Public Reviews for the 2025 National Construction Codes



Webinar #1: Proposed code changes - overview



Webinar #2: Introducing proposed code changes for renovation



Webinar #3: Deep dive into Part 9 energy efficiency and GHG requirements



November 30 @ 12:00 - 1:30 PM ET







Introducing the Renovation Code





INTRODUCING THE RENOVATION CODE

- 1. Where we are in the code process
- 2. Quick Recap of Scope and Principles
- 3. 2023 Fall Public Review Detailed Review
- 4. 2024 Winter Public Review Overview
- 5. How to Submit Comments for Public Review



1. WHERE WE ARE IN THE CODE PROCESS



| Codes Timelines | Committee Deadline | Public Review Opens | Public Review Closes | | |
|------------------------|---|--|-------------------------|--|--|
| Fall 2023 | June 12, 2023 | October 23, 2023 | December 18, 2023 | | |
| Winter 2024 | October 2, 2023 | February 20, 2024 | April 29, 2024 | | |
| Fall 2024 (Ref'd Docs) | June 17, 2024 | June 17, 2024 October 21, 2024 December 1 | | | |
| Code Publication | Planned for December 2025 | | | | |
| P/T Code Adoptions | Planned for 18 months after publication | | | | |



2. SCOPE & PRINCIPLES



WHY?

- Consistency across Canada
- Renovation market is equal or bigger than new construction
- More effective to address renovation

WHEN?

- EE requirements may apply to renovation based on project scope
- Code does not mandate renovations

WHAT?

- Energy efficiency first
- Not all building types
- Not all "alteration" types

WHERE?

New Parts in National Building Code, Energy Code, Plumbing Code

HOW?

• 8 Principles





2. SCOPE & PRINCIPLES







Principle 1:

Close the performance gap between the current code and the existing building stock.

Principle 2:

Maintain or increase the life safety and overall building performance level.

(An alteration cannot make the building worse)

Principle 3:

Avoid negative unintended consequences and unrealistic expectations.

Principle 4:

Ensure that the building is not left in an unsafe state during alteration

•••

2. SCOPE & PRINCIPLES







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Principle 5:

Regulatory measures should be reasonable, practical and effective

Principle 6:

Require flexibility and encourage alterations to existing buildings rather than place an undue burden on the public

Principle 7:

Require flexibility and preserve officially recognized heritage elements

Principle 8:

Complement voluntary programs and other policy tools (e.g. tax credits)

ALTERATION TO EXISTING BUILDINGS

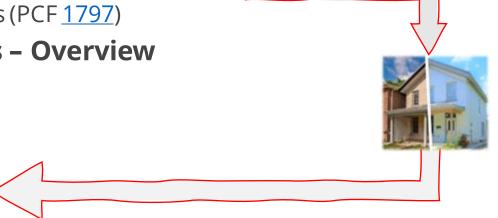


2023 Fall Public Review - General Requirements - Detailed Review

- Division A Application of Part 10 and Exemptions (PCF <u>1812</u>)
- Division A Definitions (PCF <u>1813</u>)
- Division B New Part 10 Scope, Application and Principles (PCF<u>1824</u>)
 - May apply where the extent of the renovation affects one of the technical areas
- National fire Code Protection of Adjacent Buildings (PCF <u>1797</u>)

2024 Winter Public Review – Technical Provisions – Overview

- NBC 9.36
 - Service Water Heating Systems (PCF 1825)
 - HVAC Systems Requirements (PCF 1826)
 - Airtightness Requirements (PCF 1827)
 - Fenestration, Doors and Skylights (PCF 1828)
 - Above-grade Opaque Walls (PCF 1829)
 - Below Grade Building Assemblies (PCF 1850)
- NBC 9.25
 - Consider air barrier below ground when improving airtightness (PCF 2032) (i.e. radon ingress)
- NBC 9.32
 - Consider ventilation when removing old naturally-vented heating appliances (PCF 2033)



DETAILED REVIEW



Application of Part 10 (PCF <u>1812</u>)

- This change is in Division A
- It states:
 - NBC Part 10 applies to the alteration of existing buildings or parts of existing buildings
 - Exempt:
 - farm buildings
 - tents
 - air-supported structures
 - relocatable buildings* (not used/defined in the NBC/NECB)
 - <u>construction camps</u>
 - open-air storage garages,
 - garages or carports
 - heritage buildings or parts of a building formally recognized as having heritage value.



Explanatory Note!

...application of Part 10 does not preclude the application of other Parts ...

