Lunch & Learn

Navigating Product Evaluation Reports

12pm July 17th, 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:

- Canadian Building Regulatory System Overview
- Where do Standards fit in?
- Where do Evaluation Reports fit in?
- Examples
- Resources

Canadian Building Regulatory System

Overview

Government of Canada

National Research Council of Canada

Codes Canada

Canadian Board of Harmonized Construction Codes

Province of British Columbia

Construction Standards and Digital Solutions

Local Government, Municipality or Regional District

Canadian Building Regulatory System

Overview

Government of Canada

Canadian Building Regulatory System

Overview

Government of Canada

National Research Council of Canada

The primary national agency of the Government of Canada dedicated to science and technology research and development.

Canadian Building Regulatory System

Overview

Government of Canada

National Research Council of Canada

Codes Canada

The NRC's Codes Canada group acts as the secretariat providing technical, policy, and administrative support, including publishing the National Model Codes

Canadian Building Regulatory System

Overview

Government of Canada

National Research Council of Canada

Codes Canada

Canadian Board of Harmonized Construction Codes

CBHCC develops the National Model Codes with Provincial and Territorial representation

Canadian Building Regulatory System

Overview

Government of Canada

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Codes Canada

Canadian Board of Harmonized Construction Codes

Province of British Columbia

The Province adopts the NBC, with local adaptations to create the BCBC, enacted through a Ministerial Order as regulation under the Building Act

Canadian Building Regulatory System

Overview

Government of Canada

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Construction Standards and Digital Solutions

Construction Standards manages code development, code access, bulletins, technical guides etc.

Canadian Building Regulatory System

Overview

Government of Canada

National Research Council of Canada

Codes Canada

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Province of British Columbia

Construction Standards and Digital Solutions

Local Government, Municipality or Regional District

Establish jurisdiction for administration and enforcement of building codes.

Canadian Building Regulatory System

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Canadian Building Regulatory System

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Province of British Columbia

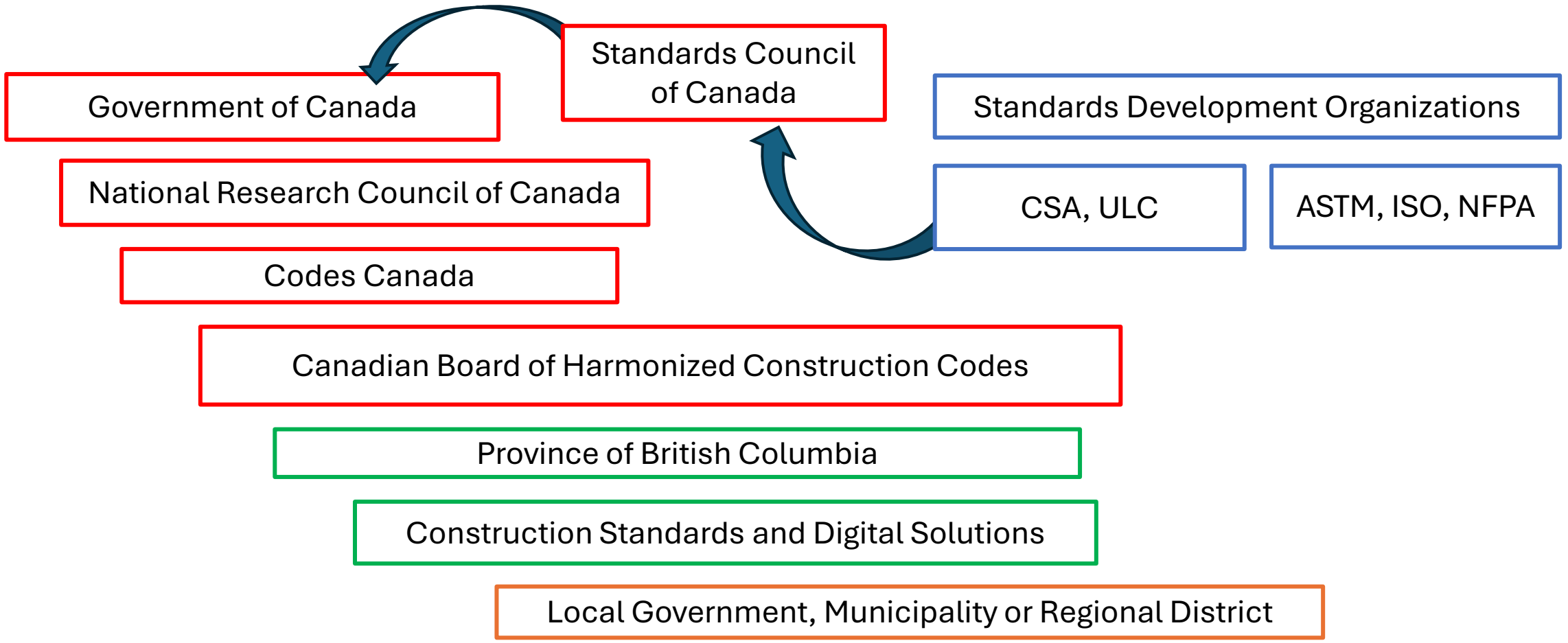
Construction Standards and Digital Solutions

Local Government, Municipality or Regional District

How do Standards fit in?

Canadian Building Regulatory System

Overview



Canadian Building Regulatory System

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How do Evaluation Reports fit in?

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Construction Standards and Digital Solutions

Local Government, Municipality or Regional District

Product/Materials Evaluators

Canadian Construction Materials Centre

Others

Testers/Certifiers

Canadian Building Regulatory System

Overview

Government of Canada

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Construction Standards and Digital Solutions

Local Government, Municipality or Regional District

Where do Building Officials fit in?

Canadian Building Regulatory System

Overview

Government of Canada

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Province of British Columbia

Construction Standards and Digital Solutions

Local Government, Municipality or Regional District

YOU

Where do Building Officials fit in?

Canadian Building Regulatory System

Overview

Canadian Building Regulatory System

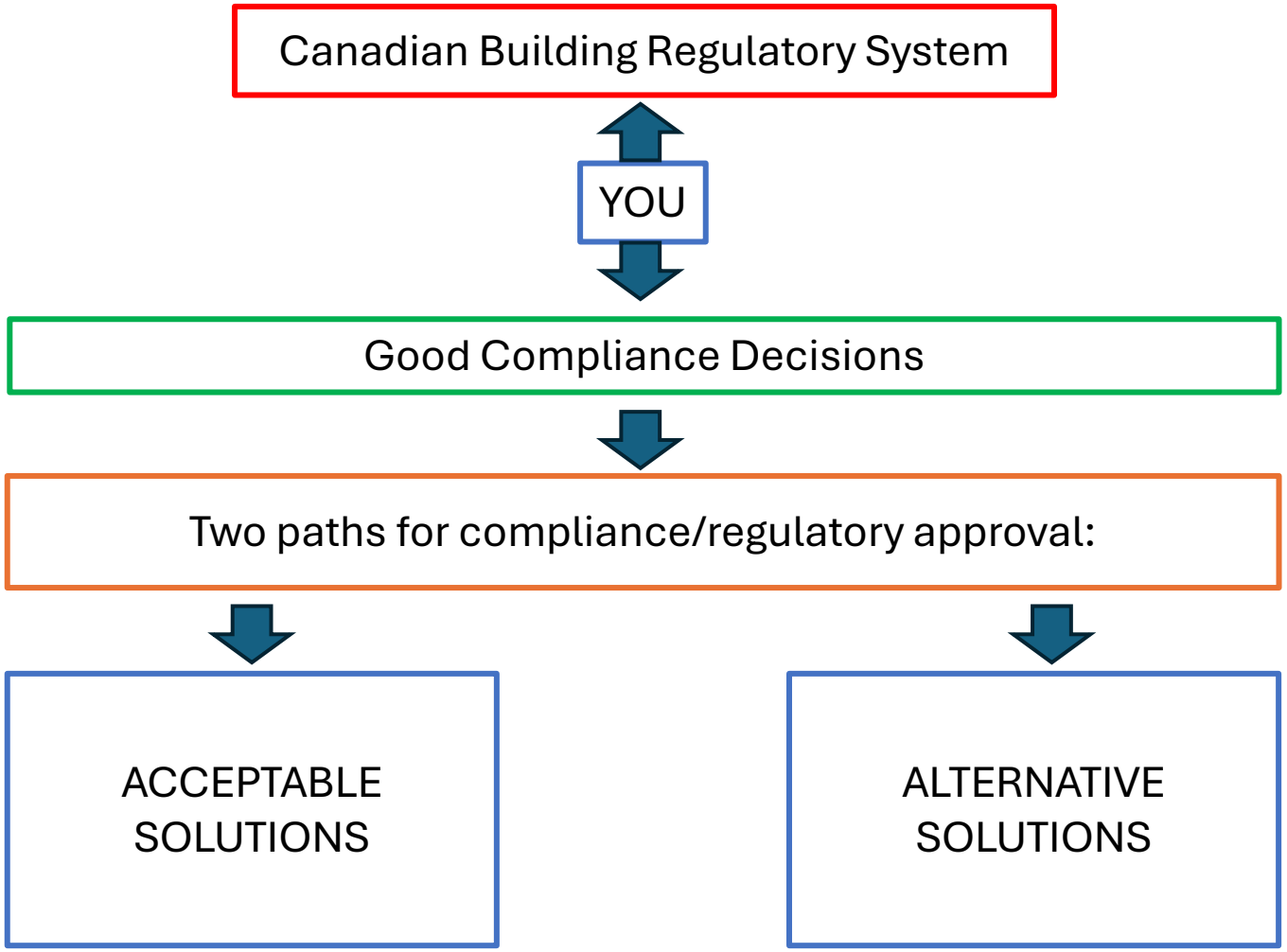
YOU

List of Demands:

- Safe
- Fair
- Transparent
- Innovative
- Democratic
- Representative

Canadian Building Regulatory System

Compliance Decisions



Canadian Building Regulatory System

Compliance Decisions

Section 1.2. Compliance

1.2.1. Compliance with this Code

1.2.1.1. Compliance with this Code

1) Compliance with this Code shall be achieved by

a) complying with the applicable acceptable solutions in Division B (see Note A-1.2.1.1.(1)(a)), or

b) except as required by Sentence (3), using alternative solutions, accepted by the *authority having jurisdiction* under Section 2.3 of Division C, that will achieve at least the minimum level of performance required by Division B in the areas defined by the objectives and functional statements attributed to the applicable acceptable solutions (see Note A-1.2.1.1.(1)(b)).

