (Alternative) Required Bracing Length			
Band ID		Building Dimension || Band (m)	Reference Framing Type	Sheathing Continuity	Bracing into Roof System	Interior/Reverse Drywall	Design Choice	(m)	(ft)	% of || Building Dimension	Design Driver	(m)	(ft)	% of || Building Dimension	Design Driver
R		8.001			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R		8.001			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R		-			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R		-			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R		-			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

Part 9 Bracing Calculator

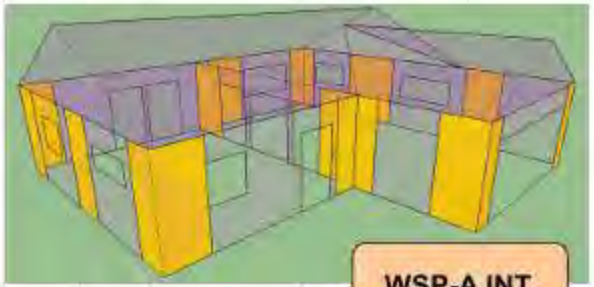
For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER

Sheet (I-3): Inputs - Design & Feedback

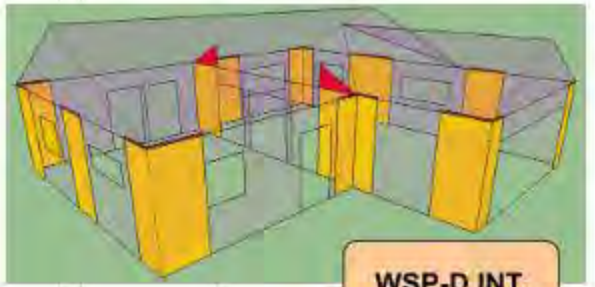
USER INPUT SHEETS: I-1 | I-2 | I-3 | I-4 | R-4

Autoload Options - Curated for Contractors



WSP-A INT.

WSP-A CONT.



WSP-D INT.

WSP-D CONT.

AUTOFILL BAND ID

For Braced Storeys

Primary Bracing Details						Secondary Bracing Details		Caclulation Method (Tables) Required Bracing Length				Calculation Method (Alternative) Required Bracing Length			
Band ID		Building Dimension || Band (m)	Reference Framing Type	Sheathing Continuity	Bracing into Roof System	Interior/Reverse Drywall	Design Choice	(m)	(ft)	% of || Building Dimension	Design Driver	(m)	(ft)	% of || Building Dimension	Design Driver
R		8.001			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R		8.001			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R		10.008			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R		10.008			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

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

<End of Sheet (I-3) Design & Feedback>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted

10 of 118 rc

Part 9 Bracing Calculator

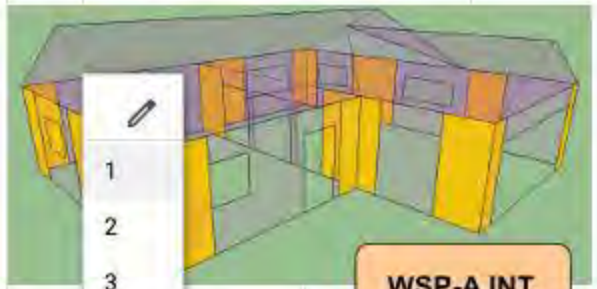
For Design, Compliance and Construction

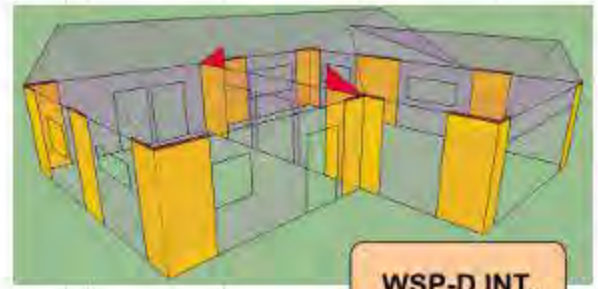
RESET SHEET | TOGGLE FILTER

Sheet (I-3): Inputs - Design & Feedback

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

Autoload Options - Curated for Contractors





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A L BAND ID

For Bra ys

	Primary Bracing Details				Secondary Bracing Details		Caclulation Method (Tables) Required Bracing Length				Calculation Method (Alternative) Required Bracing Length			
Ban	Building imension || Band (m)	Reference Framing Type	Sheathing Continuity	Bracing into Roof System	Interior/Reverse Drywall	Design Choice	(m)	(ft)	% of || Building Dimension	Design Driver	(m)	(ft)	% of || Building Dimension	Design Driver
R	8.001			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	8.001			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	10.008			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	10.008			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

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

<End of Sheet (I-3) Design & Feedback>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted

10 of 118 rc

Part 9 Bracing Calculator

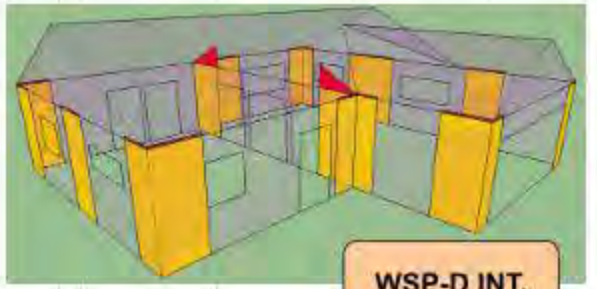
For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER

Sheet (I-3): Inputs - Design & Feedback

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

Autoload Options - Curated for Contractors



BAND ID

For Br... ...ys

	Primary Bracing Details					Secondary Bracing Details		Caclulation Method (Tables) Required Bracing Length				Calculation Method (Alternative) Required Bracing Length			
Bas...		Building ...mension || Band (m)	Reference Framing Type	Sheathing Continuity	Bracing into Roof System	Interior/Reverse Drywall	Design Choice	(m)	(ft)	% of || Building Dimension	Design Driver	(m)	(ft)	% of || Building Dimension	Design Driver
R	1	8.001			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R		8.001			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R		10.008			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R		10.008			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

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

<End of Sheet (I-3) Design & Feedback>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted

10 of 118 rc

Part 9 Bracing Calculator

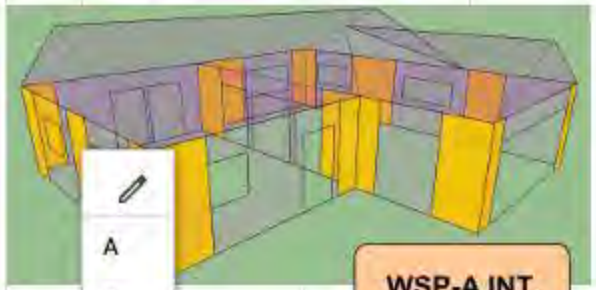
For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER

Sheet (I-3): Inputs - Design & Feedback

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

Autoload Options - Curated for Contractors



WSP-A INT.

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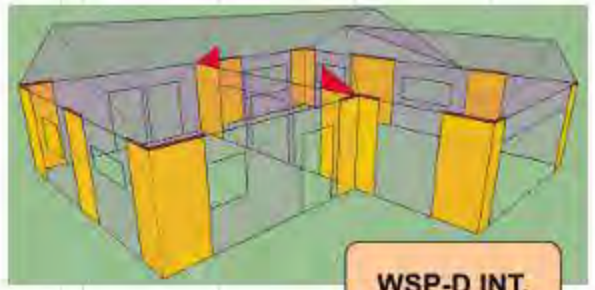

WSP-D INT.

WSP-D CONT.

A LL BAND ID

For Bra ys

Ban	Primary Bracing Details: Building Dimension || Band (m)	Reference Framing Type	Sheathing Continuity	Bracing into Roof System	Secondary Bracing Details: Interior/Reverse Drywall	Design Choice	Caclulation Method (Tables) Required Bracing Length: (m)	(ft)	% of || Building Dimension	Design Driver	Calculation Method (Alternative) Required Bracing Length: (m)	(ft)	% of || Building Dimension	Design Driver
R	8.001			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	8.001			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	10.008			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	10.008			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

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

<End of Sheet (I-3) Design & Feedback>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjuste

10 of 118 r

Part 9 Bracing Calculator

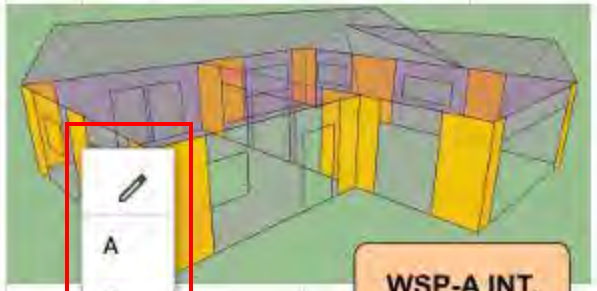
For Design, Compliance and Construction

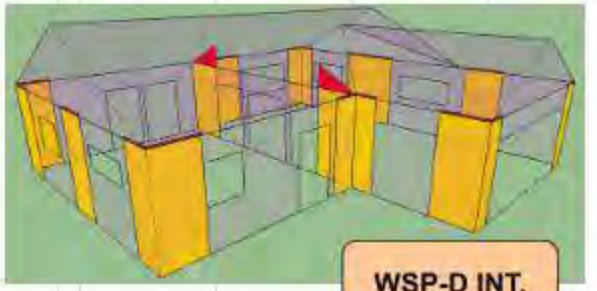
RESET SHEET | TOGGLE FILTER

Sheet (I-3): Inputs - Design & Feedback

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

Autoload Options - Curated for Contractors





A LL BAND ID

For Bra ys

	Primary Bracing Details				Secondary Bracing Details		Caclulation Method (Tables) Required Bracing Length				Calculation Method (Alternative) Required Bracing Length			
Ban	Building Dimension || Band (m)	Reference Framing Type	Sheathing Continuity	Bracing into Roof System	Interior/Reverse Drywall	Design Choice	(m)	(ft)	% of || Building Dimension	Design Driver	(m)	(ft)	% of || Building Dimension	Design Driver
R	8.001			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	8.001			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	10.008			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	10.008			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

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

<End of Sheet (I-3) Design & Feedback>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted

10 of 118 r

Part 9 Bracing Calculator

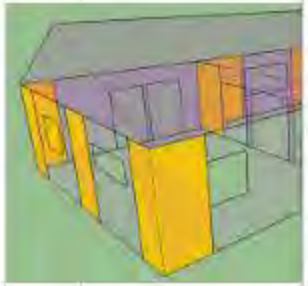
For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER

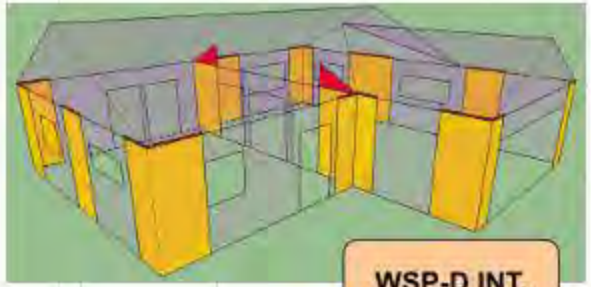
Sheet (I-3): Inputs - Des ck

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

Autoload Options - Curated fo



WSP-A CONT.



WSP-D INT.

WSP-D CONT.

AUTOFILL BAND

GWB-A
GWB-B
GWB-C
GWB-D
GWB-A-2
GWB-B-2
GWB-C-2
GWB-D-2
WSP-A
WSP-B
WSP-C
WSP-D
WSP-E
CFW-FH

For Braced Storeys

Band ID		Building Dimension || Band (m)	Sheathing Continuity	Bracing into Roof System	Secondary Bracing Details: Interior/Reverse Drywall	Secondary Bracing Details: Design Choice	Calculation Method (Tables) Required Bracing Length: (m)	(ft)	% of || Building Dimension	Design Driver	Calculation Method (Alternative) Required Bracing Length: (m)	(ft)	% of || Building Dimension	Design Driver
R	1	8.001		N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	2	8.001		N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	A	10.008		N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	B	10.008		N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

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

<End of Sheet (I-3) Design & Feedback>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjustec

10 of 118 rc

Part 9 Bracing Calculator

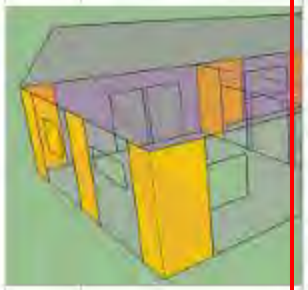
For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER

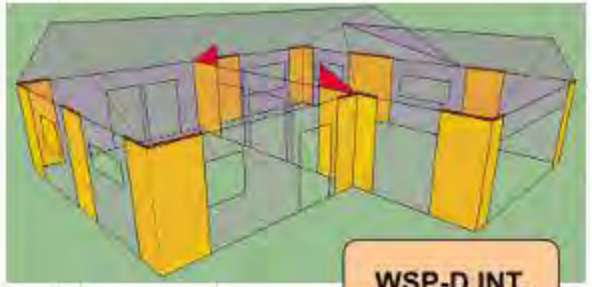
Sheet (I-3): Inputs - Design & Feedback

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

Autoload Options - Curated for



WSP-A CONT.



WSP-D INT.

WSP-D CONT.

AUTOFILL BAND

GWB-A
GWB-B
GWB-C
GWB-D
GWB-A-2
GWB-B-2
GWB-C-2
GWB-D-2
WSP-A
WSP-B
WSP-C
WSP-D
WSP-E
CFW-FH

For Braced Storeys

Band ID		Building Dimension || Band (m)	Sheathing Continuity	Bracing into Roof System	Secondary Bracing Details: Interior/Reverse Drywall	Secondary Bracing Details: Design Choice	Calculation Method (Tables) Required Bracing Length: (m)	(ft)	% of || Building Dimension	Design Driver	Calculation Method (Alternative) Required Bracing Length: (m)	(ft)	% of || Building Dimension	Design Driver
R	1	8.001		N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	2	8.001		N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	A	10.008		N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	B	10.008		N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

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

<End of Sheet (I-3) Design & Feedback>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted

10 of 118 rc

Part 9 Bracing Calculator

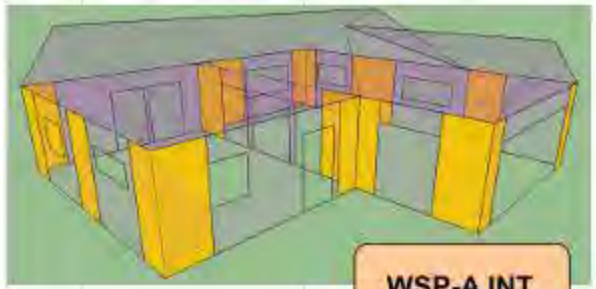
For Design, Compliance and Construction

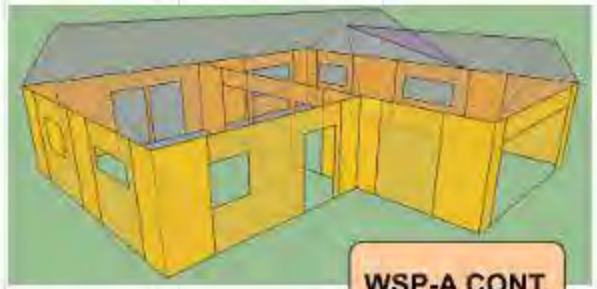
RESET SHEET | TOGGLE FILTER

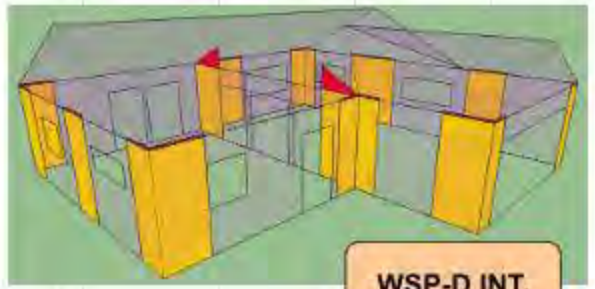
Sheet (I-3): Inputs - Design & Feedback

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

Autoload Options - Curated for Contractors







AUTOFILL BAND ID

For Braced Storeys

Primary Bracing Det					Secondary Bracing Details		Caclulation Method (Tables) Required Bracing Length				Calculation Method (Alternative) Required Bracing Length			
Band ID		Building Dimension || Band (m)	Reference Framing Type	acing into f System	Interior/Reverse Drywall	Design Choice	(m)	(ft)	% of || Building Dimension	Design Driver	(m)	(ft)	% of || Building Dimension	Design Driver
R	1	8.001	WSP-A	N/A	Optional		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	2	8.001		N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	A	10.008		N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	B	10.008		N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

Continuous

Intermittent

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

<End of Sheet (I-3) Design & Feedback>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjuste

10 of 118 r

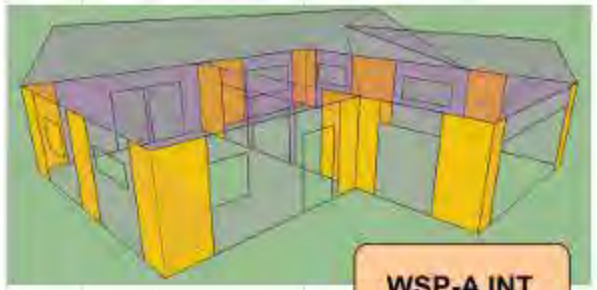
For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER

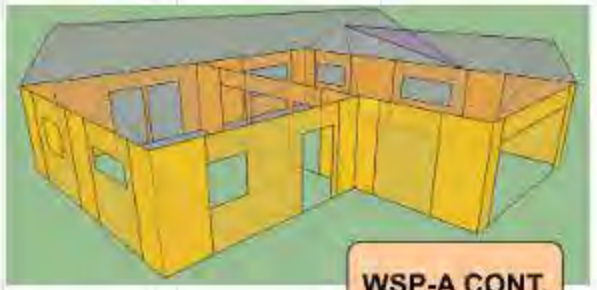
Sheet (I-3): Inputs - Design & Feedback

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

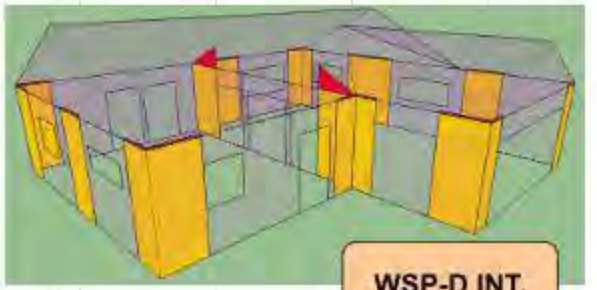
Autoload Options - Curated for Contractors



WSP-A INT.



WSP-A CONT.



WSP-D INT.

WSP-D CONT.

AUTOFILL BAND ID

For Braced Storeys

Primary Bracing Details						Secondary Bracing Details		Caclulation Method (Tables) Required Bracing Length				Calculation Method (Alternative) Required Bracing Length			
Band ID		Building Dimension || Band (m)	Reference Framing Type		acing into f System	Interior/Reverse Drywall	Design Choice	(m)	(ft)	% of || Building Dimension	Design Driver	(m)	(ft)	% of || Building Dimension	Design Driver
R	1	8.001	WSP-A		N/A	Optional		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	2	8.001			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	A	10.008			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	B	10.008			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

Continuous

Intermittent

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

<End of Sheet (I-3) Design & Feedback>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjuste

10 of 118 r

Part 9 Bracing Calculator

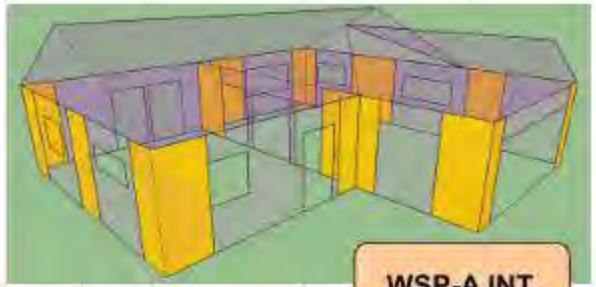
For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER

Sheet (I-3): Inputs - Design & Feedback

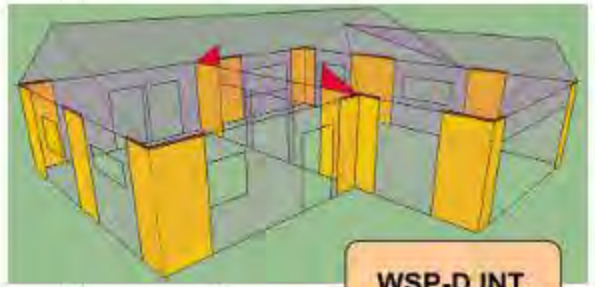
USER INPUT SHEETS: I-1 | I-2 | I-3 | I-4 | R-4

Autoload Options - Curated for Contractors



WSP-A INT.