... the requirements of all Parts of this Code continue to apply to the alteration of existing buildings...



...buildings to which Part 9 could apply...

2023 FALL PUBLIC REVIEW DETAILED REVIEW



Application of Part 10 (PCF <u>1812</u>)

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- It states:
 - NBC Part 10 applies to the alteration of existing buildings or parts of existing buildings
 - Exempt:
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 - tents
 - air-supported structures
 - relocatable buildings* (not used/defined in the NBC/NECB)

1.1.1.1. Application of this Code

...buil which could

1) Except as provided in Sentence (3), this Code applies to the design, construction and *occupancy* of all new *buildings*, and the *alteration*, reconstruction, demolition, removal, relocation and *occupancy* of all existing *buildings*. (See Note A-1.1.1.(1).)



Explanatory Note!

...application of Part 10 does not preclude the application of other Parts ...

... the requirements of all Parts of this Code continue to apply to the alteration of existing buildings...

DETAILED REVIEW





More Application – Inside the New Part 10 (PCF 1824)

- Section 10.1 General
 - Scope
 - energy performance of existing buildings subject to alteration
 - Application
 - all existing buildings with some exemptions (previous slide / Division A / PCF 1812)
 - "Compliance" (really ... still "Application")
 - alteration of [all] buildings shall comply with **NECB Part 11**, except
 - alteration of existing buildings shall comply with Section 10.9. for (same as 9.36)
 - residential buildings
 - <u>very small business and personal services, mercantile or low-hazard industrial occupancies with combined floor area < 300 m² (excluding residents' parking</u>
 - mix of the residential and non-residential occupancies
 - when determining the application, **existing buildings and their alterations** shall be considered together

DETAILED REVIEW





More Application – Inside the New Part 10 (PCF 1824)

- Section 10.1 General
 - Definitions
 - words in italics are defined in Article 1.4.1.2. Div A (Standard wording for every Part)
 - Performance
 - An alteration to an existing building shall not adversely affect any aspect of building performance.
 - Extensions
 - existing building portion shall comply with new renovation requirements in Part 10
 - extended (new) building portion shall comply with all other Parts (as if new)

DETAILED REVIEW





- Section 10.9.2 Energy Efficiency
 - Definitions
 - 1) The definitions provided in Article 9.36.1.2. shall apply to this Subsection.
 - Replacement Work
 - 1) Where a component is being replaced,

the energy performance level of that component shall not be decreased, unless it can be shown that the building's overall energy performance level will not be decreased as a result of the replacement.

2023 FALL PUBLIC REVIEW DETAILED REVIEW



Defined Terms (PCF 1813)

Existing building means a building that was constructed more than five years before the effective date of this Code.

Heritage building means an existing building that is formally recognized by a federal, provincial, territorial or municipal authority for its heritage value.

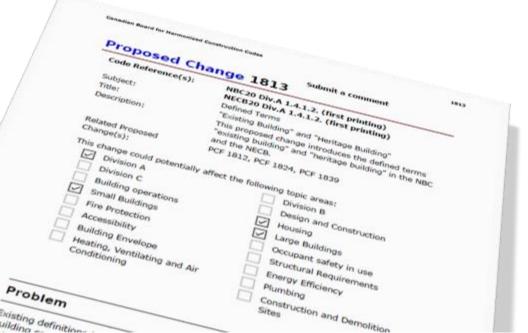
(See Note A-1.4.1.2.(1).)

Explanatory Note

... explains what heritage means ...

... links to:

Standards and Guidelines for the Conservation of Historic Places in Canada



CODE REMINDER



Don't forget: NBC Part 8 also applies to alteration!

8.1.1.1. Scope

1) The scope of this Part shall be as described in Subsection 1.3.3. of Division A.



2) This Part applies to fire safety and the protection of the public during the construction, *alteration* or demolition of every *building*, including any incompleted or abandoned *building*.

3) Fire safety at construction and demolition sites shall conform to Section 5.6. of Division B of the NFC.

8.1.2.1. Application

1) Where a building is undergoing construction, alteration or demolition, measures shall be taken at the building site in conformance with this Code. (See Note A-8.1

| 1 | 8.2. | |
|---|--------|--|
| | 8.2.1. | |
| | 8.2.2. | |
| | 8.2.3. | |
| | 8.2.4. | |
| | 8.2.5. | |
| | | |

| Protection | |
|--|-----|
| Protection of the Public Fencing and Barricades Excavation | |
| EXCAVA+: | |
| Use of Streets or Public Property & Vaste Material | 8-1 |
| Direction of V | 8-2 |
| Vaste Material Vehicular Traffic | 3-3 |
| Direction of Vehicular Traffic | -3 |

DETAILED REVIEW



National Fire Code - Protection of Adjacent Buildings (PCF 1797)

5.6.1.2. Measures shall be taken to mitigate reduce the risk of fire spread to adjacent buildings ... from buildings ... undergoing construction, alteration or demolition.