Canadian Building Regulatory System

Compliance Decisions

A-1.2.1.1.(1)(a) Code Compliance via Acceptable Solutions. If a building design (e.g. material, component, assembly or system) can be shown to meet all provisions of the applicable acceptable solutions in Division B (e.g. it complies with the applicable provisions of a referenced standard), it is deemed to have

satisfied the objectives and functional statements linked to those provisions and thus to have complied with that part of the Code. In fact, if it can be determined that a design meets all the applicable acceptable solutions in Division B, there is no need to consult the objectives and functional statements in Division A to determine its compliance.

Canadian Building Regulatory System

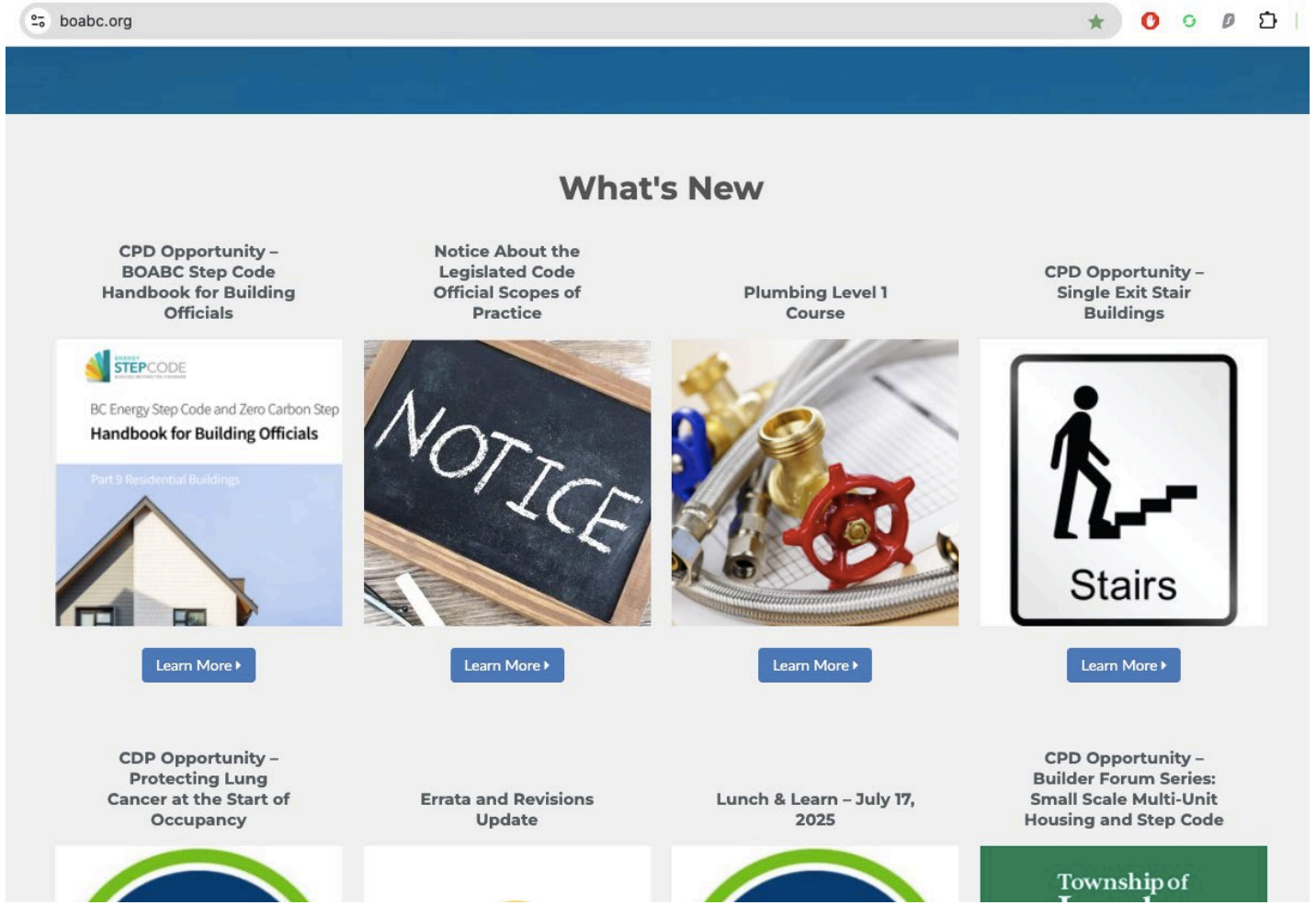
Compliance Decisions

A-1.2.1.1.(1)(b) Code Compliance via Alternative Solutions. Where a design differs from the acceptable solutions in Division B, then it should be treated as an "alternative solution." A proponent of an alternative solution must demonstrate that the alternative solution addresses the same issues as the applicable acceptable solutions in Division B and their attributed objectives and functional statements. However, because the objectives and functional statements are entirely qualitative, demonstrating compliance with them in isolation is not possible. Therefore, Clause 1.2.1.1.(1)(b) identifies the principle that Division B establishes the quantitative performance targets that alternative solutions must meet. In many cases, these targets are not defined very precisely by the acceptable solutions-certainly far less precisely than would be the case with a true performance code, which would have quantitative performance targets and prescribed methods of performance measurement for all aspects of building performance. Nevertheless, Clause 1.2.1.1.(1)(b) makes it clear that an effort must be made to demonstrate that an alternative solution will perform as well as a design that would satisfy the applicable acceptable solutions in Division B-not "well enough" but "as well as."

In this sense, it is Division B that defines the boundaries between acceptable risks and the "unacceptable" risks referred to in the statements of the Code's objectives, i.e. the risk remaining once the applicable acceptable solutions in Division B have been implemented represents the residual level of risk deemed to be acceptable by the broad base of Canadians who have taken part in the consensus process used to develop the Code.

Canadian Building Regulatory System

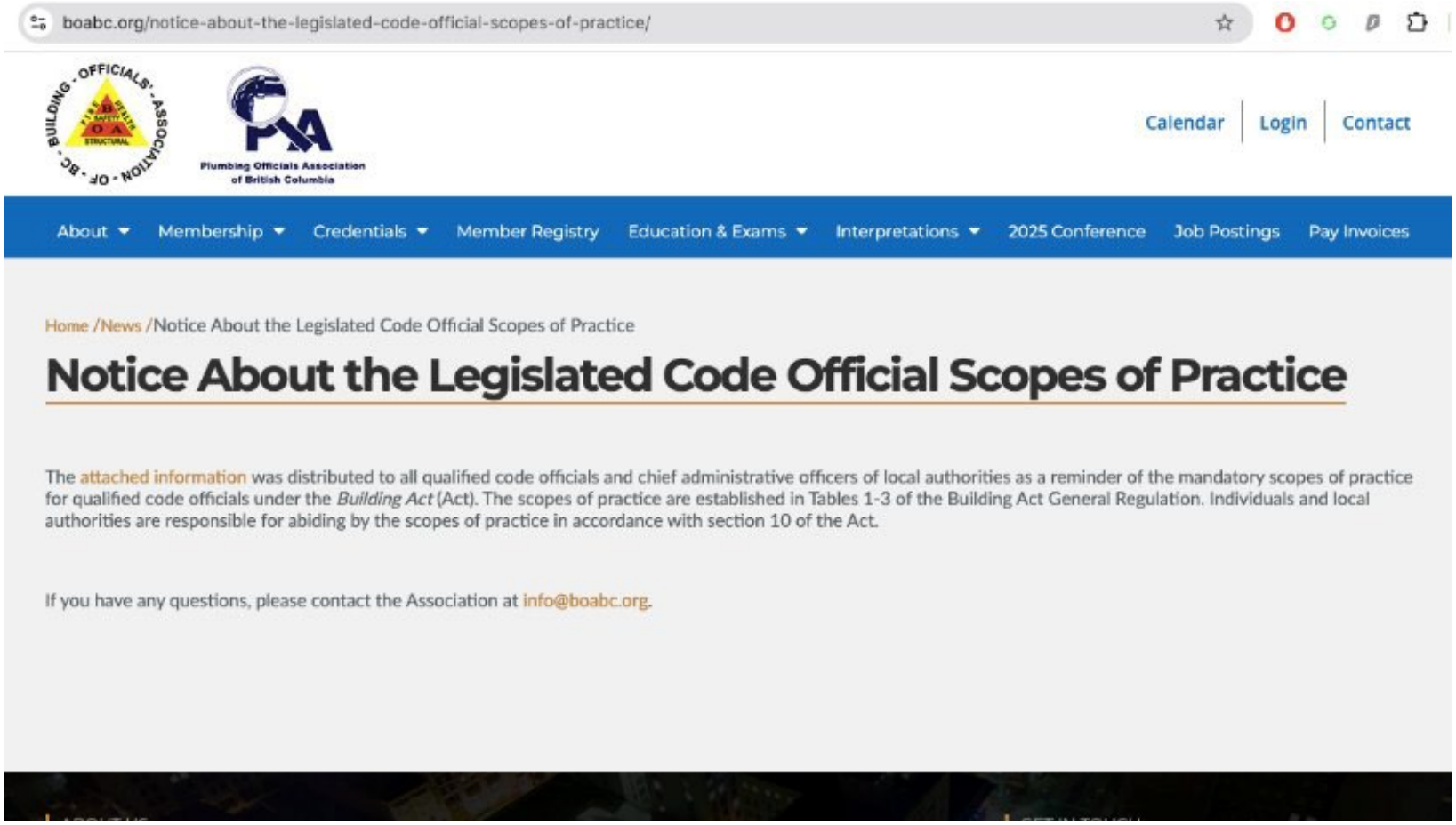
Compliance Decisions



https://boabc.org/wp-content/uploads/2025/07/Code-Official-Scopes-of-Practice-Notice-July-2025.pdf

Canadian Building Regulatory System

Compliance Decisions



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Canadian Building Regulatory System

Alternative Solutions

https://boabc.org/wp-content/uploads/2024/06/Alternative-Solutions-Peer-Review-Ryce-and-Harmsworth.pdf