WSP-A CONT.



WSP-D INT.

WSP-D CONT.

AUTOFILL BAND ID

For Braced Storeys

Primary Bracing Details						Second		Caclulation Method (Tables) Required Bracing Length				Calculation Method (Alternative) Required Bracing Length			
Band ID		Building Dimension || Band (m)	Reference Framing Type	Sheathing Continuity	Bracing into Roof System	Interior/Reverse Drywall		(m)	(ft)	% of || Building Dimension	Design Driver	(m)	(ft)	% of || Building Dimension	Design Driver
R	1	8.001	WSP-A	Continuous	N/A	Optional		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	2	8.001			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	A	10.008			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	B	10.008			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

Installed

Omitted, blocked wall

Omitted, unblocked wall

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

<End of Sheet (I-3) Design & Feedback>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjuste

10 of 118 ro

Part 9 Bracing Calculator

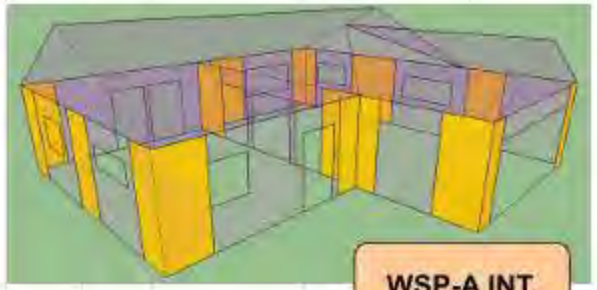
For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER

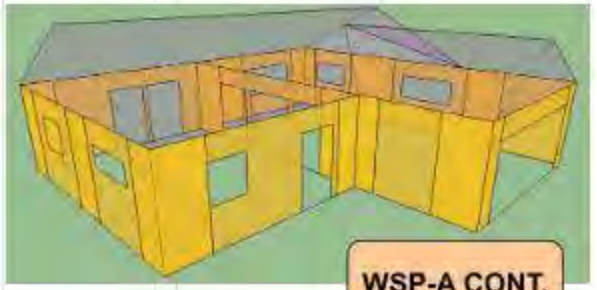
Sheet (I-3): Inputs - Design & Feedback

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

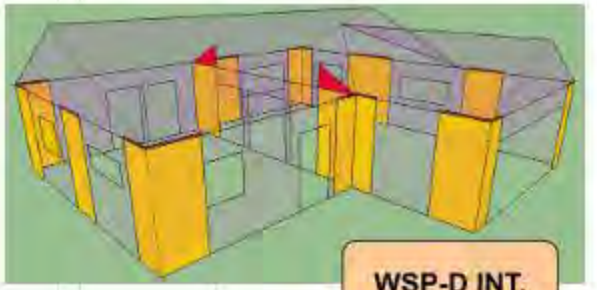
Autoload Options - Curated for Contractors



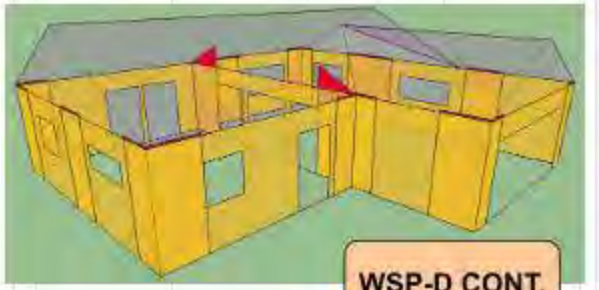
WSP-A INT.



WSP-A CONT.



WSP-D INT.



WSP-D CONT.

AUTOFILL BAND ID

For Braced Storeys

Primary Bracing Details						Secondary Bracing Details		Calculation Method (Tables) Required Bracing Length				Calculation Method (Alternative) Required Bracing Length			
Band ID		Building Dimension || Band (m)	Reference Framing Type	Sheathing Continuity	Bracing into Roof System	Interior/Reverse Drywall		(m)	(ft)	% of || Building Dimension	Design Driver	(m)	(ft)	% of || Building Dimension	Design Driver
R	1	8.001	WSP-A	Continuous	N/A	Optional		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	2	8.001			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	A	10.008			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	B	10.008			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

Installed

Omitted, blocked wall

Omitted, unblocked wall

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

<End of Sheet (I-3) Design & Feedback>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted

10 of 118 rc

Part 9 Bracing Calculator

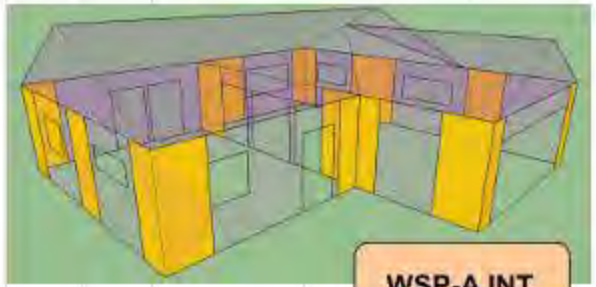
For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER

Sheet (I-3): Inputs - Design & Feedback

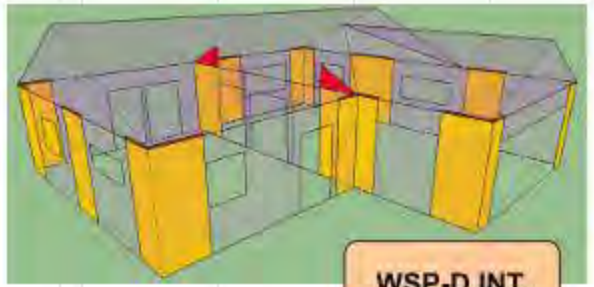
USER INPUT SHEETS: I-1 | I-2 | I-3 | I-4 | R-4

Autoload Options - Curated for Contractors



WSP-A INT.

WSP-A CONT.



WSP-D INT.

WSP-D CONT.

AUTOFILL BAND ID

For Braced Storeys

Primary Bracing Details						Secondary Bracing Details		Caclulation Method (Tables) Required Bracing Length				Calculation Method (Alternative) Required Bracing Length			
Band ID		Building Dimension || Band (m)	Reference Framing Type	Sheathing Continuity	Bracing into Roof System	Interior/Reverse Drywall	Design Choice	(m)	(ft)	% of || Building Dimension	Design Driver	(m)	(ft)	% of || Building Dimension	Design Driver
R	1	8.001	WSP-A	Continuous	N/A	Optional	Installed	2.352	7.717	29%	SEISMIC	2.081	6.826	26%	SEISMIC
R	2	8.001			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	A	10.008			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	B	10.008			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

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

<End of Sheet (I-3) Design & Feedback>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjuste

10 of 118 r

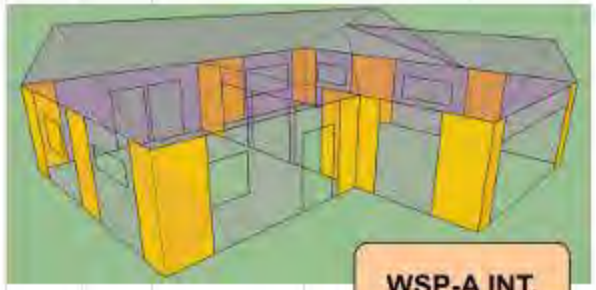
For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER

Sheet (I-3): Inputs - Design & Feedback

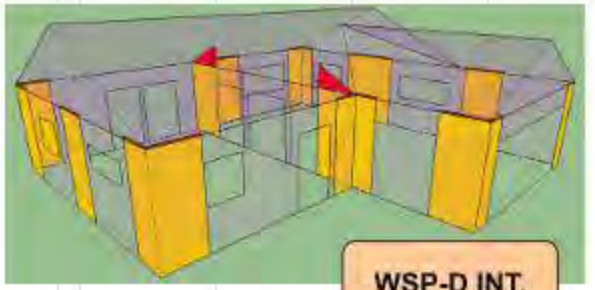
USER INPUT SHEETS: I-1 | I-2 | I-3 | I-4 | R-4

Autoload Options - Curated for Contractors



WSP-A INT.

WSP-A CONT.



WSP-D INT.

WSP-D CONT.

AUTOFILL BAND ID

For Braced Storeys

Primary Bracing Details						Secondary Bracing Details		Caclulation Method (Tables) Required Bracing Length				Calculation Method (Alternative) Required Bracing Length			
Band ID		Building Dimension || Band (m)	Reference Framing Type	Sheathing Continuity	Bracing into Roof System	Interior/Reverse Drywall	Design Choice	(m)	(ft)	% of || Building Dimension	Design Driver	(m)	(ft)	% of || Building Dimension	Design Driver
R	1	8.001	WSP-A	Continuous	N/A	Optional	Installed	2.352	7.717	29%	SEISMIC	2.081	6.826	26%	SEISMIC
R	2	8.001			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	A	10.008			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
R	B	10.008			N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

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

<End of Sheet (I-3) Design & Feedback>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjuste

10 of 118 r

Part 9 Bracing Calculator

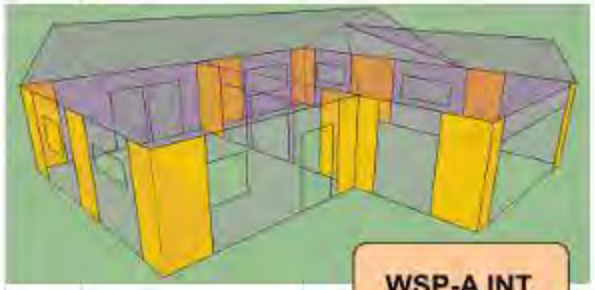
For Design, Compliance and Construction

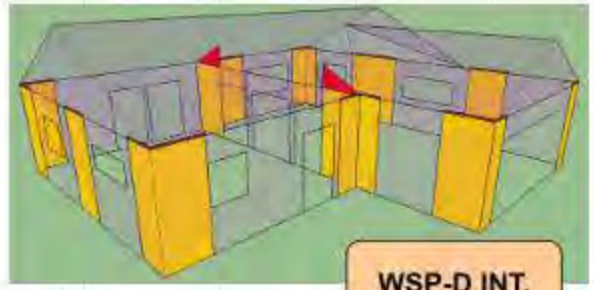
RESET SHEET | TOGGLE FILTER

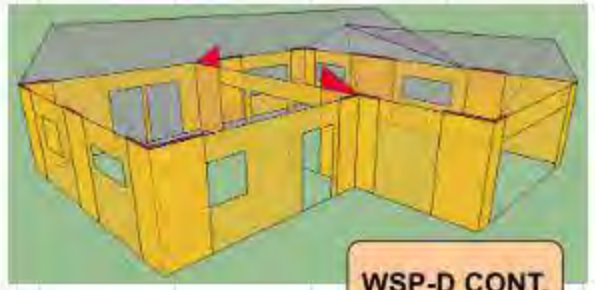
Sheet (I-3): Inputs - Design & Feedback

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

Autoload Options - Curated for Contractors







AUTOFILL BAND ID

For Braced Storeys

Primary Bracing Details						Secondary Bracing Details		Caculation Method (Tables) Required Bracing Length				Calculation Method (Alternative) Required Bracing Length			
Band ID		Building Dimension || Band (m)	Reference Framing Type	Sheathing Continuity	Bracing into Roof System	Interior/Reverse Drywall	Design Choice	(m)	(ft)	% of || Building Dimension	Design Driver	(m)	(ft)	% of || Building Dimension	Design Driver
R	1	8.001	WSP-A	Intermittent	N/A	Optional	Installed	2.705	8.875	34%	SEISMIC	2.393	7.850	30%	SEISMIC
R	2	8.001	WSP-A	Intermittent	N/A	Optional	Installed	2.705	8.875	34%	SEISMIC	2.393	7.850	30%	SEISMIC
R	A	10.008	WSP-A	Intermittent	N/A	Optional	Installed	2.672	8.768	27%	SEISMIC	2.366	7.763	24%	SEISMIC
R	B	10.008	WSP-A	Intermittent	N/A	Optional	Installed	2.672	8.768	27%	SEISMIC	2.366	7.763	24%	SEISMIC

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

<End of Sheet (I-3) Design & Feedback>

Part 9 Bracing Calculator

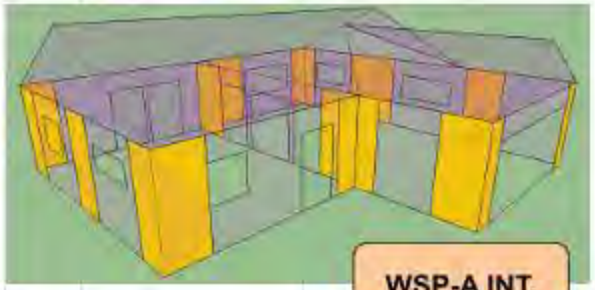
For Design, Compliance and Construction

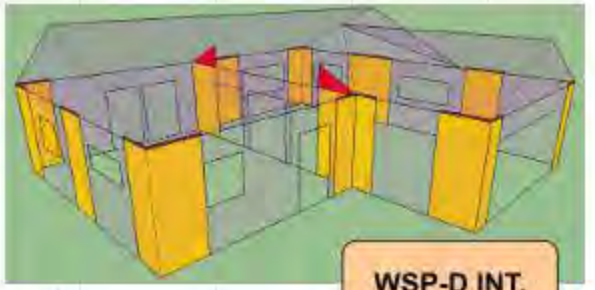
RESET SHEET | TOGGLE FILTER

Sheet (I-3): Inputs - Design & Feedback

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

Autoload Options - Curated for Contractors





AUTOFILL BAND ID

For Braced Storeys

Primary Bracing Details						Secondary Bracing Details		Caculation Method (Tables) Required Bracing Length				Calculation Method (Alternative) Required Bracing Length			
Band ID		Building Dimension || Band (m)	Reference Framing Type	Sheathing Continuity	Bracing into Roof System	Interior/Reverse Drywall	Design Choice	(m)	(ft)	% of || Building Dimension	Design Driver	(m)	(ft)	% of || Building Dimension	Design Driver
R	1	8.001	WSP-A	Intermittent	N/A	Optional	Installed	2.705	8.875	34%	SEISMIC	2.393	7.850	30%	SEISMIC
R	2	8.001	WSP-A	Intermittent	N/A	Optional	Installed	2.705	8.875	34%	SEISMIC	2.393	7.850	30%	SEISMIC
R	A	10.008	WSP-A	Intermittent	N/A	Optional	Installed	2.672	8.768	27%	SEISMIC	2.366	7.763	24%	SEISMIC
R	B	10.008	WSP-A	Intermittent	N/A	Optional	Installed	2.672	8.768	27%	SEISMIC	2.366	7.763	24%	SEISMIC

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

<End of Sheet (I-3) Design & Feedback>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadjusted | 10 of 118 ro

Part 9 Bracing Calculator

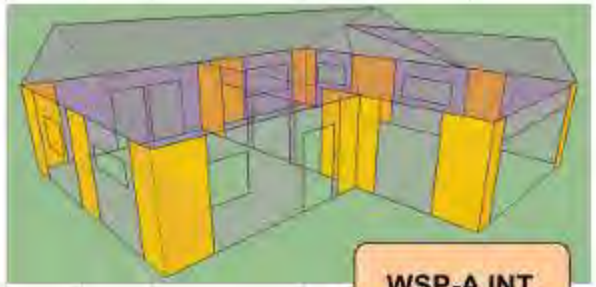
For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER

Sheet (I-3): Inputs - Design & Feedback

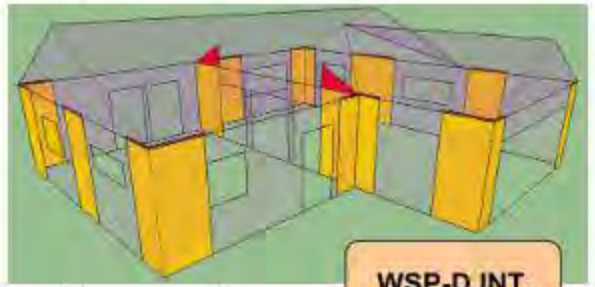
USER INPUT SHEETS: I-1 | I-2 | I-3 | I-4 | R-4

Autoload Options - Curated for Contractors



WSP-A INT.

WSP-A CONT.



WSP-D INT.

WSP-D CONT.

AUTOFILL BAND ID

For Braced Storeys

Primary Bracing Details						Secondary Bracing Details		Caclulation Method (Tables) Required Bracing Length				Calculation Method (Alternative) Required Bracing Length			
Band ID		Building Dimension || Band (m)	Reference Framing Type	Sheathing Continuity	Bracing into Roof System	Interior/Reverse Drywall	Design Choice	(m)	(ft)	% of || Building Dimension	Design Driver	(m)	(ft)	% of || Building Dimension	Design Driver
R	1	8.001	WSP-D	Intermittent	Required	Optional	Installed	1.125	3.692	14%	SEISMIC	1.005	3.297	13%	SEISMIC
R	2	8.001	WSP-D	Intermittent	Required	Optional	Installed	1.125	3.692	14%	SEISMIC	1.005	3.297	13%	SEISMIC
R	A	10.008	WSP-D	Intermittent	Required	Optional	Installed	1.113	3.652	11%	SEISMIC	0.994	3.261	10%	SEISMIC
R	B	10.008	WSP-D	Intermittent	Required	Optional	Installed	1.113	3.652	11%	SEISMIC	0.994	3.261	10%	SEISMIC

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

<End of Sheet (I-3) Design & Feedback>

Part 9 Bracing Calculator

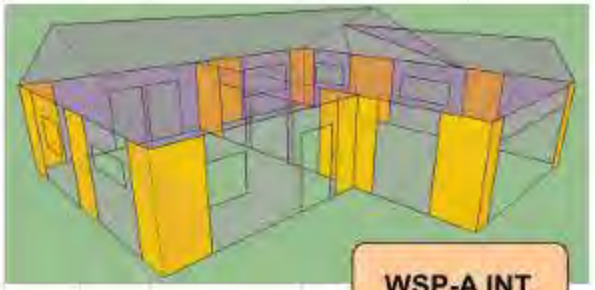
For Design, Compliance and Construction

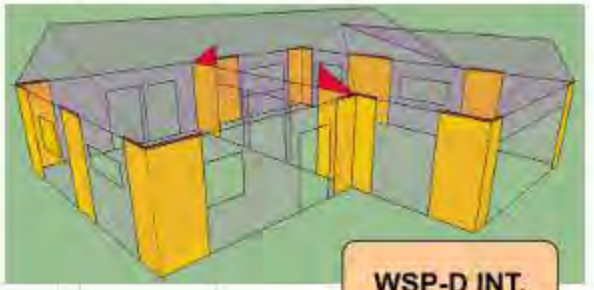
RESET SHEET | TOGGLE FILTER

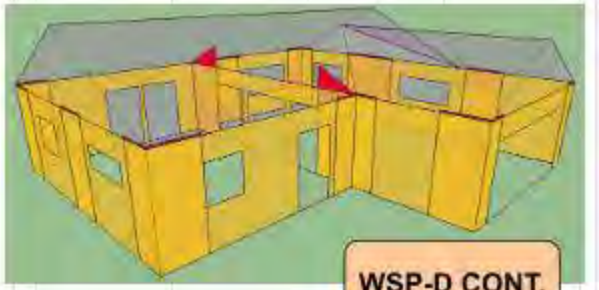
Sheet (I-3): Inputs - Design & Feedback

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

Autoload Options - Curated for Contractors







AUTOFILL BAND ID

For Braced Storeys

Primary Bracing Details						Secondary Bracing Details		Caclulation Method (Tables) Required Bracing Length				Calculation Method (Alternative) Required Bracing Length			
Band ID		Building Dimension || Band (m)	Reference Framing Type	Sheathing Continuity	Bracing into Roof System	Interior/Reverse Drywall	Design Choice	(m)	(ft)	% of || Building Dimension	Design Driver	(m)	(ft)	% of || Building Dimension	Design Driver
R	1	8.001	WSP-D	Intermittent	Required	Optional	Installed	1.125	3.692	14%	SEISMIC	1.005	3.297	13%	SEISMIC
R	2	8.001	WSP-D	Intermittent	Required	Optional	Installed	1.125	3.692	14%	SEISMIC	1.005	3.297	13%	SEISMIC
R	A	10.008	WSP-D	Intermittent	Required	Optional	Installed	1.113	3.652	11%	SEISMIC	0.994	3.261	10%	SEISMIC
R	B	10.008	WSP-D	Intermittent	Required	Optional	Installed	1.113	3.652	11%	SEISMIC	0.994	3.261	10%	SEISMIC