Note A-5.6.1.2.(1)

As part of fire safety planning, various Mmethods, procedures and materials, if deemed necessary following a risk assessment, can be used to mitigate reduce the risk of fire spread from a construction or demolition site to adjacent buildings and facilities, that are deemed necessary following a risk assessment These measures can range from active to include the presence of trained supervisory staff on site and the monitoring and control of fire hazards. They can also include active or passive systems solutions such as spatial separation, erecting a temporary fire barrier (e.g. fire tarpaulin), using construction methods and materials (e.g. gypsum sheathing), or installing water curtains, using construction methods and materials that include gypsum sheathing, or erecting a temporary fire barrier such as a fire tarpaulin. Materials that may become part of the finished building must conform to the NBC.

☑ SUPPORT

- softer language
- measures may not be required if there is no risk to adjacent property
- deleted "gypsum sheathing"

ALTERATION TO EXISTING BUILDINGS

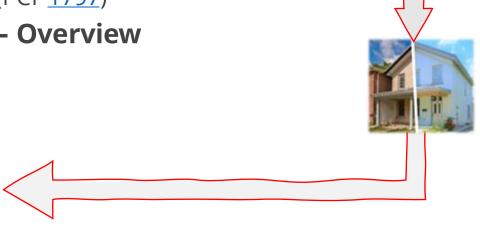


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 - Consider ventilation when removing old naturally-vented heating appliances (PCF 2033)



(FEB 20-APR 29)



Service Water Heating Systems (PCF 1825)

- Maintenance and repair exempt
- General Rule Alterations:
 - Minimum Equipment Efficiency (\$)
 - NBC Table 9.36.4.2.
 - = what is available on the market
 - = what Federal Energy Efficiency Regs require
- **Insulate** hot water pipes that are newly installed and/or where they are accessible (\$)
- Where applicable, storage tanks shall have automatic temperature controls
- Extensions / Additions:
 - Tiered energy and GHG requirements may apply!

| | Service Water Heating Equipm | ent Performance Requirements | | |
|--|--|--|---|--|
| Type of Equipment | Input(1) | Performance Requirement(*) | | |
| | Storage-Type Serv | rice Water Heaters | 8/7 | |
| | < 12 kW (V-> 50 but < 270) | | SL ≤ 35 + (0.20 V _r) (top inlet) | |
| | 312111 (1) 202201321029 | CAN/CSA-C191 | $SL \le 40 + (0.20 \text{ V}_r) \text{ (bottom inlet)}$ | |
| Electric | ≤ 12 kW (V _r > 270 L but ≤ 454 L) | | SL ≤ (0.472 V _r) – 38.5 (top inlet) | |
| | >12 kW | ANSI Z21.10.3/CSA 4.3 or DOE 10 CFR, Part 431, Subpart G, Appendix B | $SL \le (0.472 \text{ V}_s) - 33.5 \text{ (bottom inle}$ $SL \le 0.30 + (102.2 \text{ V}_s)$ | |
| Heat pump water heaters | Storage-Type Service Water Heaters ≤ 12 kW (V ₇ > 50 L but ≤ 270 L) ≤ 12 kW (V ₇ > 270 L but ≤ 454 L) > 12 kW | EF ≥ 2.1 | | |
| ************************************** | ≤ 22 kW and first-hour rating < 68 L | 9940 0 5 per Carrier 2000 2000 2 | UEF ≥ 0.3456 - (0.00053 V _s)(4) | |
| | ≤ 22 kW and first-hour rating | | UEF ≥ 0.5982 - (0.00050 V _s)(4) | |
| Gas-fired(3) | | CAN/CSA-P.3 | UEF ≥ 0.6483 - (0.00045 V _s)(4) | |
| Gas-iiieu | ≤ 22 kW and first-hour rating ≥ 284 L | | UEF ≥ 0.6920 - (0.00034 V _s)(4) | |
| | | | UEF ≥ 0.8107 - (0.00021 V _s)(4) | |
| | > 22 kW | | E ₁ ≥ 90% and SL ≤ 0.84 [(1.25 Q) + (16.57 √V ₁)] | |
| | | | EF ≥ 0.68 - (0.0005 V _r) or UEF ≥ 0.2509 - (0.00032 V _s) | |
| Oil-fired | | | EF ≥ 0.68 - (0.0005 V _r) or UEF ≥ 0.5330 - (0.00042 V _s) | |
| | | | EF ≥ 0.68 - (0.0005 V _r) or UEF ≥ 0.6078 - (0.00042 V _s) | |
| | | | EF ≥ 0.68 - (0.0005 V _t) or UEF ≥ 0.6815 - (0.00037 V _s) | |
| | | | UEF ≥ 0.6740 - (0.00035 V _s) | |
| | > 40.99 KW | | E _t ≥ 80% and SL ≤ (1.25 Q) + (16.57 √V _r) | |
| | | e Water Heaters | 70 V.C 100 - 10 | |
| | flow rate < 6.4 L/min | CAN/CSA-P3 | UEF ≥ 0.86 | |
| Gas-fired | flow rate ≥ 6.4 L/min | VIII I VOITABLE (VIII) | UEF ≥ 0.87 | |
| | | nd input DOE 10 CFR, Part 431, Subpart U/L G, Appendix C E₁ ≥ 94% | E _t ≥ 94% | |
| Oil-fired | ≤ 61.5 kW(9) | B, Appendix E | EF ≥ 0.59 - (0.0005 V _s) | |
| | Other | | E _t ≥ 80% | |
| Electric | | 877 | (6) | |
| Combined space- and water-heating systems (combos) | | CAN/CSA-P.9 | TPF = 0.80 | |