Canadian Building Regulatory System

Codes Overview

National Building Code	Model Codes (no force) Developed by CBHBC Published by NRC through Codes Canada
Provincial Building Code	Adopted by Province or Territory, with local variances such as; [B] 9.23.13. (early adoption) Low A2, Group D Administered by Construction Standards and Digital Solutions
Local Enforcement	AHJ Approvals Building Bylaw Local Government or Regional District

Canadian Building Regulatory System

Codes Overview

Government of Canada

National Research Council of Canada

Codes Canada

Canadian Board of Harmonized Construction Codes

Province of British Columbia

Construction Standards and Digital Solutions

Local Government, Municipality or Regional District

YOU

Canadian Building Regulatory System

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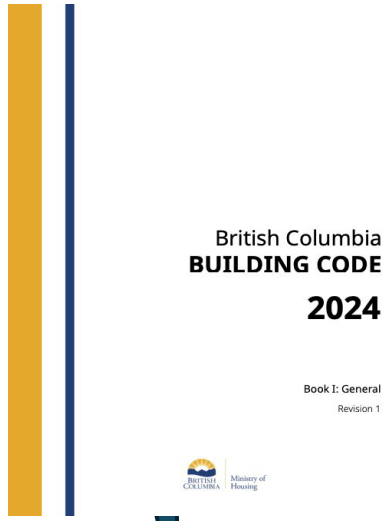
Construction Standards and Digital Solutions

Local Government, Municipality or Regional District

YOU



Canadian Building Regulatory System

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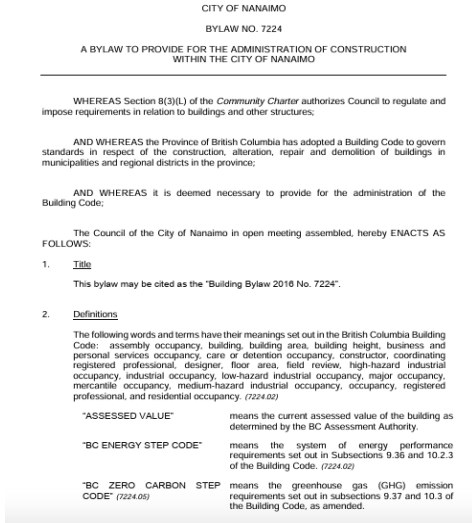
YOU



CITY OF NANAIMO

BYLAW NO. 7224

A BYLAW TO PROVIDE FOR THE ADMINISTRATION OF CONSTRUCTION WITHIN THE CITY OF NANAIMO

WHEREAS Section 8(3)(L) of the *Community Charter* authorizes Council to regulate and impose requirements in relation to buildings and other structures;

AND WHEREAS the Province of British Columbia has adopted a Building Code to govern standards in respect of the construction, alteration, repair and demolition of buildings in municipalities and regional districts in the province;

AND WHEREAS it is deemed necessary to provide for the administration of the Building Code;

The Council of the City of Nanaimo in open meeting assembled, hereby ENACTS AS FOLLOWS:

1. Title

This bylaw may be cited as the "Building Bylaw 2016 No. 7224".

2. Definitions

The following words and terms have their meanings set out in the British Columbia Building Code: assembly occupancy, building, building area, building height, business and personal services occupancy, care or detention occupancy, constructor, coordinating registered professional, designer, floor area, field review, high-hazard industrial occupancy, industrial occupancy, low-hazard industrial occupancy, major occupancy, mercantile occupancy, medium-hazard industrial occupancy, occupancy, registered professional, and residential occupancy. *(7224.02)*

"ASSESSED VALUE"	means the current assessed value of the building as determined by the BC Assessment Authority.
"BC ENERGY STEP CODE"	means the system of energy performance requirements set out in Subsections 9.36 and 10.2.3 of the Building Code. *(7224.02)*
"BC ZERO CARBON STEP CODE" *(7224.05)*	means the greenhouse gas (GHG) emission requirements set out in subsections 9.37 and 10.3 of the Building Code, as amended.

Canadian Building Regulatory System

What about Standards?

Government of Canada

National Research Council of Canada

Codes Canada

Canadian Board of Harmonized Construction Codes

Province of British Columbia

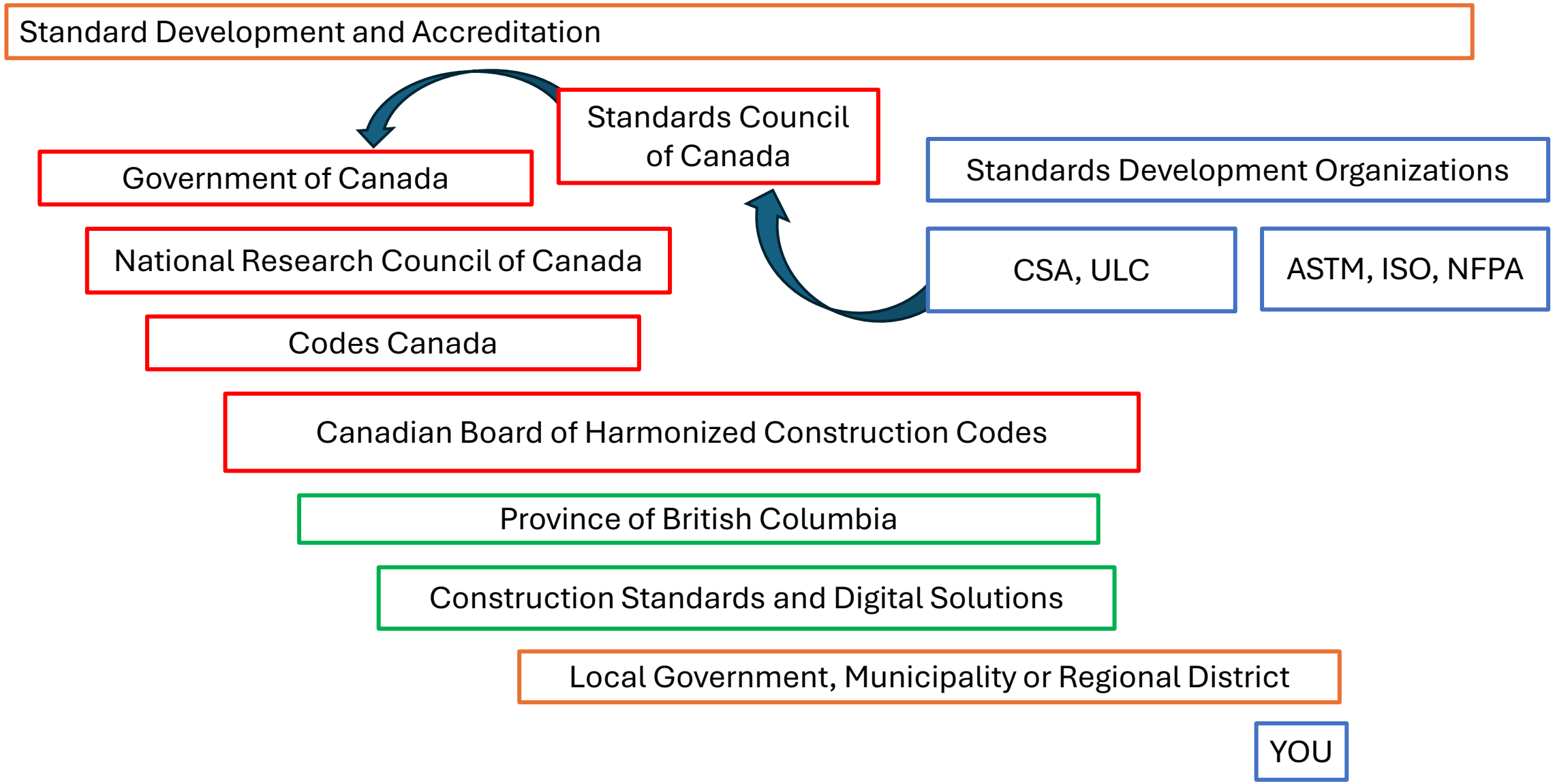
Construction Standards and Digital Solutions

Local Government, Municipality or Regional District

YOU

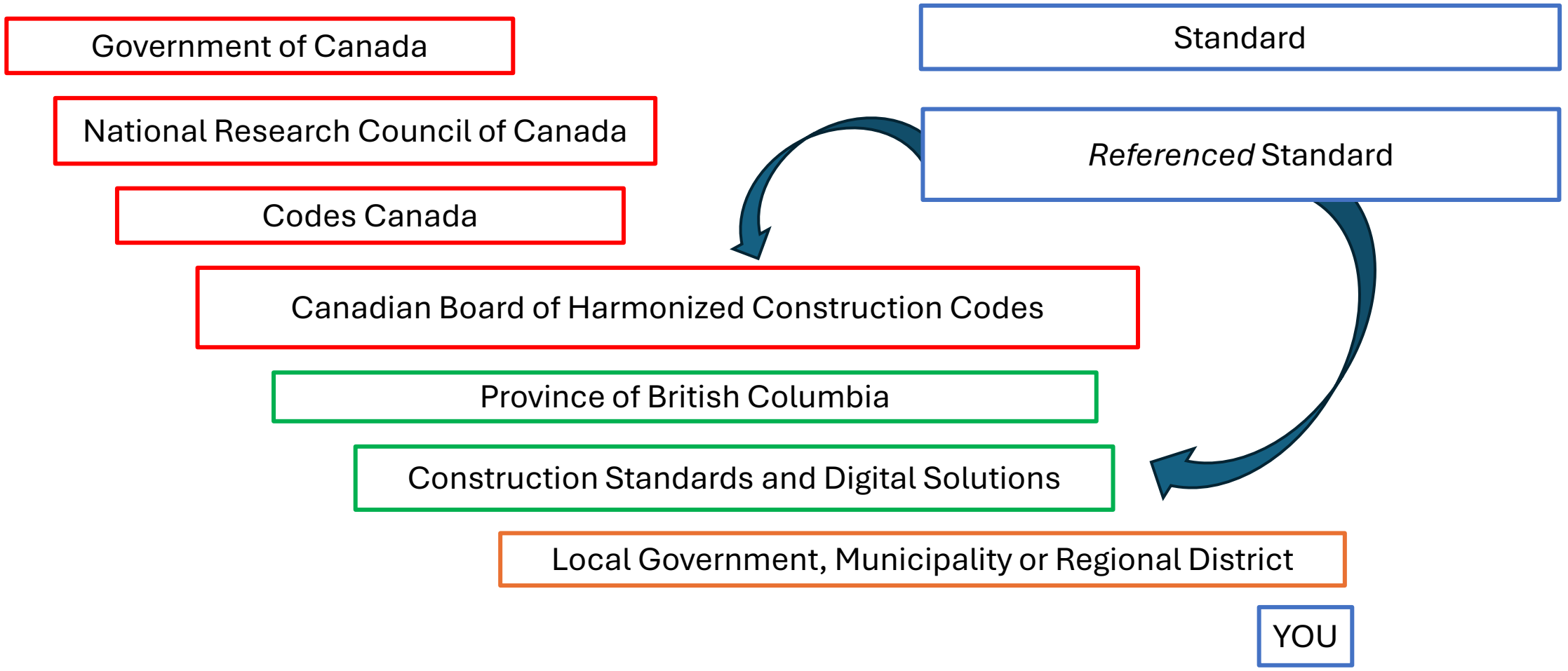
What about Standards?