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

<End of Sheet (I-3) Design & Feedback>

Part 9 Bracing Calculator

For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER | beta_1.041

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

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

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

For Braced Storeys

Band ID		Reference Framing Type	Total Length of Panels in each Band: Tables Ft	-	In	-	1/16	Alternative Ft	-	In	-	1/16	Provided Ft	-	In	-	1/16	Code Compliance Check: Tables	Alternative
R	1	WSP-A	7	-	8	-	10	6	-	9	-	15		-		-		FAIL	FAIL
R	2	WSP-A	7	-	8	-	10	6	-	9	-	15		-		-		FAIL	FAIL
R	A	WSP-A	7	-	7	-	8	6	-	9	-	1		-		-		FAIL	FAIL
R	B	WSP-A	7	-	7	-	8	6	-	9	-	1		-		-		FAIL	FAIL

| Permit/File Number: BP_9999999 | Calculations completed by: Tim War er@boabc.org |

<End of Sheet (I-4) Length Compliance>

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(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadj

Part 9 Bracing Calculator

For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER | beta_1.041

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

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

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

For Braced Storeys

Band ID		Reference Framing Type	Total Length of Panels in each Band: Tables Ft	-	In	-	1/16	Alternative Ft	-	In	-	1/16	Provided Ft	-	In	-	1/16	Code Compliance Check: Tables	Alternative
R	1	WSP-A	7	-	8	-	10	6	-	9	-	15		-		-		FAIL	FAIL
R	2	WSP-A	7	-	8	-	10	6	-	9	-	15		-		-		FAIL	FAIL
R	A	WSP-A	7	-	7	-	8	6	-	9	-	1		-		-		FAIL	FAIL
R	B	WSP-A	7	-	7	-	8	6	-	9	-	1		-		-		FAIL	FAIL

| Permit/File Number: BP_9999999 | Calculations completed by: Tim War er@boabc.org |

<End of Sheet (I-4) Length Compliance>

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(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadj

Part 9 Bracing Calculator

For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER | beta_1.041

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

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

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

For Braced Storeys

Band ID		Reference Framing Type	Total Length of Panels in each Band												Code Compliance Check	
			Tables						Alternative						Provided							
			Ft	-	In	-	1/16		Ft	-	In	-	1/16		Ft	-	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	-	7	-	8		6	-	9	-	1		8	-		-			PASS	PASS
R	B	WSP-A	7	-	7	-	8		6	-	9	-	1		8	-		-			PASS	PASS

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

<End of Sheet (I-4) Length Compliance>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadj

Part 9 Bracing Calculator

For Design, Compliance and Construction

RESET SHEET | TOGGLE FILTER | beta_1.041

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

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

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

For Braced Storeys

Band ID		Reference Framing Type	Total Length of Panels in each Band: Tables Ft	-	In	-	1/16	Alternative Ft	-	In	-	1/16	Provided Ft	-	In	-	1/16	Code Compliance Check: 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	-	7	-	8	6	-	9	-	1	8	-		-		PASS	PASS
R	B	WSP-A	7	-	7	-	8	6	-	9	-	1	8	-		-		PASS	PASS

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

<End of Sheet (I-4) Length Compliance>

(I-1) General | (I-2) Bands | (I-3) Design & Feedback | (I-4) Length Compliance | (R-1) Unadj

Part 9 Bracing Calculator

TOGGLE FILTER

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For Design, Compliance and Construction

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

Plan Check Note: Review against BCBC2024 T-9.23.13.7.-A and T-9.23.13.7.-C

HWP Table Bracket	0.4 < HWP ≤ 0.5
Smax Table Bracket	1.2 < Smax ≤ 1.6
Braced Storey above B/CS	N/A

Band ID		Building Dimension || Band (m)	Reference Framing Type	Seismic Unajusted Lengths Table Values								Unadjusted Lengths	
												HWP	SEISMIC
				0.001	3.1	6.1	9.1	12.2	15.2	18.3	***20***	L(UW) (m)	L(US) (m)
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	B	10.008	WSP-A	0.880	0.880	1.520	2.160	2.810	3.450	4.110	4.470	1.900	2.350

Permit/File Number: BP_9999999 | Calculations completed by: Tim Warner - twarner@boabc.org |
<End of Sheet (R-1) Unadjusted Lengths Calcs>

Part 9 Bracing Calculator

For Design, Compliance and Construction

TOGGLE FILTER

beta_1.041

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

Plan Check Note: Review against BCBC2024 T-9.23.13.7.-A and T-9.23.13.7.-C

HWP Table Bracket	0.4 < HWP ≤ 0.5
Smax Table Bracket	1.2 < Smax ≤ 1.6
Braced Storey above B/CS	N/A

Band ID		Building Dimension || Band (m)	Reference Framing Type	Seismic Unajusted Lengths Table Values								Unadjusted Lengths	
												HARC	SEISMIC
				0.001	3.1	6.1	9.1	12.2	15.2	18.3	***20***	L(UW) (m)	L(US) (m)
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	B	10.008	WSP-A	0.880	0.880	1.520	2.160	2.810	3.450	4.110	4.470	1.900	2.350

Permit/File Number: BP_9999999 | Calculations completed by: Tim Warner - twarner@boabc.org |
<End of Sheet (R-1) Unadjusted Lengths Calcs>

Part 9 Bracing Calculator

TOGGLE FILTER

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

Band ID		Building Dimension || Band (m)	Reference Framing Type	Sheathing Continuity	Interior/Reverse Drywall	WIND							Total	SEISMIC						
						L(UW) (m)	K(W) exp	K(W) roof	K(W) spacing	K(W) number	K(W) gyp	K(W) sheath	L(W) (m)	L(US) (m)	K(S) weight	K(S) snow	K(S) spacing	K(S) number	K(S) gyp	K(S) shea
R	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	1.0
R	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	1.0
R	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	1.0
R	B	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	1.0

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

<End of Sheet (R-2) Adjusted Lengths (Tables)>

Part 9 Bracing Calculator

TOGGLE FILTER

For Design, Compliance and Construction

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

For Braced Storeys

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	L(W) (m)	L(US) (m)	K(S) weight	K(S) snow	K(S) spacing	K(
R	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.(
R	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.(
R	A	10.008			WSP-A	Continuous	Installed	1.950	1.000	0.520	0.986	1.000	1.000	1.000	0.974	2.350	1.000	1.000	0.989	1.(
R	B	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.(

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

<End of Sheet (R-2) Adjusted Lengths (Tables)>

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d Adjusted Lengths - Calculation Method (Tables)

	Interior/Reverse Drywall	L(UW) (m)	K(W) exp	K(W) roof	K(W) spacing	K(W) number	K(W) gyp	K(W) sheath	L(W) (m)	L(US) (m)	K(S) weight	K(S) snow	K(S) spacing	K(S) number	K(S) gyp	K(S) sheath	L(S) (m)	Required Length (m)	Design Driver
	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	1.000	2.352	2.352	
	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	1.000	2.352	2.352	
	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	1.000	2.324	2.324	
	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	1.000	2.324	2.324	

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

<End of Sheet (R-2) Adjusted Lengths (Tables)>

Part 9 Bracing Calculator

For Design, Compliance and Construction

TOGGLE FILTER

Sheet (R-3): Report - Adjustment Factors, Coefficients and Adjusted Lengths - Calculation Method (Alternative)

Pen Check Note: Review against BCBC2024 A-9.23.13.7.(3), A-9.23.13.7.(4), T-9.23.13.7.-B and T-9.23.13.7.-D

For Braced Storeys

Band ID		Building Dimension ∥ Band (m)	Reference Framing Type	Sheathing Continuity	Interior/Reverse Drywall	WIND									Total	SEISMIC									Total	Most Restrictive	
						C(W) storey	K(W) frame	HWP (1/50)	K(W) exp	K(W) roof	K(W) spacing	K(W) number	K(W) gyp	K(W) sheath	L(W) (m)	C(S) storey	C(S) walls	C(S) roof	S	K(S) frame	Smax	K(S) weight	K(S) spacing	K(S) number	K(S) gyp	K(S) sheath	L(S) (m)	Required Length (m)	Design Dir
R	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	1.555	1.000	1.550	1.000	1.222	1.000	1.000	1.000	2.081	2.081	SEISMIC
R	2	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	1.555	1.000	1.550	1.000	1.222	1.000	1.000	1.000	2.081	2.081	SEISMIC
R	A	10.008	WSP-A	Continuous	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	0.286	1.555	1.000	1.550	1.000	0.989	1.000	1.000	1.000	2.058	2.058	SEISMIC
R	B	10.008	WSP-A	Continuous	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	0.286	1.555	1.000	1.550	1.000	0.989	1.000	1.000	1.000	2.058	2.058	SEISMIC

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

<End of Sheet (R-3) Adjusted Lengths (Alt...>

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ion Method (Alternative)

-D

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

<End of Sheet (R-3) Adjusted Lengths (Alt...>

Part 9 Bracing Calculator

For Design, Compliance and Construction

RESET SHEET | PRINT DASHBOARD | beta_1.041

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

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

Builder Preferences		Caclulator Feedback:
Anchor Bolts (Diameter)		
Framing Nails		
Wood-based Braced Wall Panel Sheathing Nails		
Wood-based Wall Sheathing (not in BWPs) Fasteners		
Gysum-based Braced Wall Panel Sheathing Fasteners		Screws require minimum 3/4" embed into framing
Wood-based Subfloor Sheathing Fasteners		
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"	
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

Part 9 Bracing Calculator

For Design, Compliance and Construction

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

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

Builder Preferences		Caclulator Feedback:
Anchor Bolts (Diameter)		
Framing Nails		
Wood-based Braced Wall Panel Sheathing Nails		
Wood-based Wall Sheathing (not in BWPs) Fasteners		
Gysum-based Braced Wall Panel Sheathing Fasteners		Screws require minimum 3/4" embed into framing
Wood-based Subfloor Sheathing Fasteners		
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"	
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

Part 9 Bracing Calculator

For Design, Compliance and Construction

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

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

Builder Preferences		Caculator Feedback:
Anchor Bolts (Diameter)		
Framing Nails	1/2"	
Wood-based Braced Wall Panel Sheathing Nails	5/8"	
Wood-based Wall Sheathing (not in BWPs) Fasteners		
Gysum-based Braced Wall Panel Sheathing Fasteners		Screws require minimum 3/4" embed into framing
Wood-based Subfloor Sheathing Fasteners		
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"	
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

Part 9 Bracing Calculator

For Design, Compliance and Construction

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

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

Builder Preferences		Caculator Feedback:
Anchor Bolts (Diameter)		
Framing Nails	1/2"	
Wood-based Braced Wall Panel Sheathing Nails	5/8"	
Wood-based Wall Sheathing (not in BWPs) Fasteners		
Gysum-based Braced Wall Panel Sheathing Fasteners		Screws require minimum 3/4" embed into framing
Wood-based Subfloor Sheathing Fasteners		
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"	
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

+ ≡ Alt.) | (R-4) Construction (Part 1) | (R-4a) Construction (Part 2) | (R-5) Comparison | (R-6) Dbl

Part 9 Bracing Calculator

For Design, Compliance and Construction

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

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

Builder Preferences		Caclulator Feedback:
Anchor Bolts (Diameter)	1/2"	
Framing Nails		
Wood-based Braced Wall Panel Sheathing Nails		
Wood-based Wall Sheathing (not in BWPs) Fasteners		
Gysum-based Braced Wall Panel Sheathing Fasteners		Screws require minimum 3/4" embed into framing
Wood-based Subfloor Sheathing Fasteners		
Wood-based Roof Sheathing Fasteners		

- 3 1/4" x 0.113" (Strip/Coil)
- 3 1/4" x 0.120" (Std Strip/Coil)
- 3 1/4" x 0.131" (Strip/Coil)
- 3 1/4" x 0.148" (Strip/Coil)
- 3 1/4" x 0.144" (Common)

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:*	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

+ | ≡ | Alt.) | (R-4) Construction (Part 1) | (R-4a) Construction (Part 2) | (R-5) Comparison | (R-6) Dbl

Part 9 Bracing Calculator

For Design, Compliance and Construction

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

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

Builder Preferences		Caclulator Feedback:
Anchor Bolts (Diameter)	1/2"	
Framing Nails		
Wood-based Braced Wall Panel Sheathing Nails		
Wood-based Wall Sheathing (not in BWPs) Fasteners		
Gysum-based Braced Wall Panel Sheathing Fasteners		Screws require minimum 3/4" embed into framing
Wood-based Subfloor Sheathing Fasteners		
Wood-based Roof Sheathing Fasteners		

- 3 1/4" x 0.113" (Strip/Coil)
- 3 1/4" x 0.120" (Std Strip/Coil)
- 3 1/4" x 0.131" (Strip/Coil)
- 3 1/4" x 0.148" (Strip/Coil)
- 3 1/4" x 0.144" (Common)

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:*	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

+ | ≡ | Alt.) | (R-4) Construction (Part 1) | (R-4a) Construction (Part 2) | (R-5) Comparison | (R-6) Dbl

Part 9 Bracing Calculator

For Design, Compliance and Construction

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

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

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

- 2 1/2" x 0.099" (Strip/Coil)
- 2 1/2" x 0.113" (Std Strip/Coil)
- 2 1/2" x 0.120" (Strip/Coil)
- 2 1/2" x 0.131" (Strip/Coil)
- 2 1/2" x 0.148" (Strip/Coil)
- 2 1/2" x 0.144" (Common)

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 not in Braced Wall Panels:*		*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:	3 1/4" x 0.120" (Std Strip/Coil)		
		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

Part 9 Bracing Calculator

For Design, Compliance and Construction

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

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

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

- 2 1/2" x 0.099" (Strip/Coil)
- 2 1/2" x 0.113" (Std Strip/Coil)
- 2 1/2" x 0.120" (Strip/Coil)
- 2 1/2" x 0.131" (Strip/Coil)
- 2 1/2" x 0.148" (Strip/Coil)
- 2 1/2" x 0.144" (Common)

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 not in Braced Wall Panels:*		*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:	3 1/4" x 0.120" (Std Strip/Coil)		
		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

Part 9 Bracing Calculator

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

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

Builder Preferences		Caclulator 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		
Gysum-based Braced Wall Panel Sheathing Fasteners		Screws require minimum 3/4" embed into framing
Wood-based Subfloor Sheathing Fasteners		
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:	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:	3 1/4" x 0.120" (Std Strip/Coil)		
		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

Part 9 Bracing Calculator

For Design, Compliance and Construction

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

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

Builder Preferences		Caculator 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		
Gysum-based Braced Wall Panel Sheathing Fasteners		Screws require minimum 3/4" embed into framing
Wood-based Subfloor Sheathing Fasteners		
Wood-based Roof Sheathing Fasteners		

Same as BWP nails
Common/Spiral Nails
Ring Thread Nails
Screws
Staples (14g)

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 not in Braced Wall Panels:*	6' 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:	3 1/4" x 0.120" (Std Strip/Coil)		
		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-4a) Construction (Part 2) | (R-5) Comparison | (R-6) Dbl

Part 9 Bracing Calculator

For Design, Compliance and Construction

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

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

Builder Preferences		Caculator 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		
Gysum-based Braced Wall Panel Sheathing Fasteners		Screws require minimum 3/4" embed into framing
Wood-based Subfloor Sheathing Fasteners		
Wood-based Roof Sheathing Fasteners		

Same as BWP nails
Common/Spiral Nails
Ring Thread Nails
Screws
Staples (14g)

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 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:	3 1/4" x 0.120" (Std Strip/Coil)		
		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-4a) Construction (Part 2) | (R-5) Comparison | (R-6) Dbl

Part 9 Bracing Calculator

For Design, Compliance and Construction

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

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

Builder Preferences		Caclulator 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		Screws require minimum 3/4" embed into framing
Wood-based Subfloor Sheathing Fasteners		
Wood-based Roof Sheathing Fasteners		

Type W Drywall Screws

Ring Thread 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

Lateral Bracing System Framing Nail 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 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

Part 9 Bracing Calculator

For Design, Compliance and Construction

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

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

Builder Preferences		Caculator 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		Screws require minimum 3/4" embed into framing
Wood-based Subfloor Sheathing Fasteners		
Wood-based Roof Sheathing Fasteners		

Type W Drywall Screws

Ring Thread 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

Lateral Bracing System Framing Nail 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 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

Part 9 Bracing Calculator

For Design, Compliance and Construction

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

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

Builder Preferences		Caclulator 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		
Wood-based Roof Sheathing Fasteners		

Same as BWP nails
Common/Spiral Nails
Ring Thread Nails
Screws
Staples (14g)

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 not in Braced Wall Panels:*		*See Report - Construction (Part 2) for Panel specific anchor bolt spacing

Anchor bolts to be positioned within 12" of foundation wall corne

Lateral Bracing System Framing Nail 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 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

Part 9 Bracing Calculator

For Design, Compliance and Construction

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

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

Builder Preferences		Caclulator 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		
Wood-based Roof Sheathing Fasteners		

Same as BWP nails
Common/Spiral Nails
Ring Thread Nails
Screws
Staples (14g)

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 not in Braced Wall Panels:*		*See Report - Construction (Part 2) for Panel specific anchor bolt spacing

Anchor bolts to be positioned within 12" of foundation wall corne

Lateral Bracing System Framing Nail 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 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-4a) Construction (Part 2) | (R-5) Comparison | (R-6) Dbl

Part 9 Bracing Calculator

For Design, Compliance and Construction

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

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

Builder Preferences		Caclulator 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
- Common/Spiral Nails
- Ring Thread Nails
- Screws
- Staples (14g)

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 not in Braced Wall Panels:*		*See Report - Construction (Part 2) for Panel specific anchor bolt spacing

Anchor bolts to be positioned within 12" of foundation wall corne

Lateral Bracing System Framing Nail 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 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-4a) Construction (Part 2) | (R-5) Comparison | (R-6) Dbl

Part 9 Bracing Calculator

For Design, Compliance and Construction

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

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

Builder Preferences		Caclulator 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
Common/Spiral Nails
Ring Thread Nails
Screws
Staples (14g)

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 not in Braced Wall Panels:*		*See Report - Construction (Part 2) for Panel specific anchor bolt spacing

Anchor bolts to be positioned within 12" of foundation wall corne

Lateral Bracing System Framing Nail 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 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-4a) Construction (Part 2) | (R-5) Comparison | (R-6) Dbl

Part 9 Bracing Calculator

For Design, Compliance and Construction

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

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

Builder Preferences		Caclulator 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

Lateral Bracing System Framing Nail 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 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

Part 9 Bracing Calculator

For Design, Compliance and Construction

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

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

Builder Preferences		Caclulator 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

Lateral Bracing System Framing Nail 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 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

Part 9 Bracing Calculator

For Design, Compliance and Construction

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

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

Builder Preferences		Caclulator Feedback:
Anchor Bolts (Diameter)	1/2"	
Framing Nails	3 1/4" x 0.144" (Common)	
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

Lateral Bracing System Framing Nail Connections and Spacing based on Design Inputs and Builder Preferences			
Fastener Type:	3 1/4" x 0.144" (Common)		
		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		5.875	
Blocking to stud or stud to wall plate (each end) toe nail			4