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Heating Ventilating and Air-Conditioning Systems (PCF 1828)

- Exempt (\$)
 - Maintenance and repair
 - Replacement with similar part or component
- General Rule: Minimum Equipment Efficiency (\$)
 - Equipment Efficiency in NBC Table 9.36.3.10.
 - = what is available on the market
 - = what Federal Energy Efficiency Regs already require
- For Additions (like new construction):
 - Seal newly installed ducts/plenums (\$)
 - Tiered energy and GHG requirements may apply!
- For Alterations and Extensions new spaces (previously unconditioned):
 - Size and install according to Sections 9.32. (ventilation) and 9.33 (Heating, A/C) (\$)
 - **Exempt, if** existing HVAC is demonstrated to be sufficient (e.g. CSA F280, modeling)

| | HVAC Equipment Perfo | 36.3.10. ormance Requirements 9.36.3.9.(2) and 9.36.3.10.(1) | | | | |
|--|------------------------------------|--|---|--|--|--|
| Type of Equipment | Heating or Cooling Capacity, kW | Performance Testing Standard | Minimum Performance(1) | | | |
| Air-C | Cooled Unitary Air Conditioners ar | nd Heat Pumps - Electrically Opera | ated | | | |
| | | | SEER = 14.5 | | | |
| Split system | < 19 | CSA C656 | EER = 11.5 | | | |
| | | | HSPF V = 7.1 | | | |
| | | | SEER = 14 | | | |
| Single-package system | < 19 | CSA C656 | EER = 11 | | | |
| | | | HSPF V = 7.0 | | | |
| Heat pumps, split and single-package | ≥ 19 | See Tables 5.2.12.1A to -F | P of Division B of the NECB | | | |
| Air conditioners, all electrical phases, split and single-package | ≥ 19 | See Tables 5.2.12.1A to -P of Division B of the NECB | | | | |
| Sing | le-Package Vertical Air Conditions | ers (SPVAC) and Heat Pumps (SPV | HP) | | | |
| SPVAC and SPVHP in cooling mode | < 19 | CAN/CSA-C746 | EER = 11 | | | |
| SPVAC and SPVHP in heating mode | < 19 | CARCO34-0746 | COP _h ≥ 3.3 | | | |
| SPVAC and SPVHP | ≥ 19 | See Tables 5.2.12.1A to -F | | | | |
| Water | Cooled Unitary Air Conditioners | and Heat Pumps - Electrically Ope | rated | | | |
| Ground-source and water-source heat pumps | | | | | | |
| open loop | < 40 | CAN/CSA-C13958-1 | COP _o ≥ 4.75, COP _h ≥ 3.6 | | | |
| closed loop | 2 40 | CA19G0A-G13230-1 | COP _o ≥ 3.93, COP _h ≥ 3.1 | | | |
| Water-to-water heat pumps | · | | | | | |
| open loop | < 40 | CAN/CSA-C13956-9 | COP _c ≥ 5.60, COP _h ≥ 3.4 | | | |
| closed loop | S 40 | онтекан-013230-2 | COP _o ≥ 4.21, COP _h ≥ 2.8 | | | |
| Internal water-loop heat pumps | < 5 | CAN/CSA.C13956-1 | COP _o ≥ 3.28, COP _h ≥ 4.2 | | | |
| internal water-toop fleat pumps | ≥ 5 and ≤ 40 | UNITEGON-0 13230-1 | COP _c ≥ 3.52, COP _h ≥ 4.2 | | | |
| Water-cooled air conditioners - all | < 19 | ANSI/AHRI 210/240 | COP = 3.54, ICOP = 3.60 | | | |
| types | ≥ 19 | See Tables 5.2.12.1A to -P of Division B of the NECB | | | | |