Standards


Standard Development and Accreditation
Standards Council of Canada
Government of Canada
Standards Development Organizations
National Research Council of Canada
CSA, ULC
ASTM, ISO, NFPA
Codes Canada
Canadian Board of Harmonized Construction Codes
Province of British Columbia
Construction Standards and Digital Solutions
Local Government, Municipality or Regional District
YOU

Standards

Voluntary and Reference Standards



Standards

Standards in the Code

9.25.2.2. Insulation Materials

1) Except as required in Sentence (2), thermal insulation shall conform to the requirements of

a) ASTM C726, "Standard Specification for Mineral Wool Roof Insulation Board"
b) CAN/CGSB-51.25-M, "Thermal Insulation, Phenolic, Faced"
c) CGSB 51-GP-27M, "Thermal Insulation, Polystyrene, Loose Fill"
d) CAN/ULC-S701.1, "Standard for Thermal Insulation, Polystyrene Boards"

e) CAN/ULC-S702.1, "Standard for Mineral Fibre Thermal Insulation for Buildings, Part 1: Material Specification,"
f) CAN/ULC-S703, "Standard for Cellulose Fibre Insulation (CFI) for Buildings"
g) CAN/ULC-S704.1, "Standard for Thermal Insulation, Polyurethane and Polyisocyanurate, Boards, Faced,"
h) CAN/ULC-S705.1, "Standard for Thermal Insulation – Spray Applied Rigid Polyurethane Foam, Medium Density – Material Specification" or
i) CAN/ULC-S706.1, "Standard for Wood Fibre Insulating Boards for Buildings."

Section 1.3. Referenced Documents and Organizations

1.3.1. Referenced Documents

1.3.1.1. Effective Date

1) Unless otherwise specified herein, the documents referenced in this Code shall include all amendments, revisions, reaffirmations, reapprovals, addenda and supplements effective to 15 July 2019.

1.3.1.2. Applicable Editions

1) Where documents are referenced in this Code, they shall be the editions designated in Table 1.3.1.2.

Table 1.3.1.2.
Documents Referenced in Book I (General) of the British Columbia Building Code (1) (2)
Forming Part of Sentence 1.3.1.2.(1)

Issuing Agency	Document Number (3)	Title of Document	Code Reference
AAMA	501-05	Methods of Test for Exterior Walls	A-5.9.3.
AAMA	501.1-05	Standard Test Method for Water Penetration of Windows, Curtain Walls and Doors Using Dynamic Pressure	A-5.9.3.
AAMA	501.2-09	Quality Assurance and Diagnostic Water Leakage Field Check of Installed Storefronts, Curtain Walls, and Sloped Glazing Systems	A-5.9.3.
AAMA	501.4-09	Recommended Static Test Method for Evaluating Curtain Wall and Storefront Systems Subjected to Seismic and Wind-Induced Inter-Story Drifts	A-5.9.3.
AAMA	501.5-07	Test Method for Thermal Cycling of Exterior Walls	A-5.9.3. A-5.9.3.3.(1)
AAMA	501.6-09	Recommended Dynamic Test Method for Determining the Seismic Drift Causing Glass Fallout from a Wall System	A-4.1.8.18.(14) and (15) A-5.9.3.
AAMA	1304-02	Voluntary Specification for Forced Entry Resistance of Side-Hinged Door Systems	9.7.5.2.(2)
ACGIH	28th Edition	Industrial Ventilation: A Manual of Recommended Practice for Design	6.2.1.1.(1) A-6.3.1.5.
ACI	355.2-19	Qualification of Post-Installed Mechanical Anchors in Concrete (ACI 355.2-19) and Commentary	4.1.8.18.(7)

Standards

Standards in the Code

Table 1.3.1.2. (continued)

Issuing Agency	Document Number (3)	Title of Document	Code Reference
ULC	CAN/ULC-S702.1-14	Standard for Mineral Fibre Thermal Insulation for Buildings, Part 1: Material Specification	3.1.6.3.(4) Table 5.9.1.1. A-5.9.1.1.(1) 9.10.9.8.(3) 9.10.3.1.(3) Table 9.23.17.2.-A 9.25.2.2.(1) Table A-9.36.2.4.(1)-D

https://scc-ccn.ca/

Canadian Building Regulatory System

Standards Labelling

Comfortbatt®
Thermal Batt Insulation

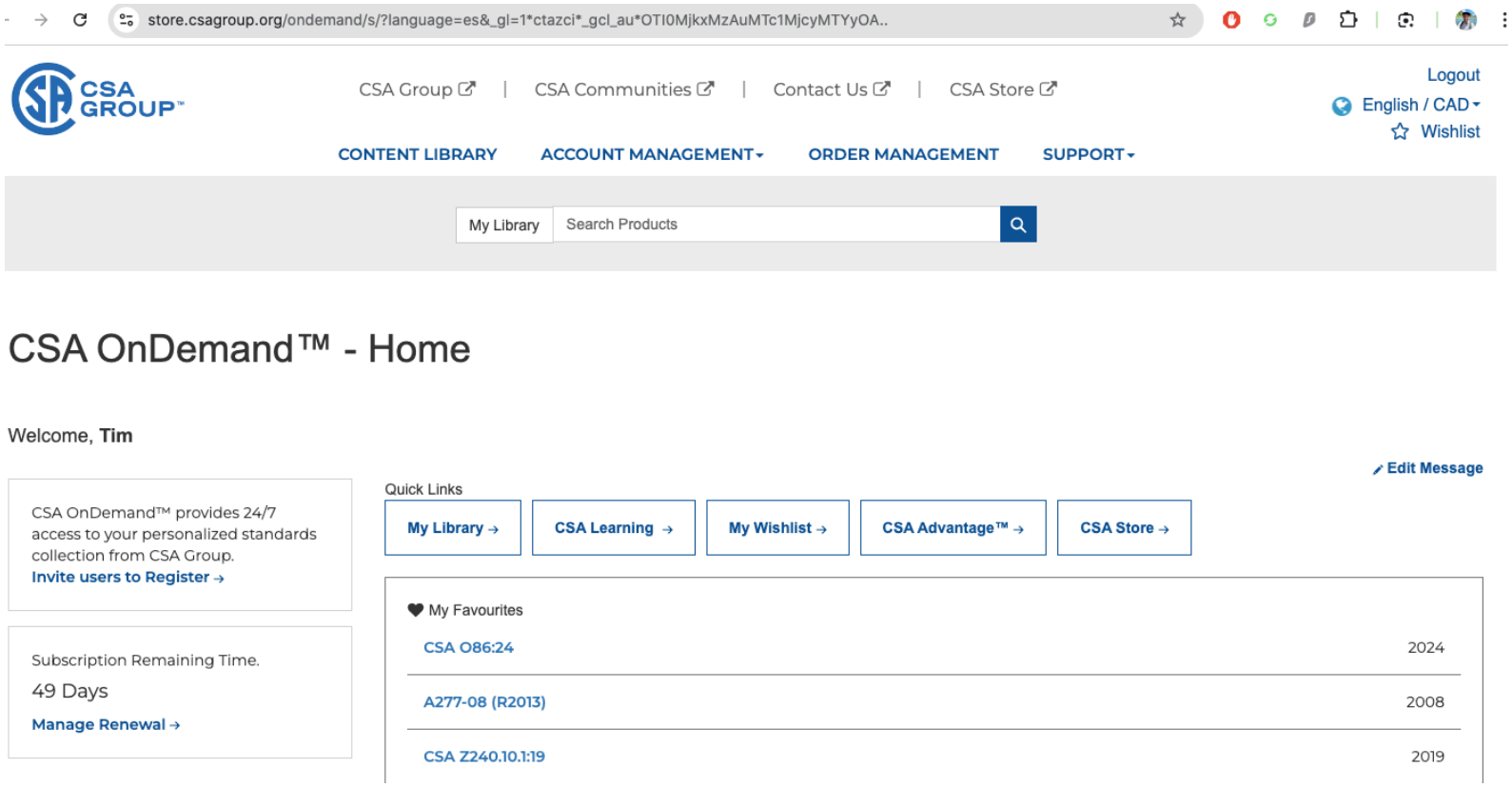
Technical Data Sheet
Batt Insulation 07210*
Blanket Insulation 07 21 16**

ROCKWOOL Comfortbatt® is a stone wool batt insulation designed for thermal resistance in wood and steel framing.

	Performance	Test Standard
Compliance	Mineral Fibre Thermal Insulation for Buildings, Type 1 Compliant	CAN/ULC S702
Reaction to Fire	Flame Spread Rating = 0; Smoke Developed Classification = 0 Determination of Non-combustibility of Building Materials - Non-combustible	CAN/ULC S102 CAN/ULC S114
Density	> 2 lbs/ft³ (>32 kg/m³)	ASTM C167
Thermal Resistance	Wood Stud / Steel Stud R14 (RSI 2.46) - 3.5" thick (89 mm) / R14 (RSI 2.47) - 3.5" thick (89 mm) R22 (RSI 3.87) - 5.5" thick (140 mm) / R22.5 (RSI 3.96) - 6" thick (152 mm) R24 (RSI 4.23) - 5.5" thick (140 mm) / R24 (RSI 4.23) - 6" thick (152 mm) R28 (RSI 4.93) - 7.25" thick (184 mm) / R32 (RSI 5.37) - 8" thick (203 mm) R32 (RSI 5.64) - 8" thick (203 mm)	ASTM C518
Corrosion Resistance	Corrosiveness to Steel - Passed	ASTM C665
Reaction to Moisture	Water Vapor Sorption - 0.05 vol% Water Vapor Transmission (3.5 in. thickness evaluated), Desiccant Method - 42 perm (2404 ng/Pa.s.m²) Determination of Fungi Resistance - Passed	ASTM C1104 ASTM E96 ASTM C1338
Dimensions	Wood Stud 16" (406 mm) on centre: 15.25" x 47" (387 mm x1194 mm) Wood Stud 24" (610 mm) on centre: 23" x 47" (584 mm x 1194 mm) Steel Stud 16" (406 mm) on centre: 16.25" x 48" (413 mm x 1219 mm) Steel Stud 24" (610 mm) on centre: 24.25" x 48" (616 mm x 1219 mm)	

Canadian Building Regulatory System

Finding Standards



Canadian Building Regulatory System

What about Innovative Products?