+ ≡ Alt.) | (R-4) Construction (Part 1) | (R-4a) Construction (Part 2) | (R-5) Comparison | (R-6) Dbl

Part 9 Bracing Calculator

For Design, Compliance and Construction

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

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

Builder Preferences		Caclulator Feedback:
Anchor Bolts (Diameter)	1/2"	
Framing Nails	3 1/4" x 0.144" (Common)	
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

Lateral Bracing System Framing Nail Connections and Spacing based on Design Inputs and Builder Preferences			
Fastener Type:	3 1/4" x 0.144" (Common)		
		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		5.875	
Blocking to stud or stud to wall plate (each end) toe nail			4

+ ≡ Alt.) | (R-4) Construction (Part 1) | (R-4a) Construction (Part 2) | (R-5) Comparison | (R-6) Dbl

Maximum Spacing for Anchor Bolts not in Braced Wall Panels:	6" 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:	3 1/4" x 0.120" (Std Strip/Coil)		
		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
Blocking to stud or stud to wall plate (each end) end nail			3
Doubled studs at openings, within walls, or abutting studs at wall intersections and corners – in required braced wall panels		8.250	
Doubled top wall plates (see below for joints in braced wall bands)		16.375	
Bottom wall plate or sole plate to floor joists, rim joists or blocking (exterior walls) (3)		10.875	
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

Subfloor Sheathing Fasteners based on Design Inputs and Builder Preferences				
Fastener Type:	2 1/2" x 0.113" (Std Strip/Coil)	Minimum Length	Maximum Spacing (in)	
			Edges	Field
For wood-based subfloor sheathing panels greater than 3/8" and up to 3/4"		#N/A	6.000	12.000
For wood-based subfloor sheathing panels greater than 3/4" and up to 1"		#N/A	6.000	12.000

Wall Sheathing Fasteners 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)	Minimum Length	Maximum Spacing (in)	
			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

Bottom wall plate or sole plate to floor joists, rim joists or blocking (exterior walls) (3)	10.875	
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

Subfloor Sheathing Fasteners based on Design Inputs and Builder Preferences				
Fastener Type:	2 1/2" x 0.113" (Std Strip/Coil)	Minimum Length	Maximum Spacing (in)	
			Edges	Field
For wood-based subfloor sheathing panels greater than 3/8" and up to 3/4"		#N/A	6.000	12.000
For wood-based subfloor sheathing panels greater than 3/4" and up to 1"		#N/A	6.000	12.000

Wall Sheathing Fasteners 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)	Minimum Length	Maximum Spacing (in)	
			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

Roof Sheathing Fasteners based on Design Inputs and Builder Preferences				
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

Bottom wall plate or sole plate to floor joists, rim joists or blocking (exterior walls) (3)	10.875	
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

Subfloor Sheathing Fasteners based on Design Inputs and Builder Preferences				
Fastener Type:	2 1/2" x 0.113" (Std Strip/Coil)	Minimum Length	Maximum Spacing (in)	
			Edges	Field
For wood-based subfloor sheathing panels greater than 3/8" and up to 3/4"		#N/A	6.000	12.000
For wood-based subfloor sheathing panels greater than 3/4" and up to 1"		#N/A	6.000	12.000

Wall Sheathing Fasteners 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)	Minimum Length	Maximum Spacing (in)	
			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

Roof Sheathing Fasteners based on Design Inputs and Builder Preferences				
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

Part 9 Bracing Calculator

For Design, Compliance and Construction

TOGGLE FILTER

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

Builder Preferences	
Anchor Bolts (Diameter)	1/2"
Framing Nails	3 1/4" x 0.120" (Std Strip/Coil)
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
Wood-based Subfloor Sheathing Fasteners	Same as BWP nails
Wood-based Roof Sheathing Fasteners	Same as BWP nails

Calculator Feedback:
Framing nails to extend minimum 1/2 length into second member. Space nails to avoid splitting.

Band Specific Construction Details based on Builder Preferences

Band Information				Anchor Bolts		Framing				Primary Bracing Sheathing					Secondary Bracing
Band ID		Reference Framing Type	Sheathing Continuity	Max. Spacing in BWP	Min. # per BWP	Max. Stud Spacing	Double Top Plate Nailing		Bracing Extending to Roof Framing	Minimum Sheathing	Horiz. Blocking	Fastener Type	Spacing		Reference Framing Type
							Min. Plate Lap	Min. Nails Each Side					Edges	Field	
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
R	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	-	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/Coil)	6.000	12.000	GWB-O

Part 9 Bracing Calculator

For Design, Compliance and Construction

TOGGLE FILTER

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

Builder Preferences	
Anchor Bolts (Diameter)	1/2"
Framing Nails	3 1/4" x 0.120" (Std Strip/Coil)
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
Wood-based Subfloor Sheathing Fasteners	Same as BWP nails
Wood-based Roof Sheathing Fasteners	Same as BWP nails

Calculator Feedback:

Framing nails to extend minimum 1/2 length into second member. Space nails to avoid splitting.

Band Specific Construction Details based on Builder Preferences

Band Information				Anchor Bolts		Framing				Primary Bracing Sheathing					Secondary Bracing
Band ID		Reference Framing Type	Sheathing Continuity	Max. Spacing in BWP	Min. # per BWP	Max. Stud Spacing	Double Top Plate Nailing		Bracing Extending to Roof Framing	Minimum Sheathing	Horiz. Blocking	Fastener Type	Spacing		Reference Framing Type
							Min. Plate Lap	Min. Nails Each Side					Edges	Field	
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
R	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	-	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/Coil)	6.000	12.000	GWB-O

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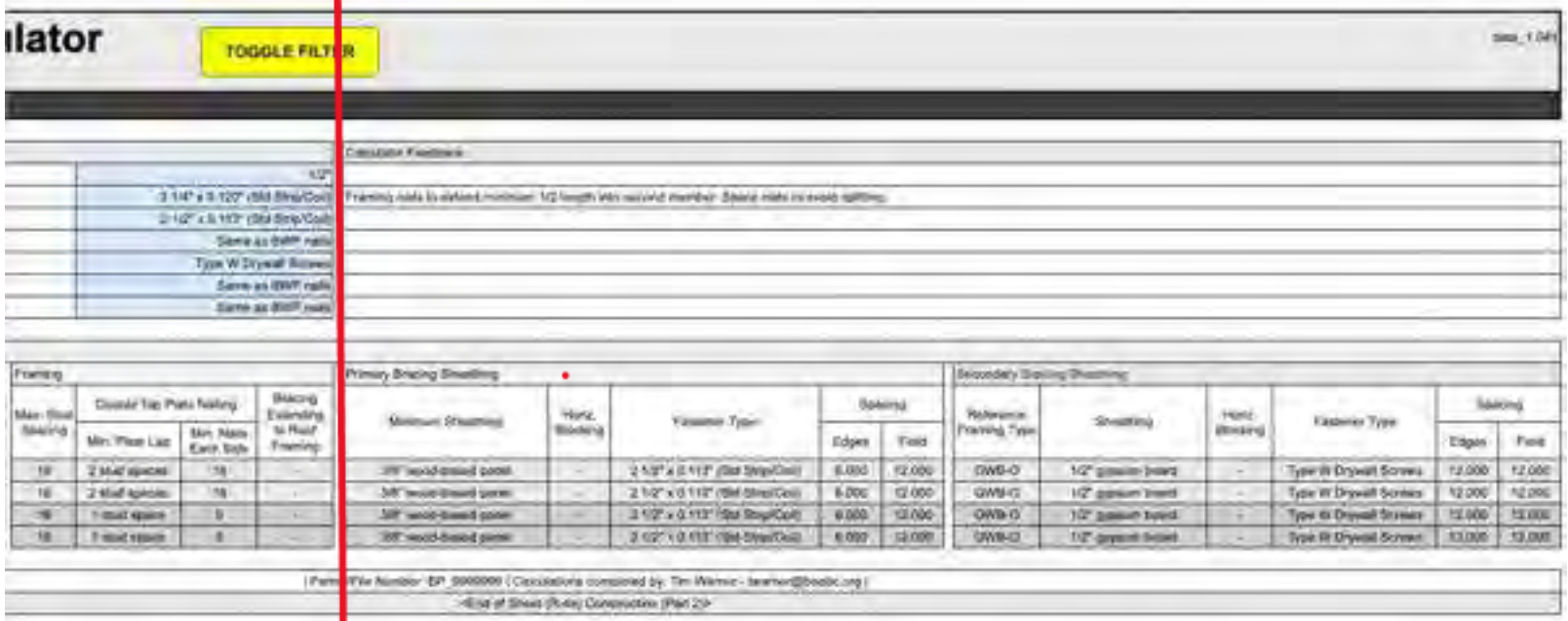

Part 9 Bracing Calculator

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

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

Builder Preferences		Caclulator 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

Lateral Bracing System Framing Nail 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 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

Part 9 Bracing Calculator

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(I-2) Bands	☐
(I-3) Design & Feedback	☐
(I-4) Length Compliance	☐

Reports - *Select All*	☐
(R-1) Unadjusted Lengths Calcs	☐
(R-2) Adjusted Lengths (Tables)	☐
(R-3) Adjusted Lengths (Alt.)	☐
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(R-4a) Construction (Part 2)	☐
(R-5) Comparison	☐
(R-6) Dbl Top Plates Nailing	☐
(M-1) Adjustment Factors	☐
(M-2) Compliance Matrix	☐

Appendix Calculators - *Select All*	☐
(A-1) Custom Climate	☐

Part 9 Bracing Calculator

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User Inputs - *Select All*	☐
(I-1) General	☐
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(I-3) Design & Feedback	☐
(I-4) Length Compliance	☐

Reports - *Select All*	☐
(R-1) Unadjusted Lengths Calcs	☐
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(R-3) Adjusted Lengths (Alt.)	☐
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(R-4a) Construction (Part 2)	☐
(R-5) Comparison	☐
(R-6) Dbl Top Plates Nailing	☐
(M-1) Adjustment Factors	☐
(M-2) Compliance Matrix	☐

Appendix Calculators - *Select All*	☐
(A-1) Custom Climate	☐

User Inputs - *Select All*	☐
(I-1) General	☐
(I-2) Bands	☐
(I-3) Design & Feedback	☐
(I-4) Length Compliance	☐

Reports - *Select All*	☐
(R-1) Unadjusted Lengths Calcs	☐
(R-2) Adjusted Lengths (Tables)	☐
(R-3) Adjusted Lengths (Alt.)	☐
(R-4) Construction (Part 1)	☐
(R-4a) Construction (Part 2)	☐
(R-5) Comparison	☐
(R-6) Dbl Top Plates Nailing	☐
(M-1) Adjustment Factors	☐
(M-2) Compliance Matrix	☐

Appendix Calculators - *Select All*	☐
(A-1) Custom Climate	☐
(A-2) C2 & C3 Generator	☑
(A-2a) Smax Report	☑

BCBC Table References - *Select All*	☐
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(BCBC) Unadjusted Lengths (S)	☐

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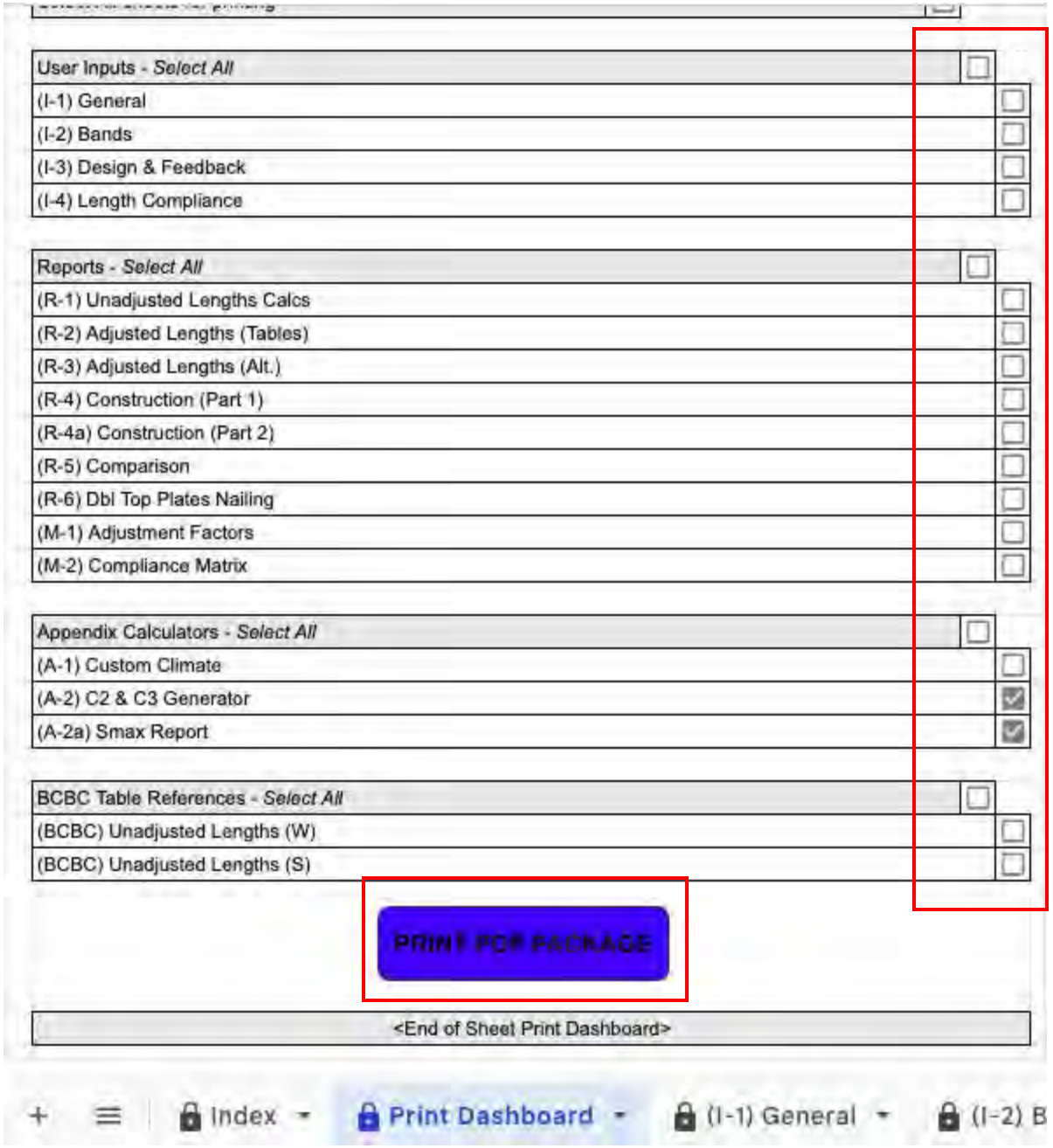
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Reports - Select All
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(A-1) Custom Climate
(A-2) C2 & C3 Generator
(A-2a) Smax Report
BCBC Table References - Select All
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Print Dashboard
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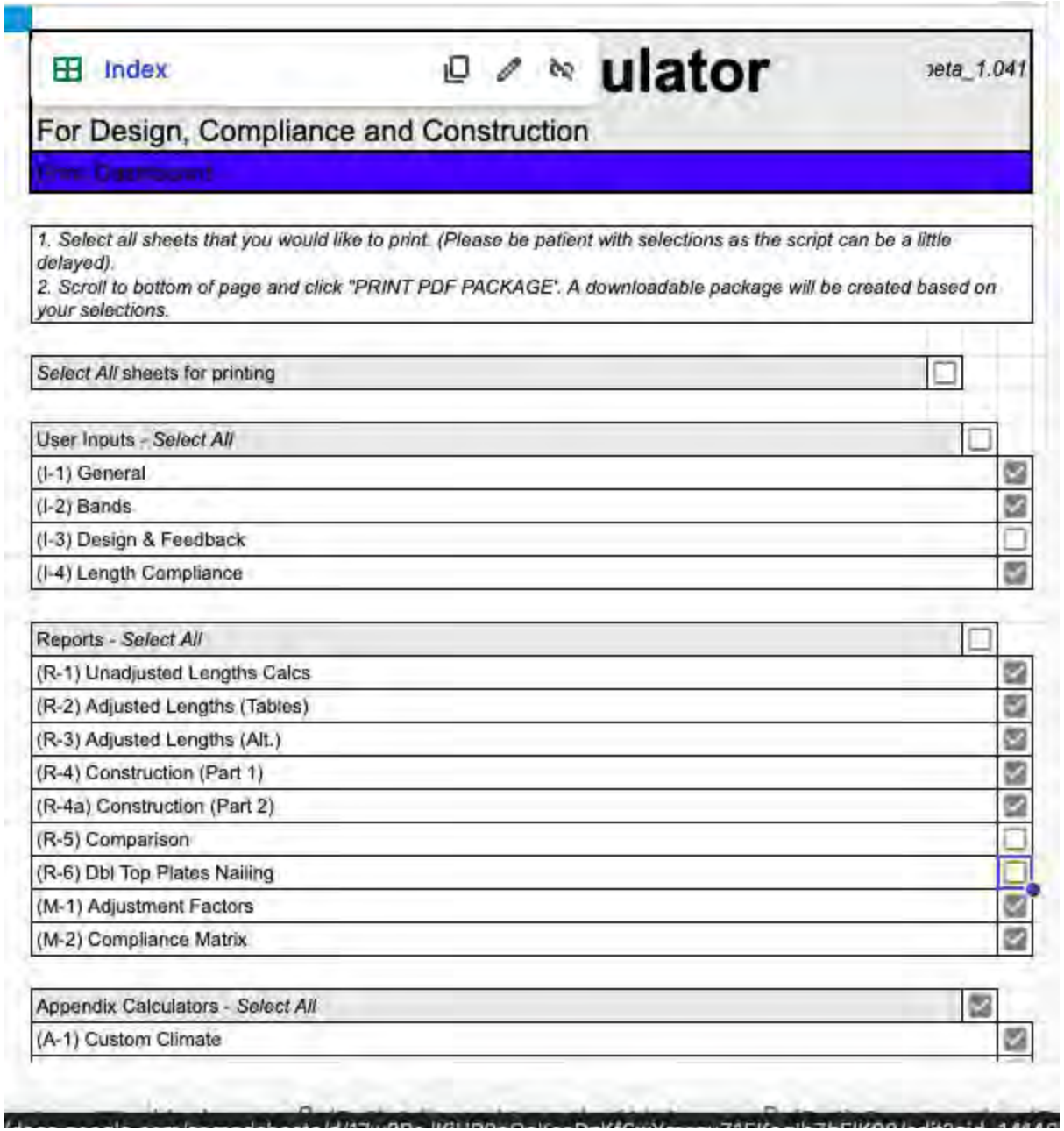
(I-2) B

