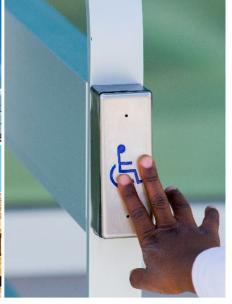


BC Building Code Changes for 2018 Welcome

British Columbia BUILDING CODE 2018

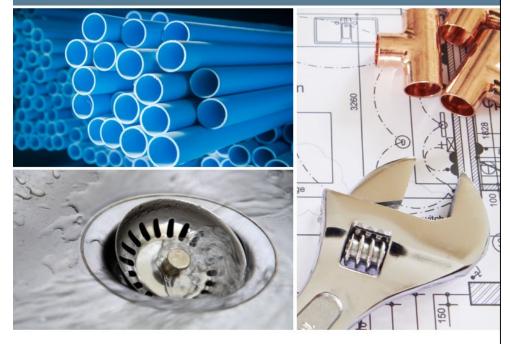








British Columbia PLUMBING CODE 2018

















We would like to Acknowledge the following Partners: And the BOABC Code Update Team













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Welcome to the BCBC 2018 Update Sessions

Session 1.0

BC Building Code

Specific to

Preface
Division A Parts 1-3
Division B General
Division C Administrative

British Columbia
BUILDING CODE 2018



OFFICIAL S. P. SOO. NOILA

2018 BC Building Code Outline

- Introduction
- Compliance with Codes
 - Which Building Code to use for building permit applications?
- Preface
- What's new?
 - New Structure
 - Reorganization of Section 3.8
 - Reorganization of Part 6
 - Relocation of Fire and Sound Resistance Tables and Span Tables
- Division A Part 1-3, Division B Part 1 General, and Division C Administrative

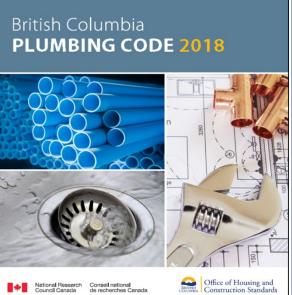


BC Building Code Changes for 2018

British Columbia **BUILDING CODE 2018**







Introduction

- The Province has adopted the 2018 edition of the British Columbia Building Code (BC Building Code), which includes Book I (General) and Book II (Plumbing Systems).
- Effective Date December 10, 2018



Introduction to the Code

- The National Codes 2015 adopted about 600 technical changes to enhance code language clarity, introduce new concepts, and expand existing requirements.
- Some of the important changes to the National Codes include: updates to airborne sound transmission ratings, seismic design and climatic data; and updates to stairs, ramps, handrails and guards, including an increase to the run dimensions for residential dwellings.



2018 BC Building Code

Compliance with Codes

Which Building Code to use?

- The Province adopted the 2018 Edition of the BC Building Code including Book II Plumbing Services with an effective date of December 10, 2018
- What does this apply to?
 - The BC Building Code 2018 will apply to building permits applied for on or after December 10, 2018.
 - The **2012 BC Building Code** will apply to building **permits applied for <u>prior to</u>** December 10, 2018.
 - Buildings with permits in place under the 2012 BC Building Code are not affected.

- The BC Building Code 2018 is based on the model National Building and Plumbing Codes of Canada 2015 (National Codes 2015).
 - Material that isn't relevant to the BCBC has been deleted
 - Minor BCBC specific edits within the text have been made
 - Additional information only relevant to the BCBC has been included in text boxes within the document
- This edition of the BCBC succeeds the 2012 edition.



- The National Fire Code of Canada is adopted, including any variations considered necessary, as the British Columbia Fire Code (BCFC), pursuant to the Fire Services Act.
- The National Energy Code of Canada for Buildings (NECB) is adopted by reference from Book I (General) of the British Columbia Building Code.



Intent Statements

 BCBC 2018 does not include any intent statements since NRC has not yet published intent statements for the NBC 2015. Note that alternative solutions prepared for the BCBC 2018 will not be able to include intent statements.

Change Indication

- Vertical line = technical changes and additions from NBC 2010 to NBC 2015.
- <u>Blue text underlined</u> = technical changes and additions from BCBC 2012 to BCBC 2018.
- **No change indication** is provided for BCBC 2012 provisions that are carried forward to BCBC 2018.
- No change indication is provided for renumbering or deletions from the NBCC.
- Reserved is included in place of certain deleted Codes Canada model content which has not been adopted.