Government of Canada

National Research Council of Canada

Codes Canada

Canadian Board of Harmonized Construction Codes

Province of British Columbia

Construction Standards and Digital Solutions

Local Government, Municipality or Regional District

YOU

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YOU

Product/Materials Evaluators

Canadian Construction Materials Centre

Others

Testers/Certifiers

Innovative Products

Approval Process

New (simple) Innovative Product

Can be tested to an existing *referenced* Standard

Testing Laboratory, Certification

Acceptable Solution

Cannot be tested to an existing *referenced* Standard (ie non-standard)

"Evaluation" against the intent of code

Alternative Solution

Innovative Products

Innovative Products Pathways

Testing Laboratory, Certifiers	"Evaluations"
Intertek CSA QAI Laboratories UL Solutions CCMC ICC-ES SGS Canada ...and more.	CCMC ICC-ES QAI Laboratories ...and more?

Innovative Products

Evaluation Services

Canadian Construction Materials Centre
(CCMC)

Operated by the NRC

Issues "Evaluation Reports"

Direct support for Building Officials

Stakeholder engagement through Canadian Commission on Construction Materials Evaluation

Innovative Products

Evaluation Services

International Code Council – Evaluation Services (ICC-ES)

- U.S. based non-profit LLC
- Internationally represented, more recently in Canada
- Issues "Evaluation Service Reports" (ESRs)
- Direct support for Building Officials
- Transparent, consensus committee involvement

Innovative Products

Evaluation Reports - Examples

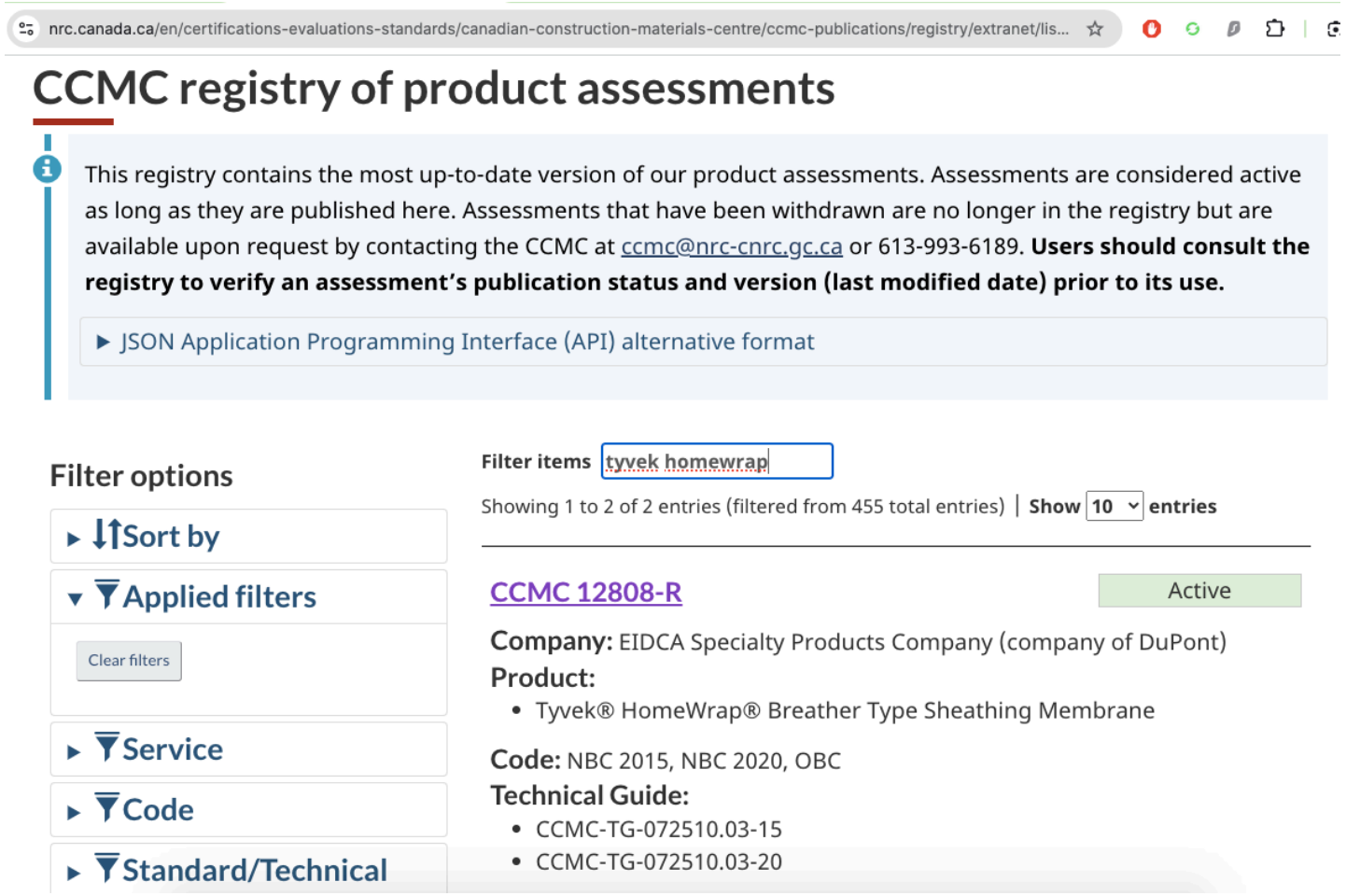
CCMC – Tyvek HomeWrap

CCMC – Zip R-Sheathing

ICC-ES – Zip R-Sheathing

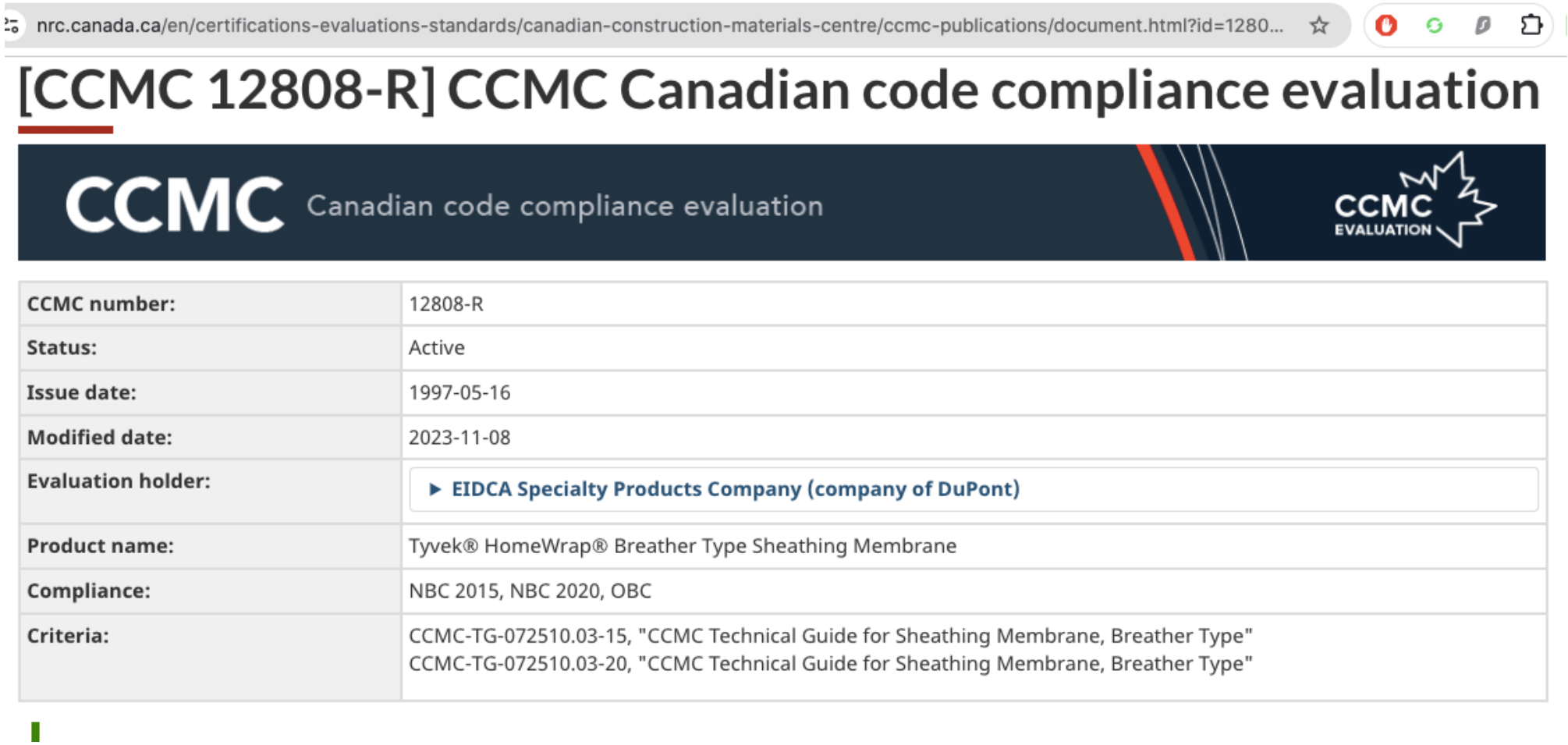
Innovative Products

Tyvek HomeWrap – CCMC Evaluation Report



Innovative Products

Tyvek HomeWrap – CCMC Evaluation Report



nrc.canada.ca/en/certifications-evaluations-standards/canadian-construction-materials-centre/ccmc-publications/document.html?id=1280...