Part 9 Bracing Calculator

General Navigation Tips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2. 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
User Inputs - Select All
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(I-2) Bands
(I-3) Design & Feedback
(I-4) Length Compliance
Reports - Select All
(R-1) Unadjusted Lengths Calcs
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(R-4a) Construction (Part 2)
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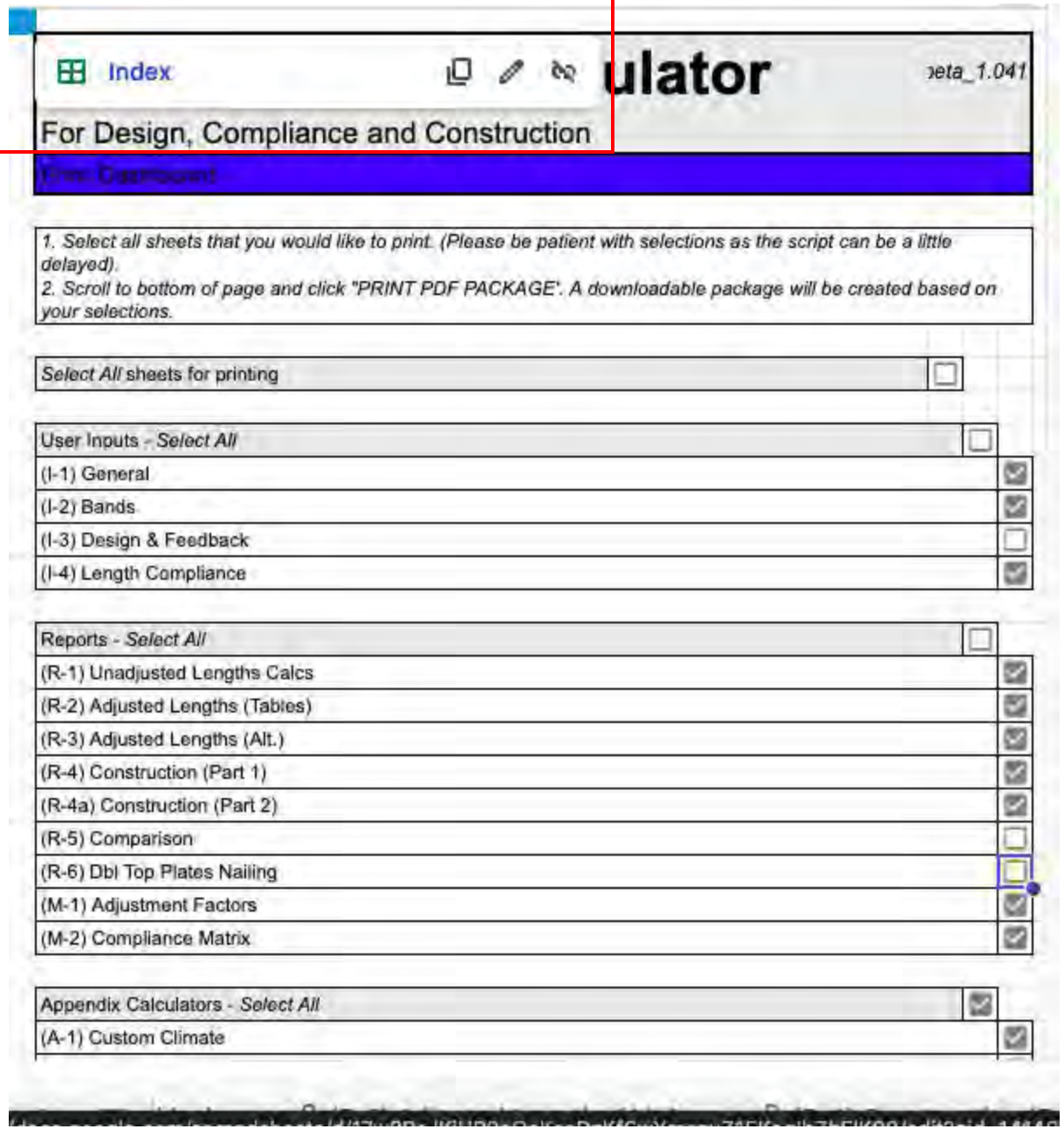
(R-6) Dbl Top Plates Nailing
(M-1) Adjustment Factors
(M-2) Compliance Matrix
Appendix Calculators - Select All
(A-1) Custom Climate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For Design, Compliance and Construction
1. Select all sheets that you would like to print. (Please be patient with selections as the script can be a little delayed).
2. 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
User Inputs - Select All
(I-1) General
(I-2) Bands
(I-3) Design & Feedback
(I-4) Length Compliance
Reports - Select All
(R-1) Unadjusted Lengths Calcs
(R-2) Adjusted Lengths (Tables)
(R-3) Adjusted Lengths (Alt.)
(R-4) Construction (Part 1)
(R-4a) Construction (Part 2)
(R-5) Comparison
(R-6) Dbl Top Plates Nailing
(M-1) Adjustment Factors
(M-2) Compliance Matrix
Appendix Calculators - Select All
(A-1) Custom Climate

Part 9 Bracing Calculator

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For Design, Compliance and Construction

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GlossaryData/Discovery Mode	(UNDER CONSTRUCTION)	
Print Dashboard	Dashboard for collating for printing (scipt version only)	
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(I-2) Bands	Bands **inputs** page.	
(I-3) Design & Feedback	Band specific design **inputs** page.	
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Reports		
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(R-2) Adjusted Lengths (Tables)	Demonstration of unadjusted lengths calculations	
(R-3) Adjusted Lengths (All)	Demonstration of unadjusted lengths calculations	
(R-4) Construction (Part 1)	User **inputs** and table of construction requirements	
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(R-5) Comparison	Comparison analysis of Calculation Methods	
(R-6) Dbl Top Plates Nailing	Demonstration of top plate nailing calculations	

GlossaryData/Discovery Mode	(UNDER CONSTRUCTION)	
Print Dashboard	Dashboard for collating for printing (scipt version only)	
User Inputs		
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(I-2) Bands	Bands **inputs** page.	
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(A-2) C2 & C3 Generator	User **inputs** for generation of climate and seismic data for locations not listed in BCBC Appendix C.	
(A-2a) Smax Report	Report based on user input and BCBC appendix formulas	
BCBC References		
(BCBC) Unadjusted Lengths (W)	Consolidated code tables used in calculations	
(BCBC) Unadjusted Lengths (S)	Consolidated code tables used in calculations	

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GlossaryData/Discovery Mode	(UNDER CONSTRUCTION)	
Print Dashboard	Dashboard for collating for printing (scipt version only)	
User Inputs		
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(I-3) Design & Feedback	Band specific design **inputs** page.	
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(R-2) Adjusted Lengths (Tables)	Demonstration of unadjusted lengths calculations	
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(M-2	athways and trigger points	
(D-1	TION)	
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(A-1	n climate data	
(A-2	ation of climate and seismic data for locations not listed in BCBC Appendix C.	
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(BCE	les used in calculations	
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(I-3) Design & Feedback
(I-4) Length Compliance
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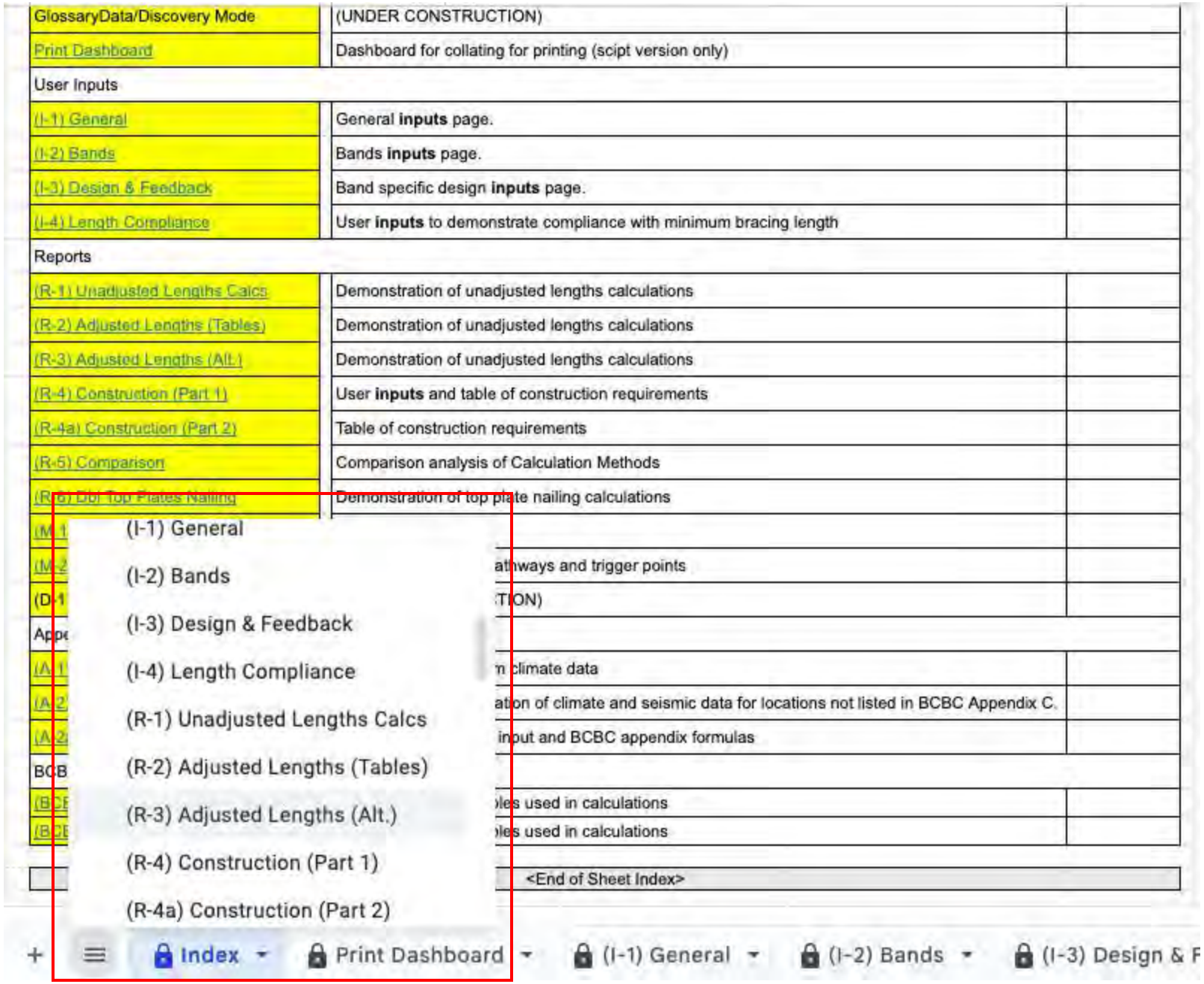
(R-2) Adjusted Lengths (Tables)
(R-3) Adjusted Lengths (Alt.)
(R-4) Construction (Part 1)
(R-4a) Construction (Part 2)


GlossaryData/Discovery Mode
(UNDER CONSTRUCTION)
Print Dashboard
Dashboard for collating for printing (scipt version only)
User Inputs
(I-1) General
General inputs page.
(I-2) Bands
Bands inputs page.
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User inputs and table of construction requirements
(R-4a) Construction (Part 2)
Table of construction requirements
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(R-1) Unadjusted Lengths Calcs
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Part 9 Bracing Calculator

For Design, Compliance and Construction

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

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

Builder Preferences		Caculator 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

Lateral Bracing System Framing Nail 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 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

Part 9 Bracing Calculator

Custom Climate and Seismic Data

Part 9 Bracing Calculator

For Design, Compliance and Construction

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Sheet (I-1): Inputs - General

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

Administrative Information	
Address	
Permit/File/Reference Number	BP_9999999
Calculations Completed by (Name)	Tim Warner
Calculations Completed by (Contact Information)	twarner@boabc.org

Calculator Feedback:

Site and Environmental Conditions	
Site Design Location (see hover note)	
Site Class	
Site Exposure	
Specified Snow Load (kPa)	
HWP (1/50)	
HWP Range Identifier	
Smax	
Smax Range Identifier	

Click here to enter <Custom Location> climate and seismic data

<Custom Location>
100 Mile House
Abbotsford
Agassiz
Alberni
Ashcroft
Bamfield
Beatton River
Bella Bella
Bella Coola
Burns Lake
Cache Creek
Campbell River

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?	

All Braced Storeys are Normal Weight Construction
All Bands in all Braced Storeys are Continuously Sheathed

Part 9 Bracing Calculator

For Design, Compliance and Construction

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Sheet (I-1): Inputs - General

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

Administrative Information	
Address	
Permit/File/Reference Number	BP_9999999
Calculations Completed by (Name)	Tim Warner
Calculations Completed by (Contact Information)	twarner@boabc.org

Calculator Feedback:

Site and Environmental Conditions	
Site Design Location (see hover note)	
Site Class	
Site Exposure	
Specified Snow Load (kPa)	
HWP (1/50)	
HWP Range Identifier	
Smax	
Smax Range Identifier	

Click here to enter <Custom Location> climate and seismic data

<Custom Location>
100 Mile House
Abbotsford
Agassiz
Alberni
Ashcroft
Bamfield
Beatton River
Bella Bella
Bella Coola
Burns Lake
Cache Creek
Campbell River

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?	

All Braced Storeys are Normal Weight Construction

All Bands in all Braced Storeys are Continuously Sheathed

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Part 9 Bracing Calculator

For Design, Compliance and Construction

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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		
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)	<Custom Location>	Click here to enter <Custom Location> climate and seismic data
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		
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?		

Part 9 Bracing Calculator

For Design, Compliance and Construction

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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		
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)	<Custom Location>	Click here to enter <Custom Location> climate and seismic data
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		
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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?		

Part 9 Bracing Calculator

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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 Seismic Data											
	Snow Loads		Specifed Snow Load (kPa)		HWP (1/50)	Site Class - Smax					
Location	Ss	Sr	Roof width <= 4.3m	Roof width > 4.3m		Unknown	A	B	C	D	E
<Custom Location>			0.000	1.000							

Return to Part 9 Bracing Calculator

GENERATE DESIGN VALUES

Permit/File Number: BP_9999999 | Calculations completed by: Tim Warner - twarner@boabc.org |
<End of Sheet (A-1) Custom Climate>

Part 9 Bracing Calculator

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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 Seismic Data											
	Snow Loads		Specifed Snow Load (kPa)		HWP (1/50)	Site Class - Smax					
Location	Ss	Sr	Roof width <= 4.3m	Roof width > 4.3m		Unknown	A	B	C	D	E
<Custom Location>			0.000	1.000							

Return to Part 9 Bracing Calculator

GENERATE DESIGN VALUES

(A-2) C2 & C3 Generator

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

<End of Sheet (A-1) Custom Climate>

(M-1) Adjustment Factors | (M-2) Compliance Matrix | (A-1) Custom Climate | (A-2) C2 & C3 Generator | (A-2a

Part 9 Bracing Calculator

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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 Seismic Data											
	Snow Loads		Specifed Snow Load (kPa)		HWP (1/50)	Site Class - Smax					
Location	Ss	Sr	Roof width <= 4.3m	Roof width > 4.3m		Unknown	A	B	C	D	E
<Custom Location>			0.000	1.000							

Return to Part 9 Bracing Calculator

GENERATE DESIGN VALUES

(A-2) C2 & C3 Generator

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

<End of Sheet (A-1) Custom Climate>

(M-1) Adjustment Factors | (M-2) Compliance Matrix | (A-1) Custom Climate | (A-2) C2 & C3 Generator | (A-2a

Part 9 Bracing Calculator

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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			
Confirm			Select "No" to unlock Custom Entry

Confirmed Location Coordinates	
Latitude	
Longitude	

CALCULATE SMAX

(M-1) Adjustment Factors | (M-2) Compliance Matrix | (A-1) Custom Climate | (A-2) C2 & C3 Generator

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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	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		

GET COORDINATES AND SHOW LOCATION

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

Confirmed Location Coordinates	
Latitude	
Longitude	

CALCULATE SMAX

(M-1) Adjustment Factors | (M-2) Compliance Matrix | (A-1) Custom Climate | (A-2) C2 & C3 Generator

Part 9 Bracing Calculator

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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	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		

GET COORDINATES AND SHOW LOCATION

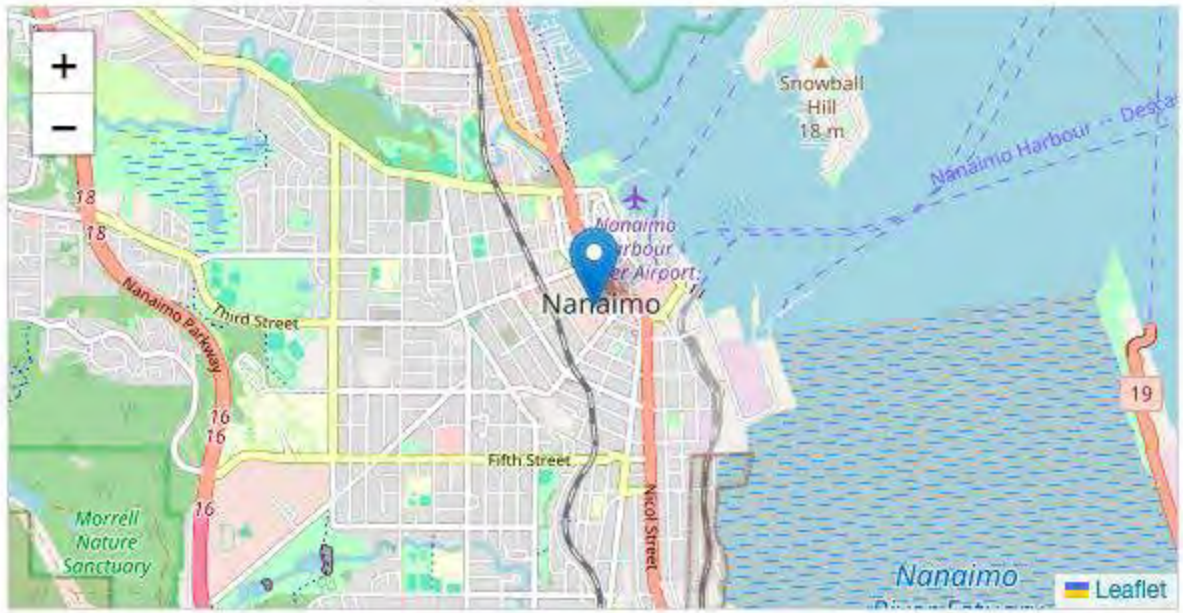
Coordinates			
	Calculation	Custom Entry	
Latitude			
Longitude			
Confirm			Select "No" to unlock Custom Entry

Confirmed Location Coordinates	
Latitude	
Longitude	

CALCULATE SMAX

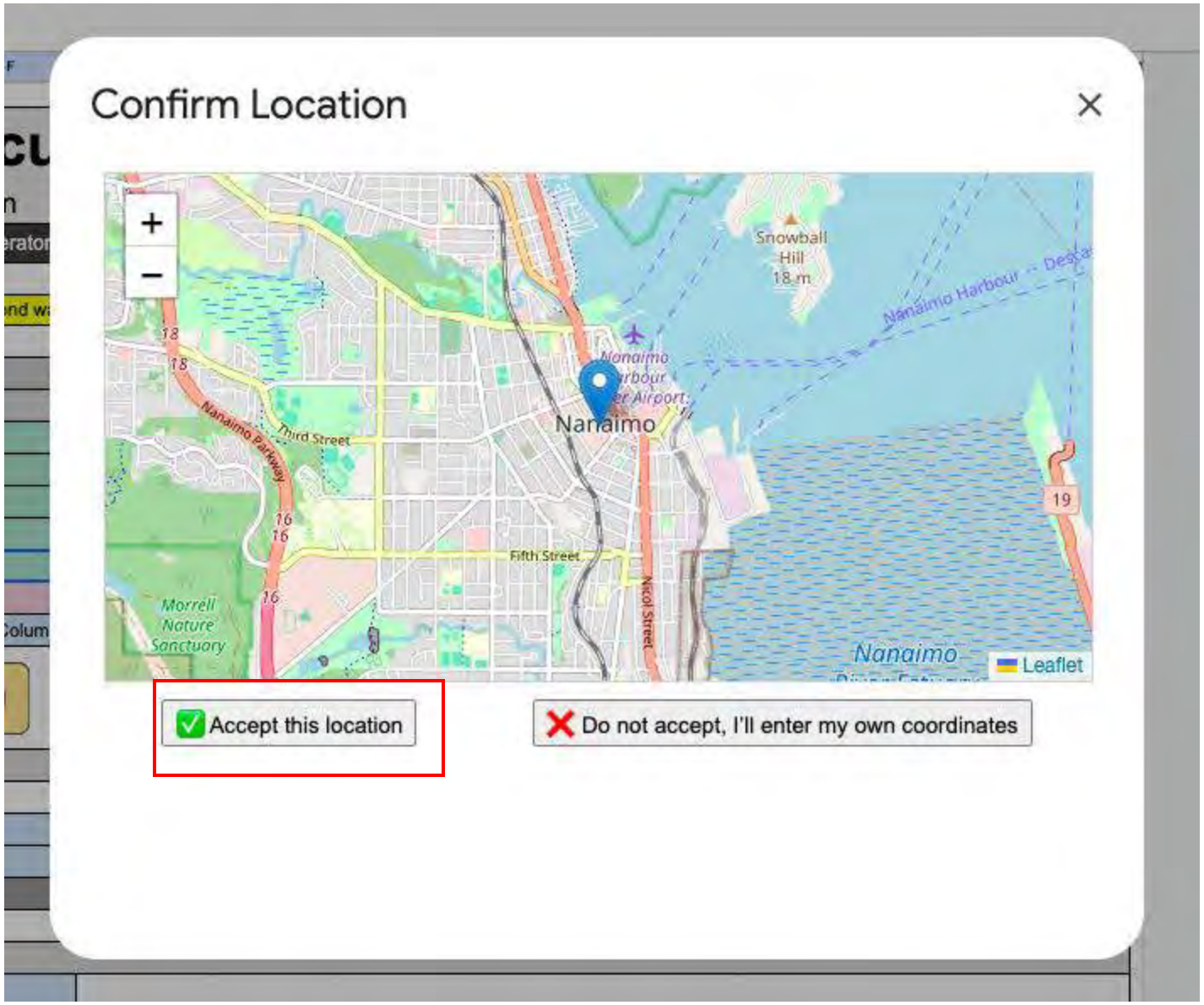
(M-1) Adjustment Factors | (M-2) Compliance Matrix | (A-1) Custom Climate | (A-2) C2 & C3 Generator