New Structure

- The 2018 BC Building Code contains three Volumes, Book I General, which consists of two Volumes and Book II Plumbing Systems.
- Improved for ease of access to interdependent provisions
- Explanatory Notes for Division B provisions (formerly grouped in Appendices A & B) are now at the END of each PART to which they apply.
 - Eg: the Notes to Part 3 are at the end of Part 3, etc.
- The Attribution Tables are now included with each Part instead of being grouped in Volume 1
- Appendices C and D are now at the end of Volume 1
- Part 9 along with its Attribution Table and explanatory Notes is now self-contained in Volume 2



Reorganization of Section 3.8

- To improve clarity and ease of use,
- The application and design provisions in Section 3.8. of Division B have been separated and regrouped according to subject matter into three Subsections: Scope, Application and Design.

Reorganization of Part 6

- The provisions in Part 6 of Division B have been reorganized into a more logical sequence and divided according to major mechanical elements.
- General provisions are now grouped at the front end followed by system-specific provisions, which allows for easier, more intuitive access to information.



Relocation of Fire and Sound Resistance Tables and Span Tables

- The fire and sound resistance tables which were previously located in Appendix Note A-9.10.3.1. of Division B have been moved to the end of the Part 9 provisions as Tables 9.10.3.1.-A and 9.10.3.1.-B.
- They have been relocated because they contain specifications for assembly construction that represent acceptable solutions to requirements for minimum sound transmission ratings in Parts 5 & 9 and to requirements for minimum fire-resistance ratings in Part 9.
- The Section 9.23. Span Tables have also been moved to the end of the Part 9 provisions.



Division A – Part 1-3 and Division B – Part 1 General

Div A Part 1

1.1.1.(2)(g)

 Clarification that "siting" of factory built housing is not exempt from the BCBC 2018. This means that spatial separations would apply.

1.1.1.1.(5)

- Table 1.1.1.1.(5) for **Heritage Buildings** is renumbered and relocated from Appendix A to the body of Division A.
- Since Appendix notes have no legal effect per Div A Subsection 1.1.3., this
 relocation now provides legal effect to this Table.



Div A Part 1

Table 1.1.1.1.(5) – Item 20 HERITAGE BUILDING

- The BCBC 2012 only mentions the retention of existing non-safety glass in doors and sidelights in heritage buildings.
- The BCBC 2018 clarifies that existing non-safety glass in heritage buildings can be retained for all glazed components described in Article 3.3.1.19. (e.g. transparent panels, sliding glass partitions and windows in public areas with sill lower than 1000 mm.).
- Note that these glazed components can only be retained if sufficiently discernible safety features or guards are provided in hazardous situations.



Division A – Part 1-3 and Division B – Part 1 General

Div A Part 1

Table 1.1.1.1.(5) – Item 27 HERITAGE BUILDING



- Reference to 3.4.5.1.(2) and 9.9.11.3.(2), (5) & (6) have been removed because they do not relate to illumination of the exit signs.
- BSSB has confirmed that the removal of reference to 3.4.5.1.(2) was to clarify that a renovation of a **heritage building** would not require modifications to the location or the look of the exit sign. It is not intended to mandate the replacement of existing red exit signs with the green running man when a heritage building is renovated. This is further clarified in the revision to 2.7.3.1. of the BC Fire Code.
- Note that <u>if new exit signs are added</u>, or if existing red exit signs are <u>replaced</u>, the new exit signs would have to be the **green running man**.



Div A Part 1

1.3.3.4.(2)(a) Building Size Determination

- The BCBC 2012 had special provisions for determining building height for stepped buildings on sloping sites, but they only applied to residential buildings where each step is not more than 3 storeys.
- The BCBC 2018 extends these provisions to include assembly and business use where each step is not more than 4 storeys as well as residential.