[CCMC 12808-R] CCMC Canadian code compliance evaluation

CCMC Canadian code compliance evaluation

CCMC EVALUATION

CCMC number:	12808-R
Status:	Active
Issue date:	1997-05-16
Modified date:	2023-11-08
Evaluation holder:	▶ **EIDCA Specialty Products Company (company of DuPont)**
Product name:	Tyvek® HomeWrap® Breather Type Sheathing Membrane
Compliance:	NBC 2015, NBC 2020, OBC
Criteria:	CCMC-TG-072510.03-15, "CCMC Technical Guide for Sheathing Membrane, Breather Type" CCMC-TG-072510.03-20, "CCMC Technical Guide for Sheathing Membrane, Breather Type"

Innovative Products

Tyvek HomeWrap – CCMC Evaluation Report

nrc.canada.ca/en/certifications-evaluations-standards/canadian-construction-materials-centre/ccmc-publications/document.html?id=1280...

[CCMC 12808-R] CCMC Canadian code compliance evaluation

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Innovative Products

Tyvek HomeWrap – CCMC Evaluation Report

In most jurisdictions this document is sufficient evidence for approval by Canadian authorities.

Learn more about CCMC recognition Look for the trusted CCMC mark on products to verify compliance.

Expand/Collapse all View in PDF

▸ Compliance opinion

▸ Product information

▸ Conditions and limitations

▸ Technical information

▸ Administrative information

From: National Research Council Canada

Date modified: 2024-02-29

Innovative Products

Tyvek HomeWrap – CCMC Evaluation Report

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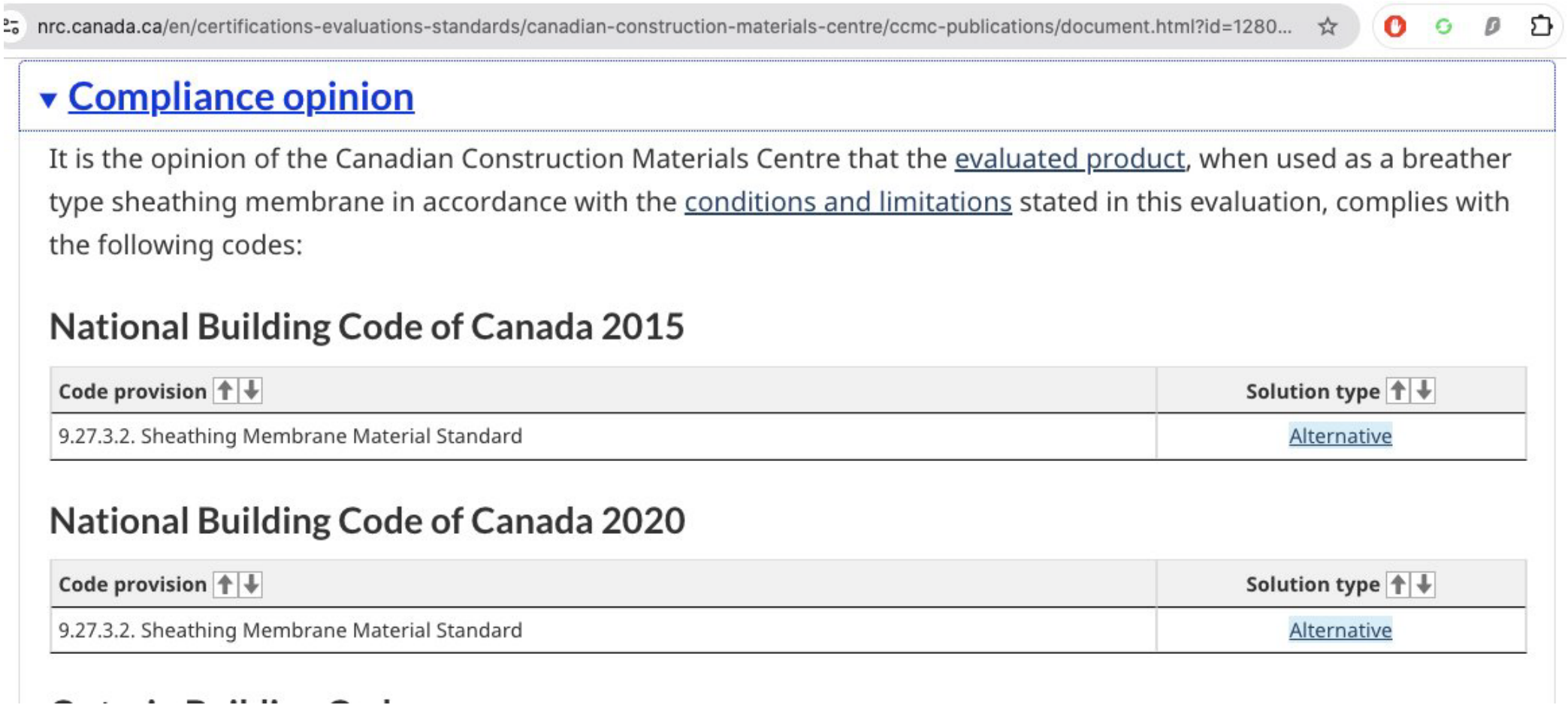
From: National Research Council Canada

Date modified: 2024-02-29

Innovative Products

Tyvek HomeWrap – CCMC Evaluation Report



Innovative Products

Tyvek HomeWrap – CCMC Evaluation Report

9.27.3.2. Sheathing Membrane Material Standard

1) Sheathing membranes shall conform to the performance requirements of CAN/CGSB-51.32-M, "Sheathing, Membrane, Breather Type."

Innovative Products

Tyvek HomeWrap – CCMC Evaluation Report

The above opinion(s) is/are based on the evaluation by the CCMC of technical evidence provided by the evaluation holder, and is bound by the stated conditions and limitations. For the benefit of the user, a summary of the technical information that forms the basis of this evaluation has been included.

Innovative Products

Tyvek HomeWrap – CCMC Evaluation Report

nrc.canada.ca/en/certifications-evaluations-standards/canadian-construction-materials-centre/ccmc-publications/document.html?id=1280...

Product information

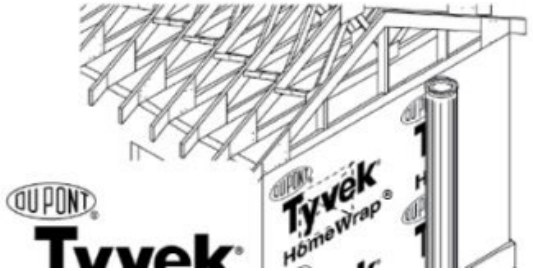
Product name

Tyvek® HomeWrap® Breather Type Sheathing Membrane

Product description

The product is a white, spun-bonded olefin material that is made by combining continuous fibres of high-density polyethylene into a sheet using a heat and pressure process. The material allows to resist the passage of bulk moisture while maintaining a high degree of moisture vapour permeability.

The product is 0.15 mm thick and is available in rolls ranging in widths from 0.91 m to 2.90 m and lengths from 30.5 m to 60.9 m. The roll material is applied over the exterior sheathing material so that it forms a continuous envelope under the cladding system, around the entire building. The Figure 1 illustrates the application of the product.



Innovative Products

Tyvek HomeWrap – CCMC Evaluation Report

Figure 1. Installation of Tyvek® HomeWrap® Breather Type Sheathing Membrane

Manufacturing plant

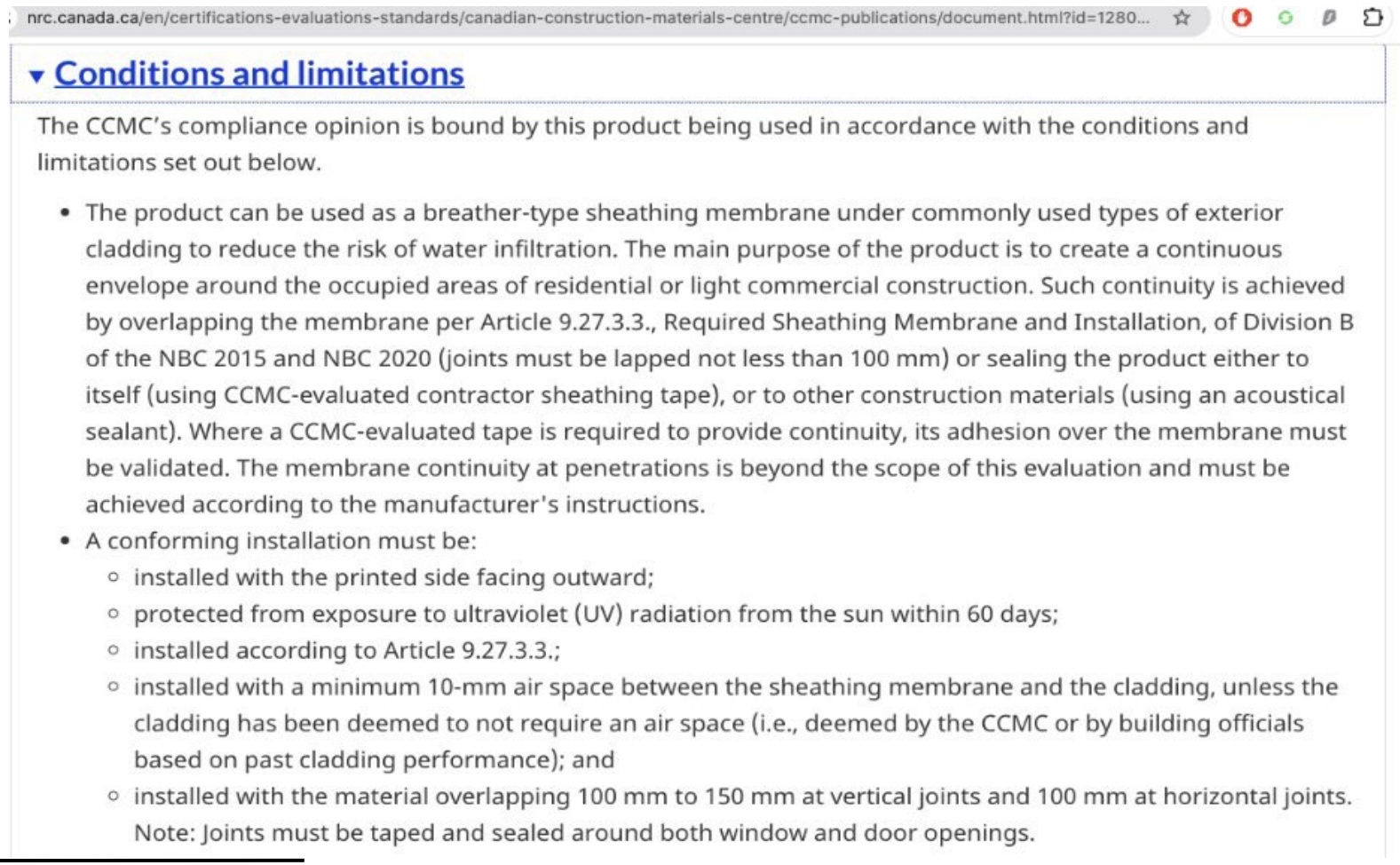
This evaluation is valid only for products produced at the following plant:

Product name	Manufacturing plant
	Richmond, VA, US
Tyvek® HomeWrap® Breather Type Sheathing Membrane	✓

✓ Indicates that the product from this manufacturing facility has been evaluated by the CCMC

Innovative Products

Tyvek HomeWrap – CCMC Evaluation Report



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Conditions and limitations

The CCMC's compliance opinion is bound by this product being used in accordance with the conditions and limitations set out below.