Confirm Location



✅ Accept this location

❌ Do not accept, I'll enter my own coordinates


Confirm Location
Snowball Hill 18 m
Nanaimo Harbour
Nanaimo
Third Street
Nanaimo Parkway
Fifth Street
Nicol Street
Morrell Nature Sanctuary
Nanaimo
Leaflet
Accept this location
Do not accept, I'll enter my own coordinates

Part 9 Bracing Calculator

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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	411	Fill out as many entries as possible for accurate locating.
Street	Dunsmuir	
Suffix	Street	
City	Nanaimo	
Province	British Columbia	
Postal Code		Optional
Address	411 Dunsmuir Street Nanaimo British Columbia	

GET COORDINATES AND SHOW LOCATION

Coordinates			
	Calculation	Custom Entry	
Latitude	49.1636515		*Coordinates provided via Nominatim – © OpenStreetMap contributors (ODbL).*
Longitude	-123.9387911		*Coordinates provided via Nominatim – © OpenStreetMap contributors (ODbL).*
Confirm	Yes		Select "No" to unlock Custom Entry

Confirmed Location Coordinates	
Latitude	49.164
Longitude	-123.939

CALCULATE SMAX

Part 9 Bracing Calculator

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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	411	Fill out as many entries as possible for accurate locating.
Street	Dunsmuir	
Suffix	Street	
City	Nanaimo	
Province	British Columbia	
Postal Code		Optional
Address	411 Dunsmuir Street Nanaimo British Columbia	

GET COORDINATES AND SHOW LOCATION

Coordinates			
	Calculation	Custom Entry	
Latitude	49.1636515		*Coordinates provided via Nominatim – © OpenStreetMap contributors (ODbL).*
Longitude	-123.9387911		*Coordinates provided via Nominatim – © OpenStreetMap contributors (ODbL).*
Confirm	Yes		Select "No" to unlock Custom Entry

Confirmed Location Coordinates	
Latitude	49.164
Longitude	-123.939

CALCULATE SMAX

(M-1) Adjustment Factors | (M-2) Compliance Matrix | (A-1) Custom Climate | (A-2) C2 & C3 Generator

Confirmed Location Coordinates		
Latitude	49.164	
Longitude	-123.939	

CALCULATE SMAX

Seismic Hazard Values for Confirmed Location - Seismic hazard information is sourced from Natural Resources Canada's 2020 National Building Code of Canada Seismic Hazard Tool				
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
B	1.0500	0.6830	**0.700**	View Seismic Data: Site Class B
C	1.3400	1.1600	**1.160**	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)
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			

REVIEW & CALCULATE SELECTED LOCATIONS

Confirmed Location Coordinates	
Latitude	49.164
Longitude	-123.939

CALCULATE SMAX

Seismic Hazard Values for Confirmed Location - Seismic hazard information is sourced from Natural Resources Canada's 2020 National Building Code of Canada Seismic Hazard Tool				
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
B	1.0500	0.6830	**0.700**	View Seismic Data: Site Class B
C	1.3400	1.1600	**1.160**	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)
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			

REVIEW & CALCULATE SELECTED LOCATIONS

Confirmed Location Coordinates	
Latitude	49.164
Longitude	-123.939

CALCULATE SMAX

Seismic Hazard Values for Confirmed Location - Seismic hazard information is sourced from Natural Resources Canada's 2020 National Building Code of Canada Seismic Hazard Tool				
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
B	1.0500	0.6830	**0.700**	View Seismic Data: Site Class B
C	1.3400	1.1600	**1.160**	View Seismic Data: Site Class C
D	1.3500	1.5000	**1.500**	
E	1.3300	1.5600	**1.560**	
Unknown			**1.560**	

https://www.earthquakes...

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)
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			

REVIEW & CALCULATE SELECTED LOCATIONS

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

Confirmed Location Coordinates	
Latitude	49.164
Longitude	-123.939

CALCULATE SMAX

Seismic Hazard Values for Confirmed Location - Seismic hazard information is sourced from Natural Resources Canada's 2020 National Building Code of Canada Seismic Hazard Tool				
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
B	1.0500	0.6830	**0.700**	View Seismic Data: Site Class B
C	1.3400	1.1600	**1.160**	View Seismic Data: Site Class C
D	1.3500	1.5000	**1.500**	
E	1.3300	1.5600	**1.560**	
Unknown			**1.560**	

https://www.earthquakes...

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)
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			

REVIEW & CALCULATE SELECTED LOCATIONS

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

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 X_S	X_C
Latitude (°)	49.164
Longitude (°)	-123.939

Please select one of the tabs below.

NBC 2020 | Additional Values | Plots | API | Background Information

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 X_S	X_C
Latitude (°)	49.164
Longitude (°)	-123.939

Please select one of the tabs below.

NBC 2020 | Additional Values | Plots | API | Background Information

Seismic Hazard Values

User requested values

Code edition	NBC 2020
Site designation X_S	X...
Latitude (°)	49.164
Longitude (°)	-123.939

Please select one of the tabs below.

NBC 2020 | Additional Values | Plots | API | Background Information

The 5%-damped spectral acceleration ($S_a(T,X)$, where T is the period, in s, and X is the site designation) and peak ground acceleration (PGA(X)) values are given in units of acceleration due to gravity (g, 9.81 m/s^2). Peak ground velocity (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

$S_a(0.2, X_C)$	$S_a(0.5, X_C)$	$S_a(1.0, X_C)$	$S_a(2.0, X_C)$	$S_a(5.0, X_C)$	$S_a(10.0, X_C)$	$PGA(X_C)$	$PGV(X_C)$
1.34	1.16	0.684	0.427	0.114	0.0457	0.573	0.686

Seismic Hazard Values

User requested values

Code edition	NBC 2020
Site designation X_S	X...
Latitude (°)	49.164
Longitude (°)	-123.939

Please select one of the tabs below.

NBC 2020 | Additional Values | Plots | API | Background Information

The 5%-damped spectral acceleration ($S_a(T,X)$, where T is the period, in s, and X is the site designation) and peak ground acceleration (PGA(X)) values are given in units of acceleration due to gravity (g, 9.81 m/s^2). Peak ground velocity (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.

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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

$S_a(0.2, X_C)$	$S_a(0.5, X_C)$	$S_a(1.0, X_C)$	$S_a(2.0, X_C)$	$S_a(5.0, X_C)$	$S_a(10.0, X_C)$	$PGA(X_C)$	$PGV(X_C)$
1.34	1.16	0.684	0.427	0.114	0.0457	0.573	0.686

Latitude	49.164
Longitude	-123.939

CALCULATE SMAX

Seismic Hazard Values for Confirmed Location - Seismic hazard information is sourced from Natural Resources Canada's 2020 National Building Code of Canada Seismic Hazard Tool				
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
B	1.0500	0.6830	**0.700**	View Seismic Data: Site Class B
C	1.3400	1.1600	**1.160**	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)
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			
					☐			

REVIEW & CALCULATE SELECTED LOCATIONS

Latitude	49.164
Longitude	-123.939

CALCULATE SMAX

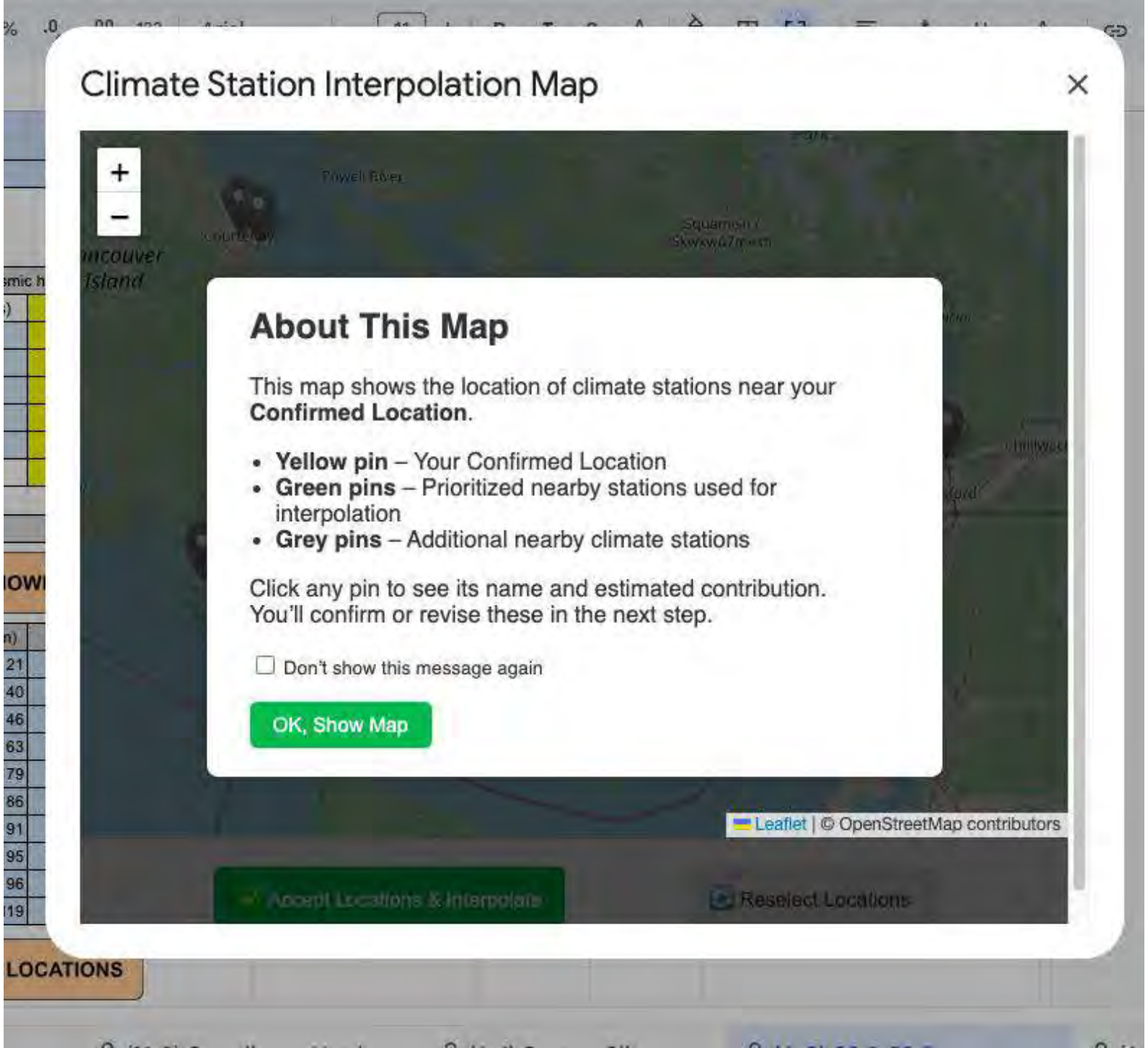
Seismic Hazard Values for Confirmed Location - Seismic hazard information is sourced from Natural Resources Canada's 2020 National Building Code of Canada Seismic Hazard Tool				
Site Class	S(0.2,Xs)	Sa(0.5, Xs)	**Smax**	*Seismic values retrieved from Natural Resources Canada, NBC 2020, used under Open Government Licence – Canada.*
A	0.8600	0.5340	**0.573**	View Seismic Data: Site Class A
B	1.0500	0.6830	**0.700**	View Seismic Data: Site Class B
C	1.3400	1.1600	**1.160**	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

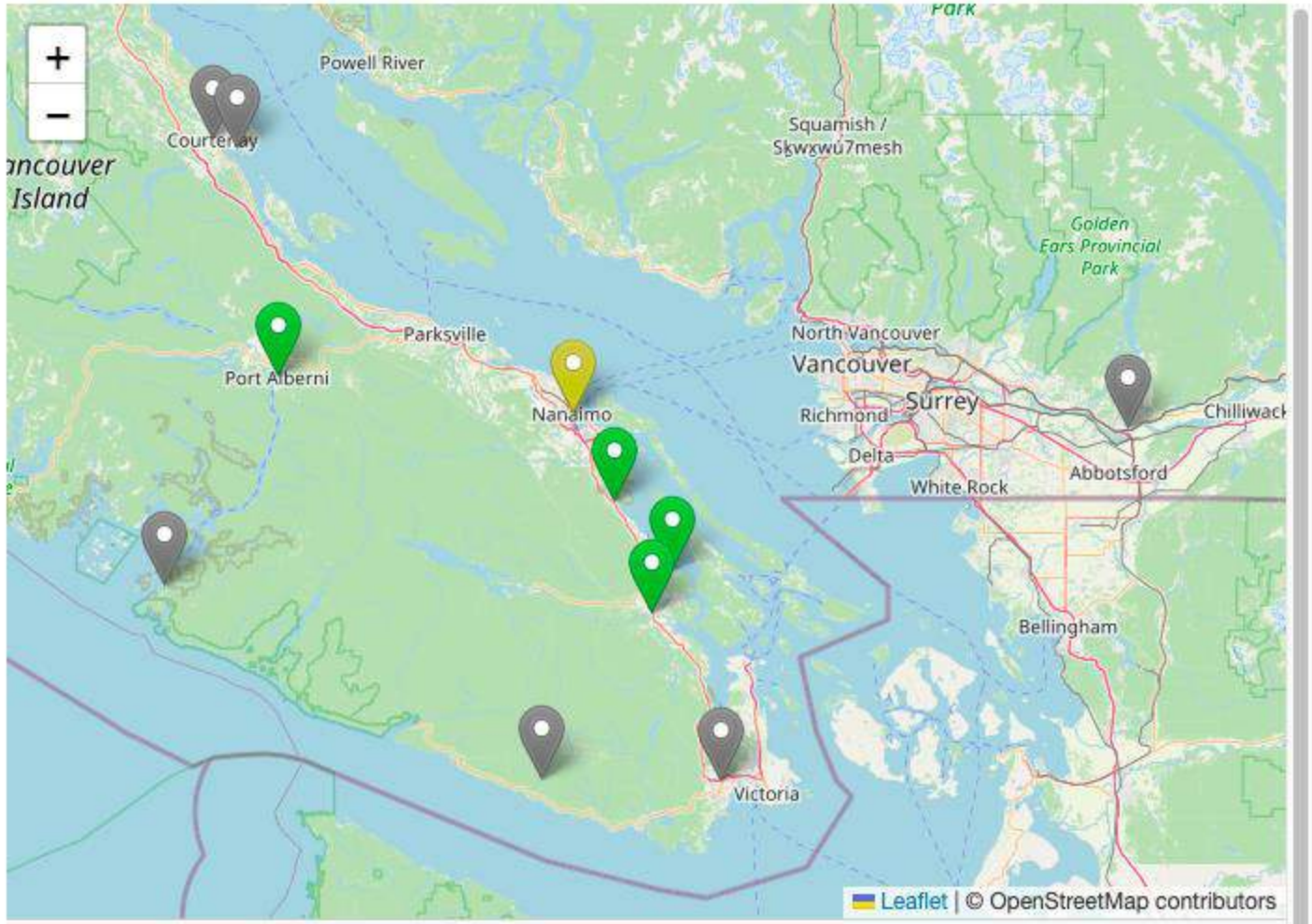
FIND NEARBY LOCATIONS WITH KNOWN DESIGN LOAD VALUES

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

REVIEW & CALCULATE SELECTED LOCATIONS

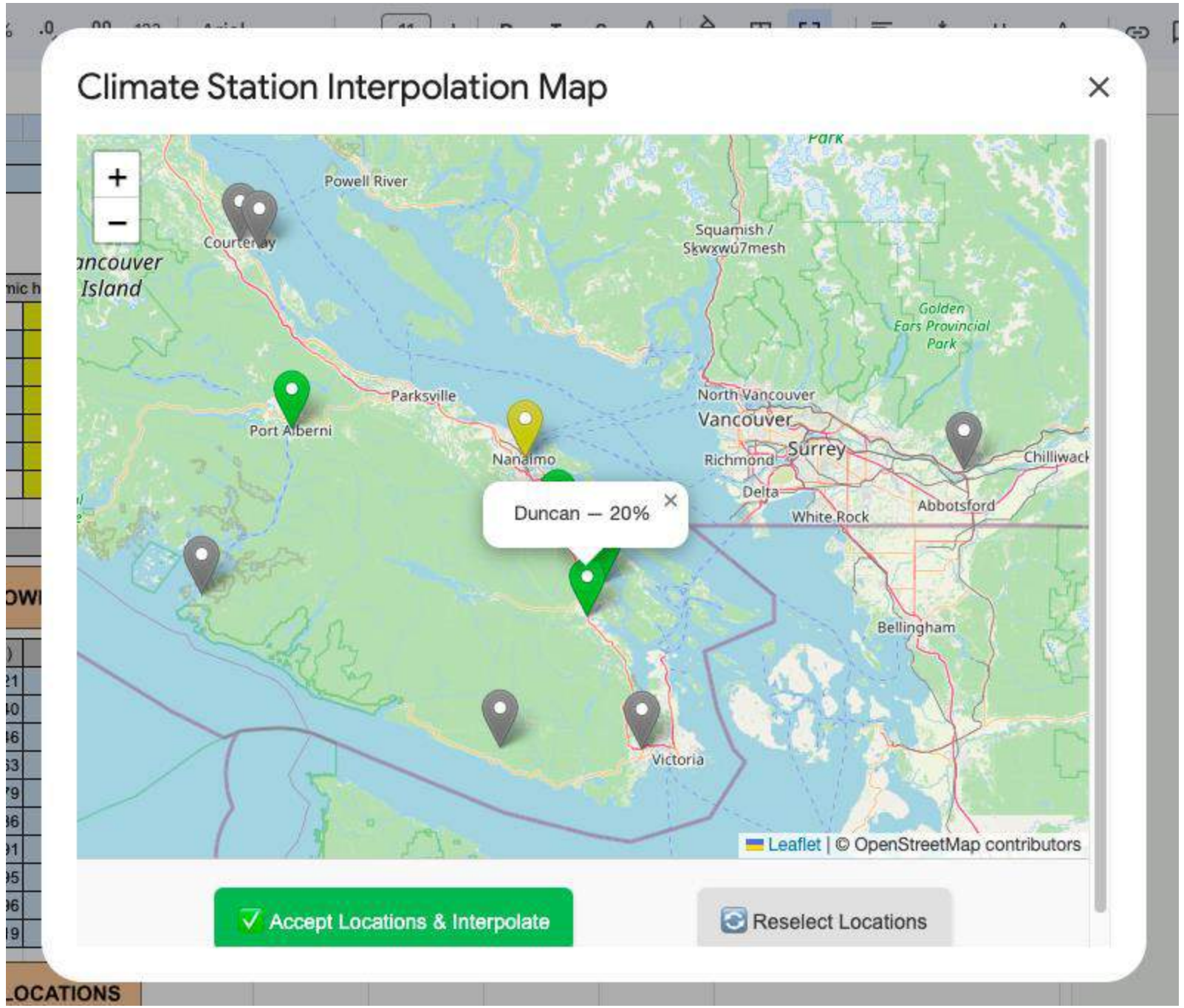

Climate Station Interpolation Map
About This Map
This map shows the location of climate stations near your Confirmed Location.
Yellow pin – Your Confirmed Location
Green pins – Prioritized nearby stations used for interpolation
Grey pins – Additional nearby climate stations
Click any pin to see its name and estimated contribution. You'll confirm or revise these in the next step.
Don't show this message again
OK, Show Map
Leaflet | © OpenStreetMap contributors
Reselect Locations