- Access Definition of access or accessible is revised to include easy to approach, operate, participate in, use safely & independently
- ASTC New definition for "Apparent sound transmission class (ASTC) which includes both the direct and flanking sound transmission paths
- Barrier free Definition in the NBC 2015 "barrier free" is deleted since the BCBC 2018 uses the term "access or accessibility"
- Closure Definition of closer adds fire dampers
- Dangerous Goods Definition adds reference to HC SOR/2015-17 Hazardous Products Regulations



- **Fire separation** Note A-1.4.1.2.(1) is added which clarifies that a fire separation is expected to act as a barrier to the spread of smoke and fire. If the fire resistance rating of the fire separation is waived due to the installation of an automatic sprinkler system, this barrier is expected to remain in place until the sprinklers have actuated.
- Flight New definition of stair flight is added. Also new drawings are provided in Div A Note A-1.4.1.2.(1)
- Owner Definition of the NBC 2015 "owner" is deleted. This is consistent with the BCBC 2012 since most AHJs define "owner" in their building bylaws.



- **Persons with disabilities -** Definition is expanded to include permanent or temporary physical, mental, intellectual or sensory impairment to be offered full and effective participation in society on an equal basis with others. This change is to align with the United Nations definition.
- Run New definition of stair run. Refer to Figure A-9.8.4.-B in Note A-9.8.4. of Division B.



- Solid masonry New definition of solid masonry which includes hollow masonry units where the hollow cells need not be filled with grout.
- Solid masonry unit New definition of solid masonry unit which requires the net solid area to be at least 75% of the gross area.
- Sound transition class New definition of STC for airborne sound attenuation through a direct sound transmission path
- Tapered tread means a tread with non-parallel edges that increases or decreases its run uniformly over its width. (See Note A-1.4.1.2.(1).)



Div A Part 2 Application of Objectives

2.1.1.2.(5)(a) If accessible sleeping rooms or adaptable housing units are provided in dwelling units, row housing, boarding houses, lodging houses or construction camps, such rooms are not exempt from the accessible design requirements,

2.1.1.2.(5)(b)

• The exemption for accessibility in apartments and condominium buildings now cross references Subsection 3.8.2., rather than only Article 3.8.2.27. Clause 3.8.2.1.(1)(b) expands the scope of accessibility (see variances in Section 3.8 below).



Div A Part 3 Functional Statements

3.2.1.1.(1) - F73 & F74

- BCBC 2018 uses "persons with disabilities" as a defined term rather than "a person with a physical or sensory limitation" in the NBC 2015.
- "Circulation in" has been changed to "in".

3.2.1.1.(1) - F75

 New functional statement to minimize obstacles for future modifications to adaptable dwelling units.



Division B – Part 1 General

1.1.3.3. Soil Gas:

(Change to Radon Table now states <u>Required</u> or <u>Not Required</u> for a location)

- 1) Except as provided in Sentence (2), the geographical locations requiring rough-ins for a subfloor depressurization system conforming to Article 9.13.4.3 shall be those areas identified in Table C-4 in Appendix C.
- 2) In addition to those areas identified in Sentence (1), the *authority having jurisdiction* may identify additional geographical locations requiring roughins for a subfloor depressurization system conforming to Article 9.13.4.3. if data obtained by the *authority having jurisdiction* indicates the location is at an elevated risk of the presence of indoor radon levels exceeding Health Canada guidelines.



Division B – Part 1 General

Table 1.3.1.2

Documents Referenced in the Book I (General) of the British Columbia Building Code:

- Changes to various references:
 - Elevating Devices,
 - NAFS
 - Z 240
 - Visible signal devices for Fire Alarm systems



Division C – Part 2 Administrative Provisions

2.2.1.1.(1)

 Administration of the BCBC is pursuant to Section 3 of the Building Act, rather than the NBCC.

2.2.1.2.(1)

• Structural design must be performed by a *registered professional* which is defined in the BCBC to be an engineer or architect.

2.2.2.1.(2)

 NBCC 2015 revised to match the previous BCBC 2012 regarding general information required on drawings.

2.2.2.(2)(e)

 The requirement for site plans to indicate accessible paths of travel from a street to a building has been expanded to include access from a sidewalk, roadway or street, and from exterior accessible parking stalls and exterior passenger loading zones.



Division C – Part 2 Administrative Provisions

Schedule B

Items 1.25, 3.9, 4.10 and 6.10

• Change from "testing and/or confirmation" to "testing, confirmation or both" because the term "and/or" is ambiguous from the legal perspective.

Schedule C-A

Legal Description

 Delete legal description to be consistent with the other Schedules where this was deleted in 2010.

RPR

• Change from registered professional to registered professional of record to be consistent with the other Schedules where RPR was added in 2010



Questions?

Thank you.