- The product can be used as a breather-type sheathing membrane under commonly used types of exterior cladding to reduce the risk of water infiltration. The main purpose of the product is to create a continuous envelope around the occupied areas of residential or light commercial construction. Such continuity is achieved by overlapping the membrane per Article 9.27.3.3., Required Sheathing Membrane and Installation, of Division B of the NBC 2015 and NBC 2020 (joints must be lapped not less than 100 mm) or sealing the product either to itself (using CCMC-evaluated contractor sheathing tape), or to other construction materials (using an acoustical sealant). Where a CCMC-evaluated tape is required to provide continuity, its adhesion over the membrane must be validated. The membrane continuity at penetrations is beyond the scope of this evaluation and must be achieved according to the manufacturer's instructions.
- A conforming installation must be:
  - installed with the printed side facing outward;
  - protected from exposure to ultraviolet (UV) radiation from the sun within 60 days;
  - installed according to Article 9.27.3.3.;
  - installed with a minimum 10-mm air space between the sheathing membrane and the cladding, unless the cladding has been deemed to not require an air space (i.e., deemed by the CCMC or by building officials based on past cladding performance); and
  - installed with the material overlapping 100 mm to 150 mm at vertical joints and 100 mm at horizontal joints. Note: Joints must be taped and sealed around both window and door openings.

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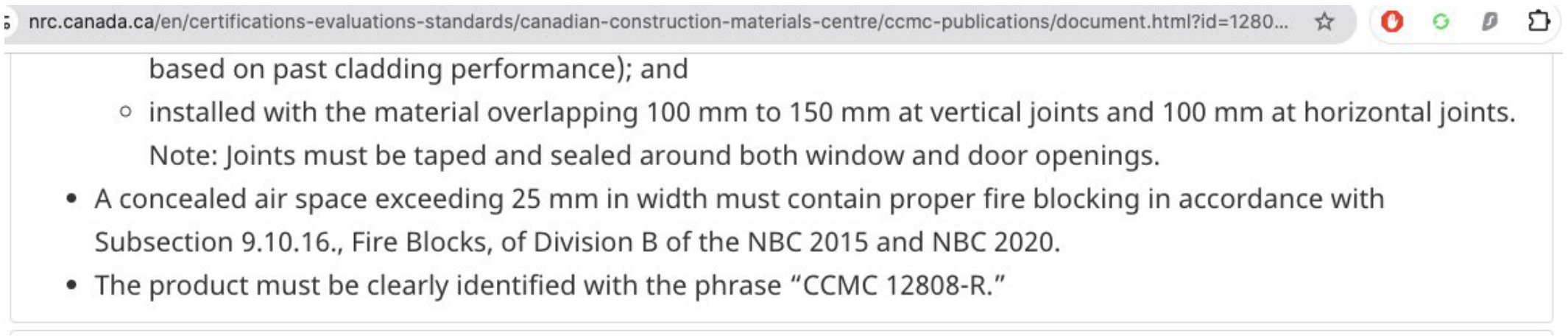
Tyvek HomeWrap – CCMC Evaluation Report



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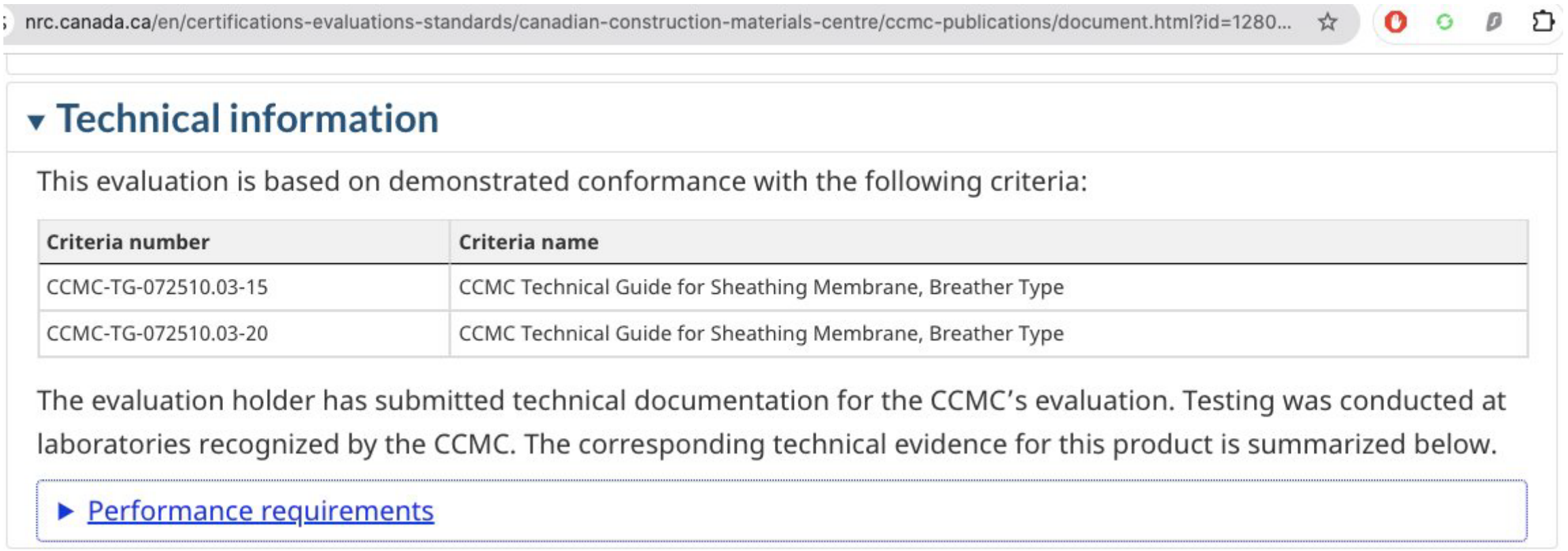
Tyvek HomeWrap – CCMC Evaluation Report



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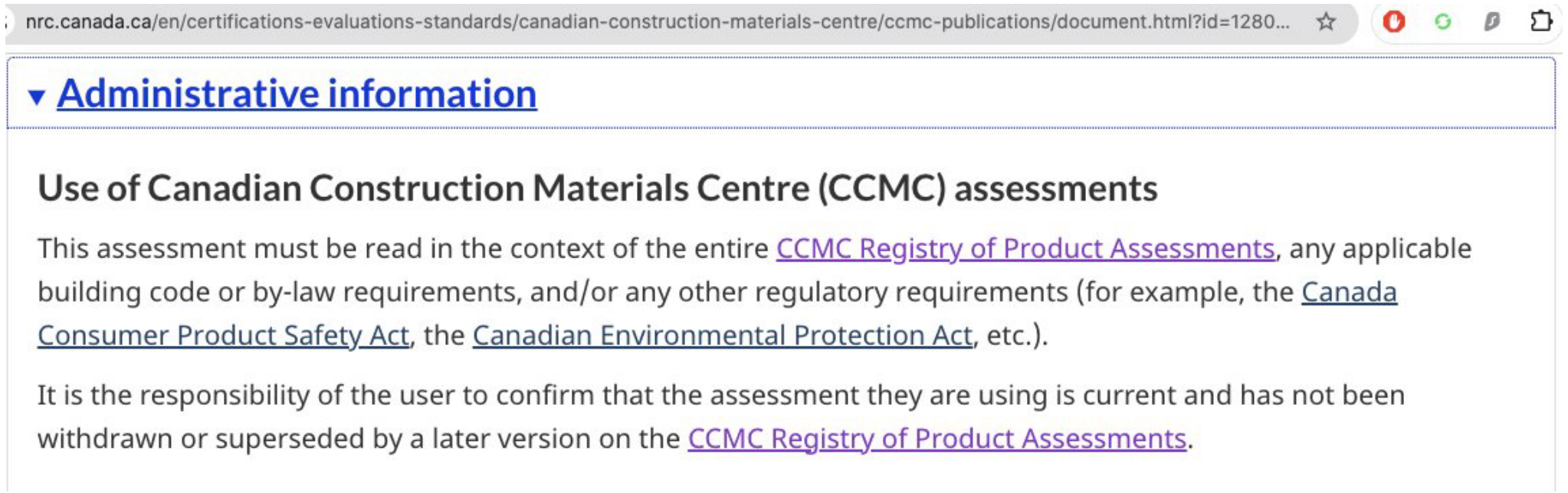
Tyvek HomeWrap – CCMC Evaluation Report