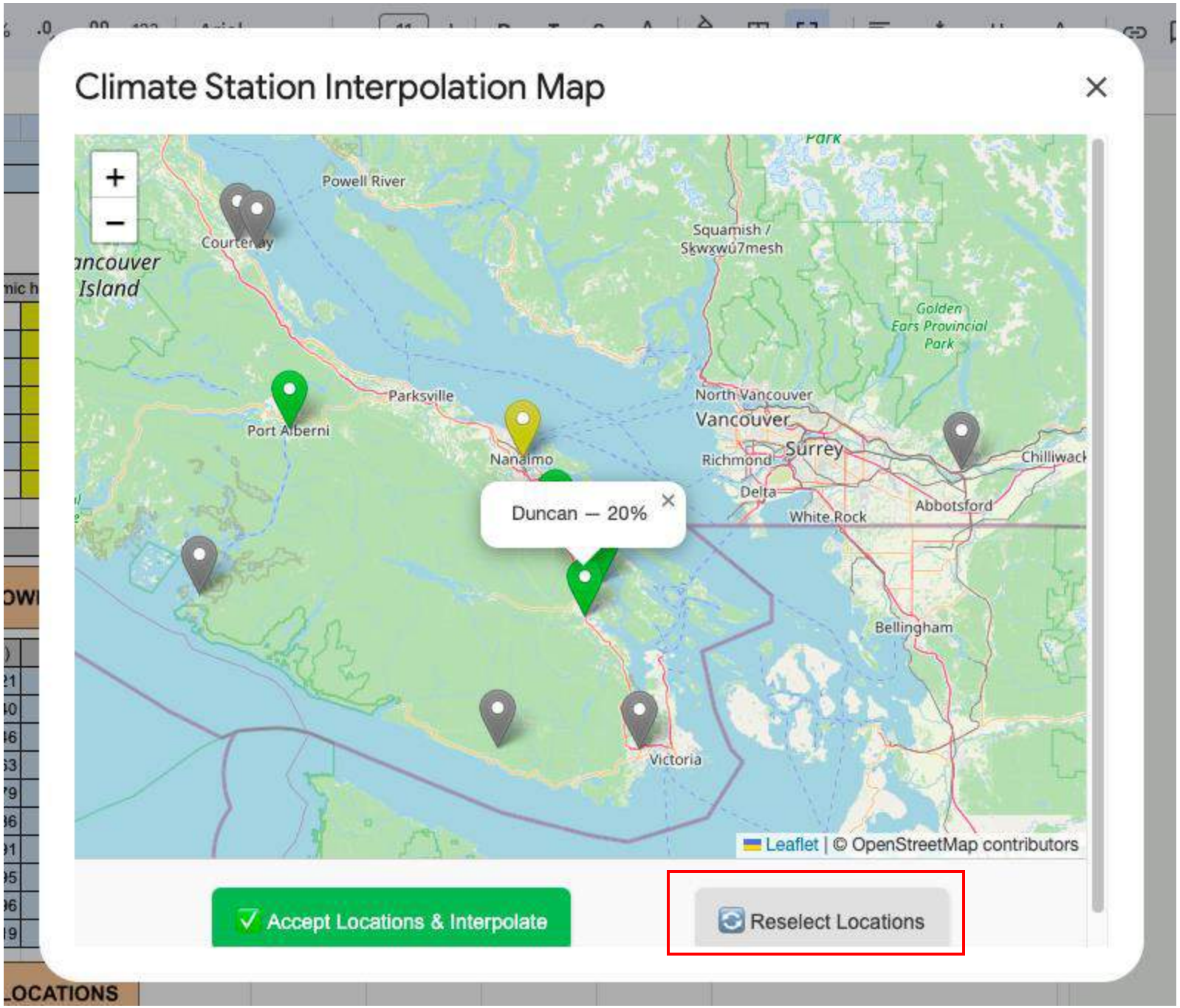
Climate Station Interpolation Map



✅ Accept Locations & Interpolate

Reselect Locations


Climate Station Interpolation Map
Powell River
Courtenay
Squamish / Skwxwú7mesh
Golden Ears Provincial Park
Parksville
Port Alberni
Nanaimo
North Vancouver
Vancouver
Surrey
Richmond
Delta
White Rock
Abbotsford
Chilliwack
Duncan — 20%
Bellingham
Victoria
Leaflet | © OpenStreetMap contributors
Accept Locations & Interpolate
Reselect Locations


Climate Station Interpolation Map
Powell River
Courtenay
Squamish / Skwxwú7mesh
Golden Ears Provincial Park
Parksville
Port Alberni
Nanaimo
North Vancouver
Vancouver
Surrey
Richmond
Delta
White Rock
Abbotsford
Chilliwack
Duncan — 20%
Bellingham
Victoria
Leaflet | © OpenStreetMap contributors
Accept Locations & Interpolate
Reselect Locations

Latitude	49.164
Longitude	-123.939

CALCULATE SMAX

Seismic Hazard Values for Confirmed Location - Seismic hazard information is sourced from Natural Resources Canada's 2020 National Building Code of Canada Seismic Hazard Tool				
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
B	1.0500	0.6830	**0.700**	View Seismic Data: Site Class B
C	1.3400	1.1600	**1.160**	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

Latitude	49.164
Longitude	-123.939

CALCULATE SMAX

Seismic Hazard Values for Confirmed Location - Seismic hazard information is sourced from Natural Resources Canada's 2020 National Building Code of Canada Seismic Hazard Tool				
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.*
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B	1.0500	0.6830	**0.700**	View Seismic Data: Site Class B
C	1.3400	1.1600	**1.160**	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

Latitude	49.164
Longitude	-123.939

CALCULATE SMAX

Seismic Hazard Values for Confirmed Location - Seismic hazard information is sourced from Natural Resources Canada's 2020 National Building Code of Canada Seismic Hazard Tool				
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
B	1.0500	0.6830	**0.700**	View Seismic Data: Site Class B
C	1.3400	1.1600	**1.160**	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

Latitude	49.164
Longitude	-123.939

CALCULATE SMAX

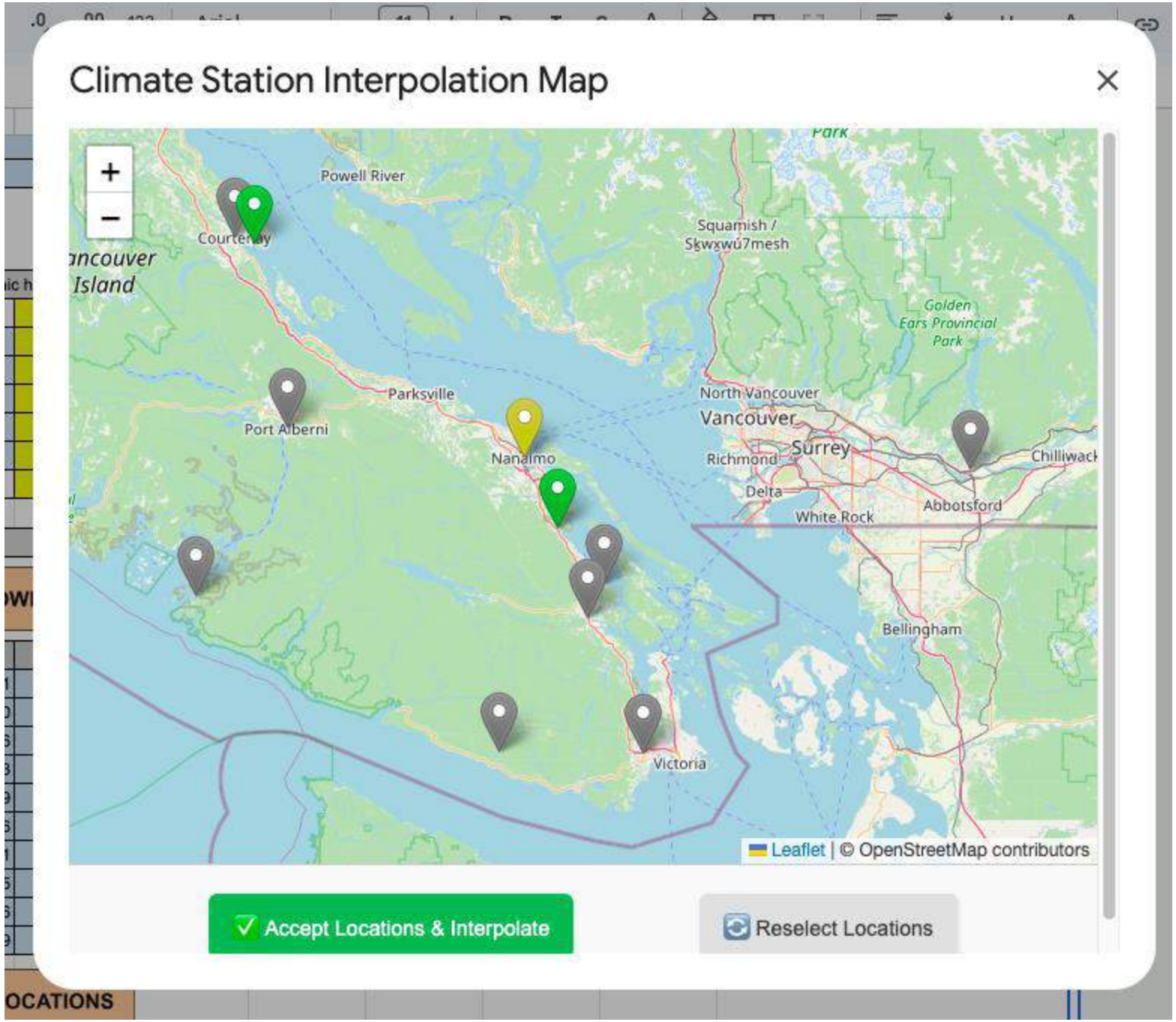
Seismic Hazard Values for Confirmed Location - Seismic hazard information is sourced from Natural Resources Canada's 2020 National Building Code of Canada Seismic Hazard Tool				
Site Class	S(0.2,Xs)	Sa(0.5, Xs)	**Smax**	*Seismic values retrieved from Natural Resources Canada, NBC 2020, used under Open Government Licence – Canada.*
A	0.8600	0.5340	**0.573**	View Seismic Data: Site Class A
B	1.0500	0.6830	**0.700**	View Seismic Data: Site Class B
C	1.3400	1.1600	**1.160**	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

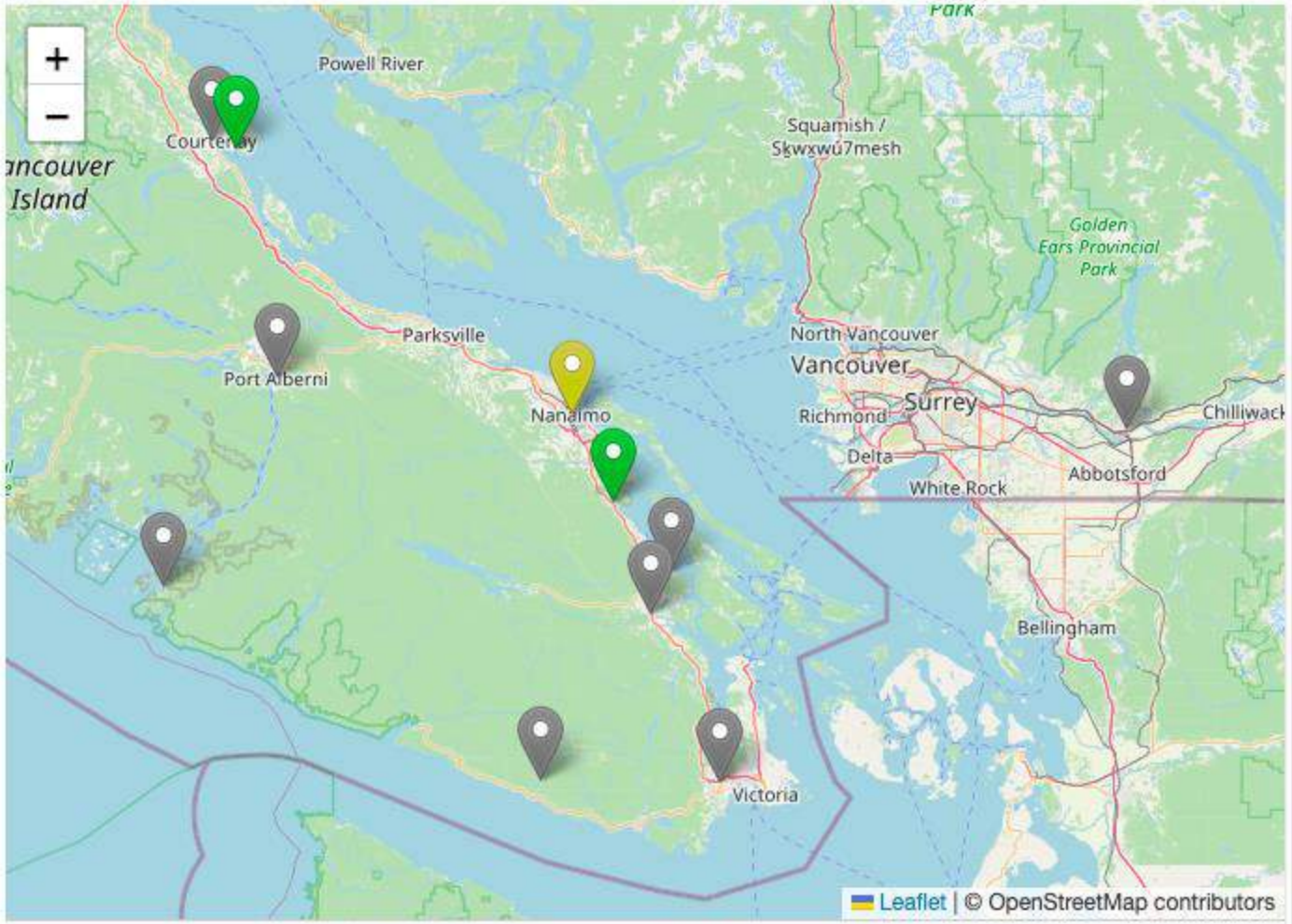
FIND NEARBY LOCATIONS WITH KNOWN DESIGN LOAD VALUES

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


Climate Station Interpolation Map
Powell River
Courtenay
Squamish / Sḵwx̱wú7mesh
Golden Ears Provincial Park
Parksville
Port Alberni
Nanaimo
North Vancouver
Vancouver
Surrey
Richmond
Delta
White Rock
Abbotsford
Chilliwack
Bellingham
Victoria
Leaflet | © OpenStreetMap contributors
Accept Locations & Interpolate
Reselect Locations

Climate Station Interpolation Map



✅ Accept Locations & Interpolate

Reselect Locations

C	1.3400	1.1600	**1.160**	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	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%	☑	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

Interpolated Snow and Wind Design for Confirmed Location	Ss	Sr	HWP (1/50)
Confirmed Location	**2.400**	**0.400**	**0.415**

IMPORT VALUES TO <CUSTOM CLIMATE>

Permit/File Number: BP_9999999 | Calculations completed by: Tim Warner - twarner@boabc.org |
<End of Sheet: (A-2) C2 & C3 Generator>

C	1.3400	1.1600	**1.160**	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	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%	☑	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

Interpolated Snow and Wind Design for Confirmed Location	Ss	Sr	HWP (1/50)
Confirmed Location	**2.400**	**0.400**	**0.415**

IMPORT VALUES TO <CUSTOM CLIMATE>

Permit/File Number: BP_9999999 | Calculations completed by: Tim Warner - twarner@boabc.org |
<End of Sheet: (A-2) C2 & C3 Generator>

Part 9 Bracing Calculator

RESET SHEET

beta_1.041

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 Seismic Data											
	Snow Loads		Specifed Snow Load (kPa)		HWP (1/50)	Site Class - Smax					
Location	Ss	Sr	Roof width <= 4.3m	Roof width > 4.3m		Unknown	A	B	C	D	E
<Custom Location>	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

GENERATE DESIGN VALUES

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

<End of Sheet (A-1) Custom Climate>

Part 9 Bracing Calculator

RESET SHEET

beta_1.041

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 Seismic 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	B	C	D	E
<Custom Location>	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

GENERATE DESIGN VALUES

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

<End of Sheet (A-1) Custom Climate>

(M-1) Adjustment Factors | (M-2) Compliance Matrix | (A-1) Custom Climate | (A-2) C2 & C3 Generator

Part 9 Bracing Calculator

RESET SHEET

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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 Seismic Data											
	Snow Loads		Specifed Snow Load (kPa)		HWP (1/50)	Site Class - Smax					
Location	Ss	Sr	Roof width <= 4.3m	Roof width > 4.3m		Unknown	A	B	C	D	E
<Custom Location>	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

GENERATE DESIGN VALUES

(I-1) General

er: BP_9999999 | Calculations completed by: Tim Warner - twarner@boabc.org |

<End of Sheet (A-1) Custom Climate>

(M-1) Adjustment Factors | (M-2) Compliance Matrix | (A-1) Custom Climate | (A-2) C2 & C3 Generator

Part 9 Bracing Calculator

RESET SHEET

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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 Seismic Data											
	Snow Loads		Specifed Snow Load (kPa)		HWP (1/50)	Site Class - Smax					
Location	Ss	Sr	Roof width <= 4.3m	Roof width > 4.3m		Unknown	A	B	C	D	E
<Custom Location>	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

GENERATE DESIGN VALUES

(I-1) General

er: BP_9999999 | Calculations completed by: Tim Warner - twarner@boabc.org |

<End of Sheet (A-1) Custom Climate>

(M-1) Adjustment Factors | (M-2) Compliance Matrix | (A-1) Custom Climate | (A-2) C2 & C3 Generator

Part 9 Bracing Calculator

For Design, Compliance and Construction

RESET SHEET | RESET CALCULATOR

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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		
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)	<Custom Location>	Click here to enter <Custom Location> climate and seismic data
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	
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?		

Part 9 Bracing Calculator

For Design, Compliance and Construction

RESET SHEET | RESET CALCULATOR

beta_1.041

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)	<Custom Location>	Click here to enter <Custom Location> climate and seismic data
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	
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?		

Part 9 Bracing Calculator

Dynamic Checklist

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Resources

GUIDES

- Illustrated Guide: Seismic Bracing Requirements (BCBC2018)
  Published by BC Housing
- Illustrated Guide: Lateral Bracing Requirements (BCBC2024)
  Published by BC Housing
- IRC Wall Bracing: 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 Google Sheet)
- BCBC 9.23.13 Plan Review Checklist (PDF)

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- BCBC 9.23.13 Plan Review Checklist (PDF)

Part 9 Bracing Calculator

Last Updated: 21 May 2025

For Design, Compliance and Construction

Plan Review Checklist (Dynamic)

Instructions:
This checklist can be used as a companion to the Part 9 Bracing Calculator or a standalone document. Start by entering your seismic and climate design data below, then move through the checklist from top to bottom.

Make selections only in the checkboxes in columns C, D E and F, with only one selection in each row. Once complete, all sections will be either green, or grey. The selection of "No" will illustrate a non-compliant position with BCBC Subsection 9.23.13, and if so revise your design or seek a Relaxation, Trade-Off or Exemption.