(FEB 20-APR 29)



Climate Zones 7B and 8

≥ 6000 HDD

Fenestration, doors and skylights (PCF 1826)

- Exempt:
 - Maintenance and repair
- General Rule Alterations:
 - Whole window/door
 - Comply with Article 9.36.2.7.
 - U values/ ER ratings (\$)
 - Where only glazing is being replaced:
 - the higher of
 - selection from Table 9.36.2.7-C or (\$)
 - existing glazing U value (\$)
 - detailed explanatory note
- Wall/window interface shall be airtight (\$)

Climate Zones 4 and 5

≤ 3999 HDD

Description of

Component

non-metallic

Component

Frame

| | metallic | | | | | | | | |
|---------------|--------------------------------|------|-----|------|--------|------|--------|--------|--------|
| Glazing | double | _ | ✓ | _ | _ | _ | _ | _ | _ |
| | triple | ✓ | _ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | argon-filled | _ | < | _ | ✓ | _ | ✓ | _ | ✓ |
| | none | ✓ | _ | _ | _ | _ | _ | _ | _ |
| Low-e coating | number of panes with ≤ 0.10 | _ | ≥ 1 | _ | _ | _ | _ | ≥ 2 | _ |
| | number of panes with ≤ 0.20 | _ | _ | 2 | ≥ 1 | 2 | ≥ 2 | _ | ≥ 2 |
| Conner | size, mm | 12.7 | _ | 12.7 | ≥ 12.7 | 12.7 | ≥ 12.7 | ≥ 12.7 | ≥ 12.7 |
| Spacer | non-metallic | _ | · | _ | _ | _ | _ | _ | _ |

Compliance Options for Site-built Windows and Glazed Portion of Doors Forming Part of Sentence 9.36.2.7.(3)

Compliance Options

Climate Zones 6 and 7A

4000 to 5999 HDD

- Extensions / Additions
 - Tiered requirements may apply for extensions / additions!

Canadian Home Builders' Association

(FEB 20-APR 29)

Airtightness Requirements (PCF 1827)

- General Rule
 - 1) Where the alteration impacts the continuity of the air barrier system or where no continuous air barrier system exists within the extent of the alteration
 - a) <u>discontinuous areas of the air barrier system</u> shall be constructed in conformance with Sentence 9.36.2.9.(1) (\$) or
 - b) the air barrier system shall be tested and achieve an airtightness level of at least [2.5 ACH] (\$)
- No Exceptions!
- Reminder: Extensions/Additions are 'like new construction'
- Detailed Appendix Note
 - air barrier materials can also fulfill other building envelope functions
 - airtightness can negatively affect other building systems (ventilation, heating, cooling)
 - what can happen airtightness is significantly or partially improved (indoor air quality)
 - Reference to CHBA Renovators' Manual





(FEB 20-APR 29)

R-values of walls, attics, floors over unheated space, cathedral ceilings (PCF 1829) and below grade assemblies (PCF 1850)

- Maintenance and repair exempt
- General Rules
 - Safety/Health: where additional insulation is installed follow all Part 9 regs for insulation!
 - **Detailed Explanatory Note**
 - Energy Efficiency: Goal is to increase R values whereever possible
 - Assess according to 9.36.2.2 . (estimate R value)
 - Conform to Table 9.36.2.6 for above grade or Table 9.36.2.8. for below grade assemblies
- Exceptions

Thank you!

"Where the effective thermal resistance cannot be improved to meet the requirements due to construction limitations, structural constraints, loss of space functionality, or other requirements of Part 9, the respective thermal resistance

shall be improved to the extent possible."

Detailed explanatory notes that 'to the extent possible' may mean 'not at all'.