Smax	
HWP (1/50)	
Specified Snow Load (kPa)	

	Part 9 Compliance Path				Code Clause	
	Yes ☐	No ☐		Building is no greater than 600m2 in building area	Div A 1.3.3.3	
	Yes ☐	No ☐		Building is Group C, D, E, F2 and/or F3 major occupancy	Div A 1.3.3.3	
	Yes ☐	No ☐		Building is no greater than 3 storeys in building height	Div A 1.3.3.3	

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Part 9 Bracing Calculator

Last Updated: 21 May 2025

For Design, Compliance and Construction

Plan Review Checklist (Dynamic)

Instructions:
This checklist can be used as a companion to the Part 9 Bracing Calculator or a standalone document. Start by entering your seismic and climate design data below, then move through the checklist from top to bottom.

Make selections only in the checkboxes in columns C, D E and F, with only one selection in each row. Once complete, all sections will be either green, or grey. The selection of "No" will illustrate a non-compliant position with BCBC Subsection 9.23.13, and if so revise your design or seek a Relaxation, Trade-Off or Exemption.

Smax	1.55
HWP (1/50)	0.48
Specified Snow Load (kPa)	1.555

	Part 9 Compliance Path				Code Clause	
	Yes ☐	No ☐		Building is no greater than 600m2 in building area	Div A 1.3.3.3	
	Yes ☐	No ☐		Building is Group C, D, E, F2 and/or F3 major occupancy	Div A 1.3.3.3	
	Yes ☐	No ☐		Building is no greater than 3 storeys in building height	Div A 1.3.3.3	

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Instructions:
This checklist can be used as a companion to the Part 9 Bracing Calculator or a standalone document. Start by entering your seismic and climate design data below, then move through the checklist from top to bottom.

Make selections only in the checkboxes in columns C, D E and F, with only one selection in each row. Once complete, all sections will be either green, or grey. The selection of "No" will illustrate a non-compliant position with BCBC Subsection 9.23.13, and if so revise your design or seek a Relaxation, Trade-Off or Exemption.

Smax	1.55
HWP (1/50)	0.48
Specified Snow Load (kPa)	1.555

		Yes	No			
☑	Part 9 Compliance Path					Code Clause
		☑	☐		Building is no greater than 600m2 in building area	Div A 1.3.3.3
		☑	☐		Building is Group C, D, E, F2 and/or F3 major occupancy	Div A 1.3.3.3
		☑	☐		Building is no greater than 3 storeys in building height	Div A 1.3.3.3
☐	Section 9.23 Compliance Path					Code Clause
		☐	☐		All, floor and roof planes are generally comprised of lumber frames of small repetitive structural members, or engineered components	9.23.1.1.(1)(a)

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	Yes ☑	No ☐		Building is no greater than 3 storeys in building height	Div A 1.3.3.3
☐	**Section 9.23 Compliance Path**				**Code Clause**
	Yes ☑	No ☐		All, floor and roof planes are generally comprised of lumber frames of small repetitive structural members, or engineered components	9.23.1.1.(1)(a)
	Yes ☑	No ☐		Roof and wall planes are clad, sheathed or braced on at least one side	9.23.1.1.(1)(b)
	Yes ☑	No ☐		Wood-framed constructions do not serve as foundations	9.23.1.1.(1)(c)
	Yes ☑	No ☐		The specified live load on supported subfloors and floor framing does not exceed 2.4kPa	9.23.1.1.(1)(d)
	Yes ☐	No ☑		The span of any structural member does not exceed 40' (12.20m)	9.23.1.1.(1)(e)
☐	**Subsection 9.23.13 Compliance Path (Complete Path 1 or Path 2)**				**Code Clause**
☐	N/A ☐	Path 1 - Simplified Approach			9.23.13.1
	Yes ☐	No ☐		[illegible]	9.23.13.1.(1) 9.23.13.11.(1)(a)

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☐	Subsection 9.23.13 Compliance Path (Complete Path 1 or Path 2)				Code Clause
☐	N/A ☐	Path 1 / Simplified Approach			9.23.13.1
		Yes ☐	No ☐	Snow (C) is not greater than [illegible]	9.23.13.1.(1) 9.23.13.11.(1)(a)
		Yes ☐	No ☐	HWP (1/50) is not greater than [illegible]	9.23.13.1.(1) 9.23.13.11.(1)(b)
		Yes ☐	No ☐	Specified snow load is not greater than [illegible]	9.23.11.(1)(c) 9.4.2.2
		Yes ☐	No ☐	Building plan dimensions are not greater than [illegible]	9.23.13.11.(1)(d)
		Yes ☐	No ☐	Terrain is Rough	9.23.13.11.(1)(e)
		Yes ☐	No ☐	Eave-to-Ridge height is not greater than [illegible]	9.23.13.11.(1)(f)
		Yes ☐	No ☐	Panels are constructed with gypsum board on at least one side	9.23.13.11.(1)(g)
		Yes ☐	No ☐	All [illegible]	9.23.13.11.(1)(h)

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FALSE

		Yes ☐	No ☐		All Sheets are continuously sheathed	9.23.13.11.(1)(h)		
		Yes ☐	No ☐		Bracing is of Normal Weight Construction	9.23.13.11.(1)(i)		
☐	N/A ☐	**Path 2** - The Calculation Method				9.23.13.2		
		Yes ☑	No ☐		Smax is not greater than 2.6	9.23.13.2.(1)(c)		
		Yes ☑	No ☐		HWP (1/50) not greater than 1.2kPa	9.23.13.2.(1)(b)		
	N/A ☐	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/A ☐	Yes ☐	No ☐		Lowest exterior wood-framed wall supports a roof, and not more than 1 floor of; Heavy Weight Construction, or Fully clad with Masonry or Stone Veneer	9.23.13.2.(1)(d)(ii)		
☐	N/A ☐	Additional System Considerations (Earthquake and Tornadoes)				9.23.13.10		
		Yes ☐	No ☐		Smax is not greater than 2.6	9.23.13.10.(1)(a)		
		Yes ☐	No ☐		HWP (1/50) not greater than 1.2kPa	9.23.13.10.(1)(b)		

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		Yes ☐	No ☐		All Bands are continuously sheathed	9.23.13.11.(1)(h)		
		Yes ☐	No ☐		Bracing is of Normal Weight Construction	9.23.13.11.(1)(i)		
☑	N/A ☐	**Path 2** - The Calculation Method				9.23.13.2		
		Yes ☑	No ☐		Smax is not greater than 2.6	9.23.13.2.(1)(c)		
		Yes ☑	No ☐		HWP (1/50) not greater than 1.2kPa	9.23.13.2.(1)(b)		
	N/A ☐	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/A ☑	Yes ☐	No ☐		Lowest exterior wood-framed wall supports a roof, and not more than 1 floor of Heavy Weight Construction or Party Wall with Masonry or Stone Veneer	9.23.13.2.(1)(d)(ii)		
☐	N/A ☐	Additional System Considerations (Exemptions and Trade-Offs)				9.23.13.10		
		Yes ☐	No ☐		Smax is not greater than 1.2	9.23.13.10.(1)(a)		
		Yes ☐	No ☐		HWP (1/50) not greater than 1.2kPa	9.23.13.10.(1)(b)		

☐	The Part 9 Lateral Bracing Rules					Rule Code Clause	Relaxation or Trade-Off Code Clause
☐	Band Rules					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)	
						9.23.13.5.(3)	

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	The Part 9 Lateral Bracing Rules					Rule Code Clause	Relaxation or Trade-Off Code Clause
☐	Band Rules					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)	
						9.23.13.5.(3)	

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	The Part 9 Lateral Bracing Rules					Rule Code Clause	Relaxation or Trade-Off Code Clause
☐	Band Rules					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)	
		Yes ☐	No ☐		[illegible]	9.23.13.4.(1)(e)	9.23.13.5.(2)(b) 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) 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)	
		Yes	No		[illegible]	9.23.13.5.(3)	

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☐	Band Rules					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)	
						9.23.13.4.(1)(e)	9.23.13.5.(2)(b) 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) 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)	
						9.23.13.5.(3)	
	N/A ☐	☐	No ☐		Bands in Basements/Crawlspaces are located beneath all wood-based Bands above	9.23.13.6.(3)(b)	

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☑	Band Rules					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 stacks 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 openings in floor elevations greater than one floor unit	9.23.13.4.(2)	
	N/A ☑	Yes ☐	No ☐		Bands at ridges and hips, are extended into the roof framing, or to truss top chord	9.23.13.5.(3)	
	N/A ☑	Yes ☐	No ☐		Bands in Basements/Crawlspaces are located beneath all wood-based floors above	9.23.13.6.(3)(b)	

Dynamic Standard

☐	Panel Rules					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" (0.6m) 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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B	C	D	E	F	G	H	I
☑	Panel Rules					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" (0.6m) 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 ☐		[illegible]	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 ☐	R or T ☐	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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						9.23.13.5.(3)	
☐	Material Selection Rules					9.23.13.6	
		Yes ☐	No ☐		Panels are designed with wood-based or gypsum-based primary bracing sheathing	9.23.13.6.(1)	
	N/A ☐	Yes ☐	No ☐		The most restrictive form is used in the Method of Calculation when different Panel materials are used within the same Band (see details)	9.23.13.6.(5)	
	N/A ☐	Yes ☐	No ☐		Bands using wood-based Panels are supported by Bands using wood-based Panels	9.23.13.6.(4)	
	N/A ☐	Yes ☐	No ☐		Panels in a Basement/Crawlspace are wood-based	9.23.13.6.(3)	
	N/A ☐	Relaxations				Relaxation Code Clause	
☐	N/A ☐	Band Spacing Relaxation				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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						9.23.13.5.(3)	
☑	Material Selection Rules					9.23.13.6	
		Yes ☑	No ☐		Panels are designed with wood-based or gypsum-based primary bracing sheathing	9.23.13.6.(1)	
						9.23.13.6.(5)	
						9.23.13.6.(4)	
						9.23.13.6.(3)	
	N/A ☐	Relaxations				Relaxation Code Clause	
☐	N/A ☐	Band Spacing Relaxation				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 ☐	Relaxations				Relaxation Code Clause	
☐	N/A ☐	Band Spacing Relaxation				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 ☐	Yes ☐	No ☐			9.23.13.10(5)(d)	
☐	N/A ☐	Cripple Walls Relaxation					
		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 ☐	Yes ☐	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 and 16' 5" (5m) long	9.23.13.8.(3)(b) and (c)	

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						9.23.13.10.(1)(b)	
☑	The Part 9 Lateral Bracing Rules					Rule Code Clause	Relaxation or Trade-Off Code Clause
☑	Band Rules					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)
						9.23.13.4.(2)	

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	N/A ☐	Relaxations				Relaxation Code Clause	
☐	N/A ☐	Band Spacing Relaxation				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 ☐					9.23.13.10(5)(d)	
☐	N/A ☐	Cripple Walls Relaxation					
		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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	N/A ☑	Relaxations:					Relaxation Code Clause	
☐	N/A ☐	Band Spacing Relaxation					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, internal 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 ☐	Yes ☐	No ☐		Determination of Band spacing does not take into account Bands constructed for Unpierced Story / Setback Wall Trade-Off		9.23.13.10(5)(d)	
☐	N/A ☐	Cripple Walls Relaxation						
		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 ☐	Yes ☐	No ☐		Span is no greater than 9.8ft. and cripple walls are no greater than 4' (1.2m) high and 19.8" (5cm) thick		9.23.13.8.(2)(a)(b)	
	N/A	Yes	No		Span is greater than 9.8ft. and cripple walls are not greater than 1' 2" (0.35m) high		9.23.13.8.(3)(b) and (c)	

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	N/A ☐	Exemptions					Exemption Code Clause	
☐	N/A ☐	Garage Front Wall Exemption					9.23.13.10.(3)	
		Yes ☐	No ☐		The detached garage serves a single dwelling unit		9.23.13.10.(3)	
		Yes ☐	No ☐		The detached garage does not support a floor		9.23.13.10.(3)	
☐	N/A ☐	Detached Garage/Accessory 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/Enclosed Space Extension						
		Yes	No		Single open or enclosed space (porch, sunroom etc.)		9.23.13.10.(2)	

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	N/A ☐	Trade-Offs					Trade-Off Code Clause	
☐	N/A ☐	Garage Door Trade-Off					9.23.13.10.(4)	
		Yes ☐	No ☐		The distance from the front to the back wall of the garage is not greater than 24' 11" (7.6m)		9.23.13.10.(4)(a)	
		Yes ☐	No ☐		The garage supports not more than 1 floor		9.23.13.10.(4)(b)	
		Yes ☐	No ☐		50% of each wall and 25% of each side will be constructed with wood-based Panels		9.23.13.10.(4)(c) and (d)	
☐	N/A ☐	Uppermost Storey Setback Wall Trade-Off					9.23.13.10.(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 at most not more than 34' 9" (10.6m) from the exterior wall of the storey below the setback wall		9.23.13.(5)(a)	
		Yes ☐	No ☐		Adjacent Interior Band of the storey below the setback wall is constructed with wood-based Panels		9.23.13.10.(5)(b)	
		Yes ☐	No ☐		Adjacent Interior Band of the storey below the setback wall continues to the foundation		9.23.13.10.(5)(c)	

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Part 9 Bracing Calculator

Last Updated: 21 May 2025

For Design, Compliance and Construction

Plan Review Checklist (Dynamic)

Instructions:
This checklist can be used as a companion to the Part 9 Bracing Calculator or a standalone document. Start by entering your seismic and climate design data below, then move through the checklist from top to bottom.

Make selections only in the checkboxes in columns C, D E and F, with only one selection in each row. Once complete, all sections will be either green, or grey. The selection of "No" will illustrate a non-compliant position with BCBC Subsection 9.23.13, and if so revise your design or seek a Relaxation, Trade-Off or Exemption.

Smax	1.19
HWP (1/50)	0.46
Specified Snow Load (kPa)	1.555

	Part 9 Compliance Path				Code Clause	
	Yes ☑	No ☐		Building is no greater than 600m2 in building area	Div A 1.3.3.3	
	Yes ☑	No ☐		Building is Group C, D, E, F2 and/or F3 major occupancy	Div A 1.3.3.3	
	Yes ☑	No ☐		Building is no greater than 3 storeys in building height	Div A 1.3.3.3	

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FALSE

B	C	D	E	F	G	H	I
	N/A ☑	Yes ☐	No ☐		[illegible]	9.23.13.2.(1)(d)(ii)	
☐	N/A ☐	Additional System Considerations (Exemptions and Trade-Offs)				9.23.13.10	
		Yes ☐	No ☐		Smax is not greater than 1.2	9.23.13.10.(1)(a)	
		Yes ☐	No ☐		HWP (1/50) not greater than 1.2kPa	9.23.13.10.(1)(b)	
☑	The Part 9 Lateral Bracing Rules					Rule Code Clause	Relaxation or Trade-Off Code Clause
☑	Band Rules					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)	

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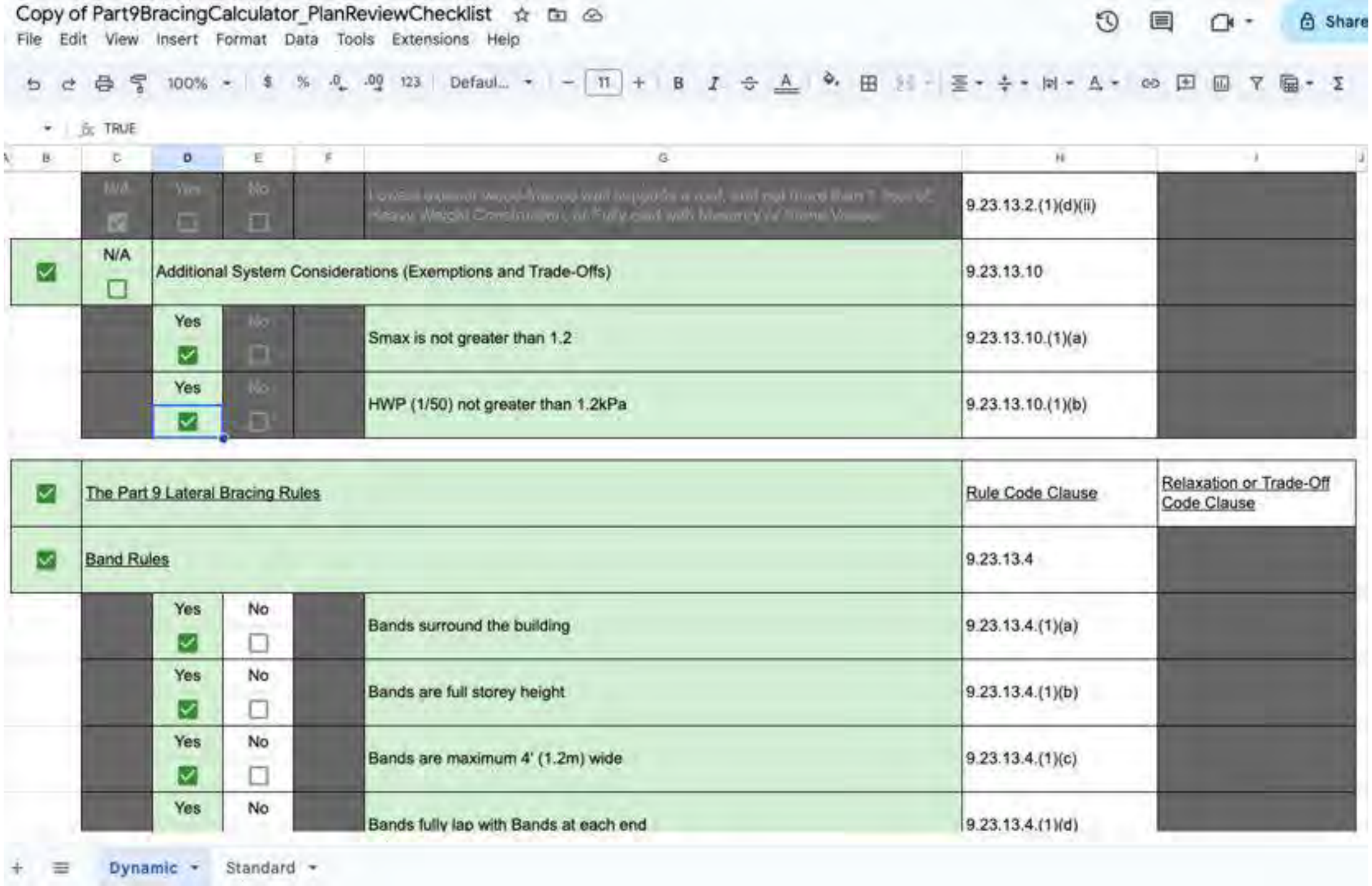
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TRUE
N/A
Yes
No
9.23.13.2.(1)(d)(ii)
N/A
Additional System Considerations (Exemptions and Trade-Offs)
9.23.13.10
Yes
Smax is not greater than 1.2
9.23.13.10.(1)(a)
Yes
HWP (1/50) not greater than 1.2kPa
9.23.13.10.(1)(b)
The Part 9 Lateral Bracing Rules
Rule Code Clause
Relaxation or Trade-Off Code Clause
Band Rules
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)
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	N/A ☐	Exemptions				Exemption Code Clause	
☐	N/A ☐	Garage Front Wall Exemption				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 Garage/Accessory 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/Enclosed Space Exemption					
		Yes	No		Single open or enclosed space (porch, sunroom etc.)	9.23.13.10.(2)	

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	N/A ☐	Trade-Offs				Trade-Off Code Clause	
☐	N/A ☐	Garage Door Trade-Off				9.23.13.10.(4)	
		Yes ☐	No ☐		The distance from the front to the back wall of the garage is not greater than 24' 11" (7.6m)	9.23.13.10.(4)(a)	
		Yes ☐	No ☐		The garage supports not more than 1 floor	9.23.13.10.(4)(b)	
		Yes ☐	No ☐		50% of back wall and 25% of each side wall is constructed with wood-based Panels	9.23.13.10.(4)(c) and (d)	
☐	N/A ☐	Uppermost Storey Setback Wall Trade-Off				9.23.13.10.(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	9.23.13.(5)(a)	
		Yes ☐	No ☐		Adjacent interior Band of the storey below the setback wall is constructed with wood-based Panels	9.23.13.10.(5)(b)	
		Yes ☐	No ☐		Adjacent interior Band of the storey below the setback wall continues to the foundation	9.23.13.10.(5)(c)	

End/Questions:

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