Reference to CHBA Renovators Manual in Appendix (house-as-a-system guidance)



(FEB 20-APR 29)

R-values of walls, attics, floors over unheated space, cathedral ceilings (PCF 1829) and below grade assemblies (PCF 1850)

- Appendix Note on "extent possible"!
 - provide flexibility where required thermal resistance will not be feasible or where it is prevented by
 - existing mechanical and electrical elements not intended to be changed in the alteration,
 - · existing walls or columns and beams obstructing the installation of insulation,
 - stairwells located against the existing exterior wall (and adding insulation might make the stairwell non-compliant with Part 9 requirements or might require significant effort and cost to reconstruct or relocate the staircase),
 - · existing doors framed close to the existing wall are not changed as part of the alteration,
 - very small rooms in old homes, where adding 4 inches of insulation on the inside of walls would make the room unusable (e.g., as a washroom or powder room or even as a bedroom) without substantially reconstructing walls, structural supports or rerouting building services.
 - intent is to
 - encourage increasing thermal resistance as much as possible within these limitations.
 - recognize instances where installation of insulation may not be possible
 - manage risk of undesirable consequences, such as condensation, especially with partial insulation



(FEB 20-APR 29)

Separate, non-energy proposals (PCF 2032, 2033)

- Section 9.32. requiring balanced ventilation
 - When taking out and shutting down old heating systems with cold air return
 - When airtightness is significantly improved
 - Make sure remaining ventilation system is not negatively affected
- Section 9.25. requiring a review of air barrier system below ground
 - When airtightness is significantly improved
 - To consider radon ingress

Recognizes House-as-a-system Concept

How to Enter Public Review Comments

Canadian Home Builders' Association

Suite 500, 141 Laurier Ave W, ON K1P 5J3

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Canadian **Home Builders** Association





Home > Public review of proposed changes to the 2020 National Model Codes

Public review of proposed changes to the 2020 National **Model Codes**

This national public review runs from October 23 to December 18, 2023.

The Canadian Board for Harmonized Construction Codes (CBHCC) invites code users, the Codes community, and the public to participate in the fall 2023 public review of proposed changes to the 2020 editions of the National Model Codes. The proposed changes included in this public review address the following topics in the National Building Code of Canada, the National Fire Code of Canada, the National Energy Code of Canada for Buildings, and the National Plumbing Code of Canada:

- · alterations to existing buildings
- greenhouse gas emissions
- radon
- · airtightness
- · accessibility illumination levels and projection of protruding building elements
- · building envelope thermal bridging and insulation
- · building fire safety
- · climatic loads
- · combustible construction fire protection and safety
- · encapsulated mass timber construction
- · HVAC equipment efficiency
- · large farm buildings
- · hazardous materials and activities
- · plumbing materials and equipment
- fire protection
- · use and egress
- · penetrations
- · prescriptive trade-off path
- · vegetated roof assemblies
- · windows, doors and skylights
- · environmental separation standards
- lighting
- · fenestration thermal characteristics

See the summary of key proposed changes below for more details.

The purpose of this public review is to:

- · provide code users, the Codes community, and the public with a detailed look at proposed technical changes, and
- . seek comment on each proposed technical change as to whether it should be approved, altered or withdrawn.

The public review will close at 11:59 pm PST on December 18, 2023, after which comments will no longer be accepted.

The result of the public review process is a collection of comments on proposed code changes. The comments are sorted and



CHBA PROCESS FOR PUBLIC REVIEW COMMENTS



CHBA communicates Public Review to its members



CHBA National staff reviews the proposed changes and drafts comments



CHBA holds webinar series for members and gathers broad feedback



TRC/CRC-Mgmt Committees and the CHBA Working Group on the Reno Code
 reviews draft comments and gathers provincial HBA feedback

National **staff revises and submits final comments** (Local/Provincial HBAs or individual members may want to submit reinforcing comments)

CHBA's aim is to ensure alignment with all three levels of the Association before submitting comments.

PUBLIC REVIEW COMMENTS



Well-written comments can make a big difference!

- Describe how the proposed change applies to your situation
- Describe what works, what doesn't
- Explain why you can't support the change
- Propose your own modifications, suggest alternative approaches
- Justify your proposed modifications/alternatives
- Support them with evidence, or cost, if possible
- Be concise and precise
- If your comment gets long
 - stick to one comment/idea per paragraph
 - number your comments/ideas/issues, and/or
 - use headings





Go to CBHCC's Public Review Site

Questions?

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