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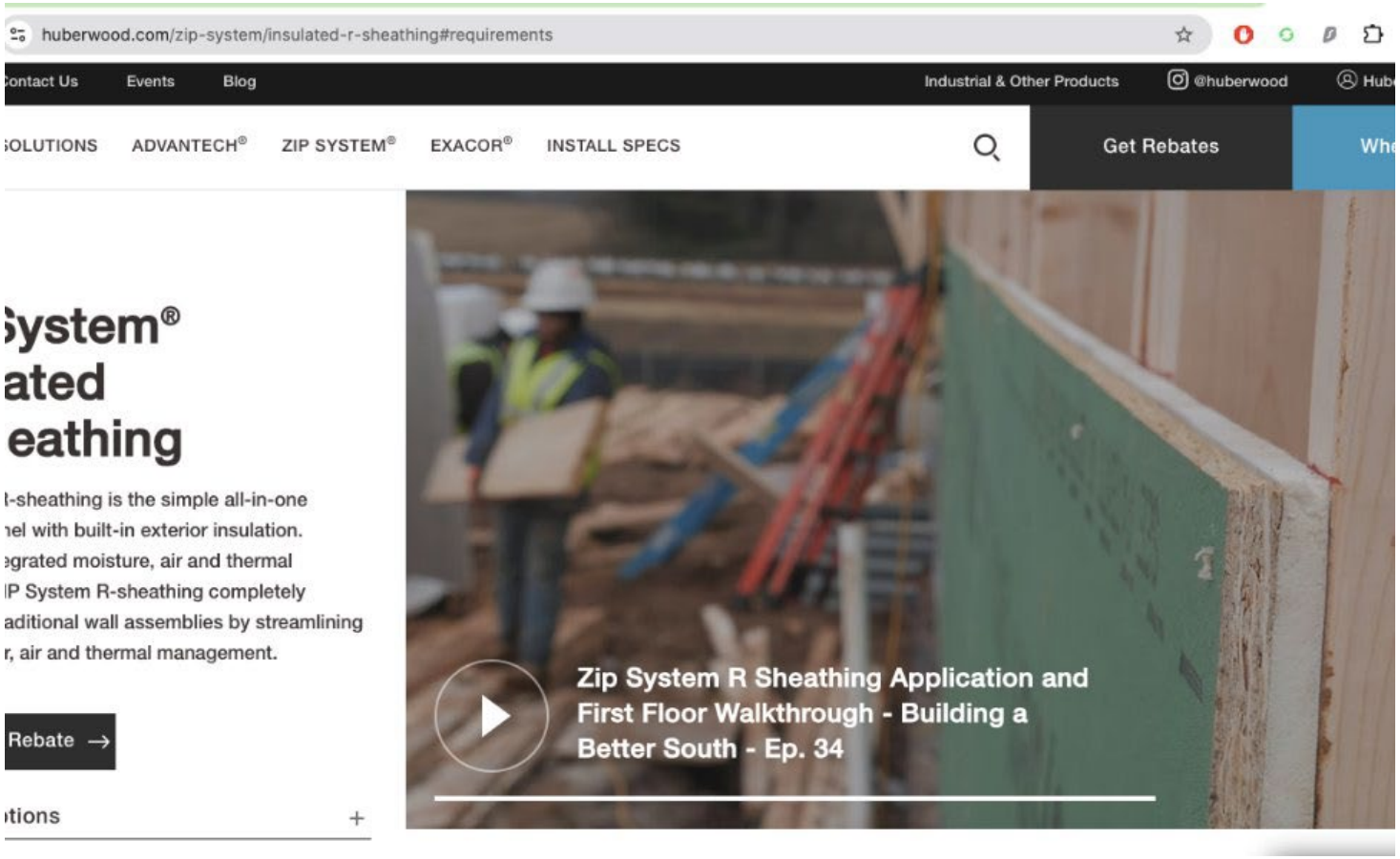
Zip R-Sheathing – CCMC Evaluation Report



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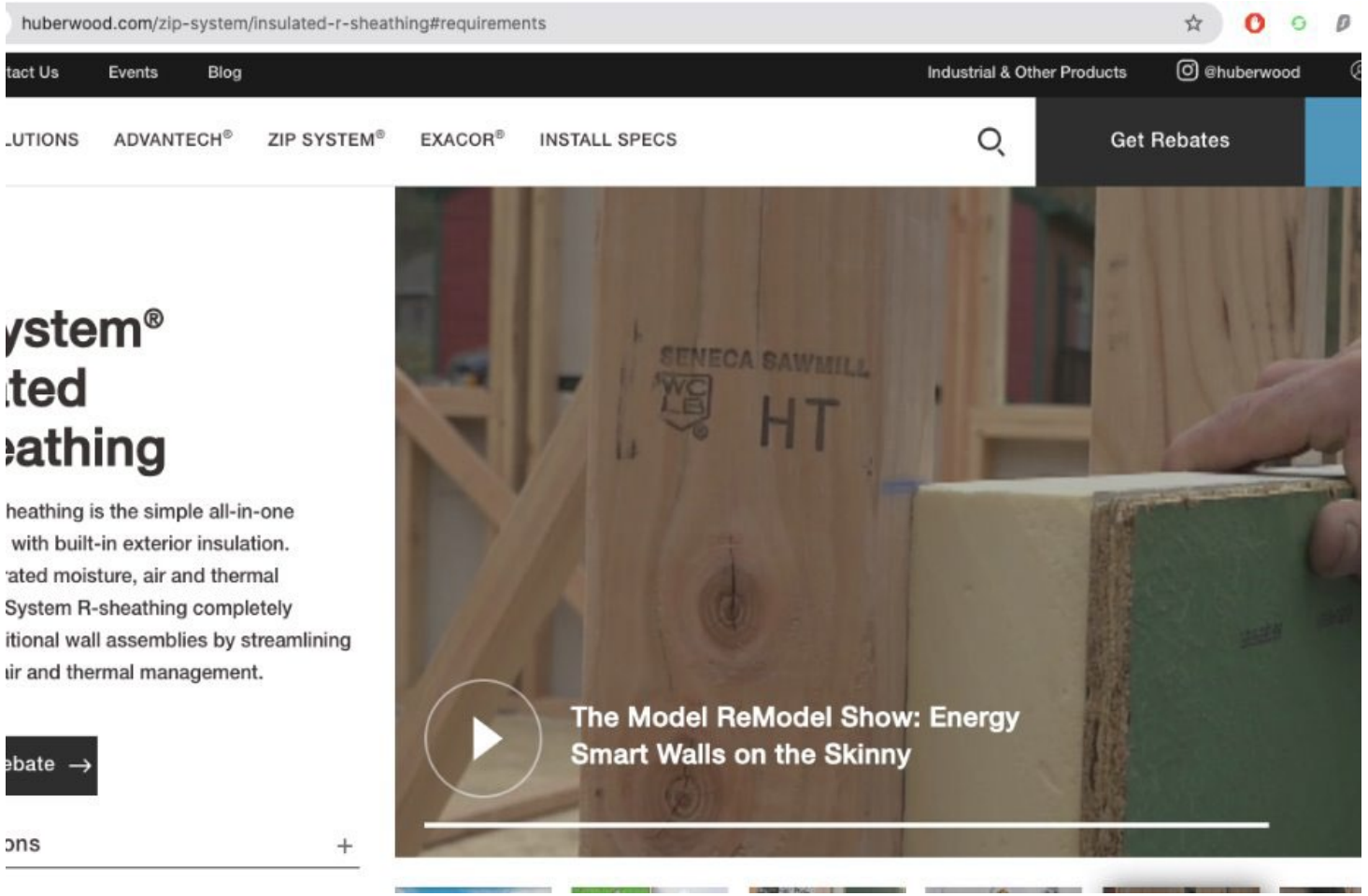
Zip R-Sheathing – CCMC Evaluation Report



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Zip R-Sheathing – CCMC Evaluation Report

CCMC 14075-R

Active

Company: Huber Engineered Woods LLC

Product:

- ZIP System® R-Sheathing

Code: NBC 2015

Technical Guide:

- CCMC-TG-061613.01-15

MasterFormat®:

- **06 16 00**
- **06 16 26**
- **09 28 00**

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Zip R-Sheathing – CCMC Evaluation Report

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[CCMC 14075-R] CCMC Canadian code compliance evaluation

CCMC Canadian code compliance evaluation

CCMC EVALUATION

CCMC number:	14075-R
Status:	Active
Issue date:	2017-11-16
Modified date:	2025-02-06
Evaluation holder:	▶ **Huber Engineered Woods LLC**
Product name:	ZIP System® R-Sheathing
Compliance:	NBC 2015
Criteria:	CCMC-TG-061613.01-15, "CCMC Technical Guide for Insulating Wood Sheathing in Shearwall applications"

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Zip R-Sheathing – CCMC Evaluation Report

Compliance opinion

It is the opinion of the Canadian Construction Materials Centre that the evaluated product, when used as insulating wood sheathing panels in lumber stud braced wall panels in accordance with the conditions and limitations stated in this evaluation, complies with the following code:

National Building Code of Canada 2015

Code provision	Solution type
4.3.1.1. Design Basis for Wood	Alternative
9.23.13. Bracing to Resist Lateral Loads Due to Wind and Earthquake	Alternative
9.23.17.2. Thickness, Rating and Material Standards	Acceptable
9.25.2.2. Insulation Materials	Acceptable

The above opinion(s) is/are based on the evaluation by the CCMC of technical evidence provided by the evaluation holder, and is bound by the stated conditions and limitations. For the benefit of the user, a summary of the technical information that forms the basis of this evaluation has been included.

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Zip R-Sheathing – CCMC Evaluation Report

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Product name

ZIP System® R-Sheathing

Product description

This evaluation addresses the performance of Huber Engineered Woods LLC's proprietary ZIP System® R-Sheathing as insulating wood sheathing panels in lumber stud braced wall panel applications to resist lateral loads due to wind or earthquake.

Evaluation scope

This proprietary insulating sheathing results in the nail's head being offset a distance from the lumber stud. This leads to a reduction in the lateral resistance of the braced wall. This evaluation provides proprietary design values for high wind and seismic loadings in accordance with Part 4, Structural Design, and alternative solutions for Part 9, Housing and Small Buildings, of Division B of the NBC 2015.

Product

ZIP System® R-Sheathing is a panel product that consists of an 11-mm (7/16-in.) OSB structural sheathing bonded to a sheathing membrane on one side and to a rigid foam insulation material on the other. It is installed with the foam insulation facing the studs; therefore, the nail heads are offset a distance from the lumber stud, separated by the wood-based sheathing and the thickness of the foam insulation. Figure 1 shows a typical installation of ZIP System® R-Sheathing. Note that this evaluation only covers the use of this product as insulating wood sheathing panels; its use for a sheathing membrane function is covered in CCMC 14019-R.

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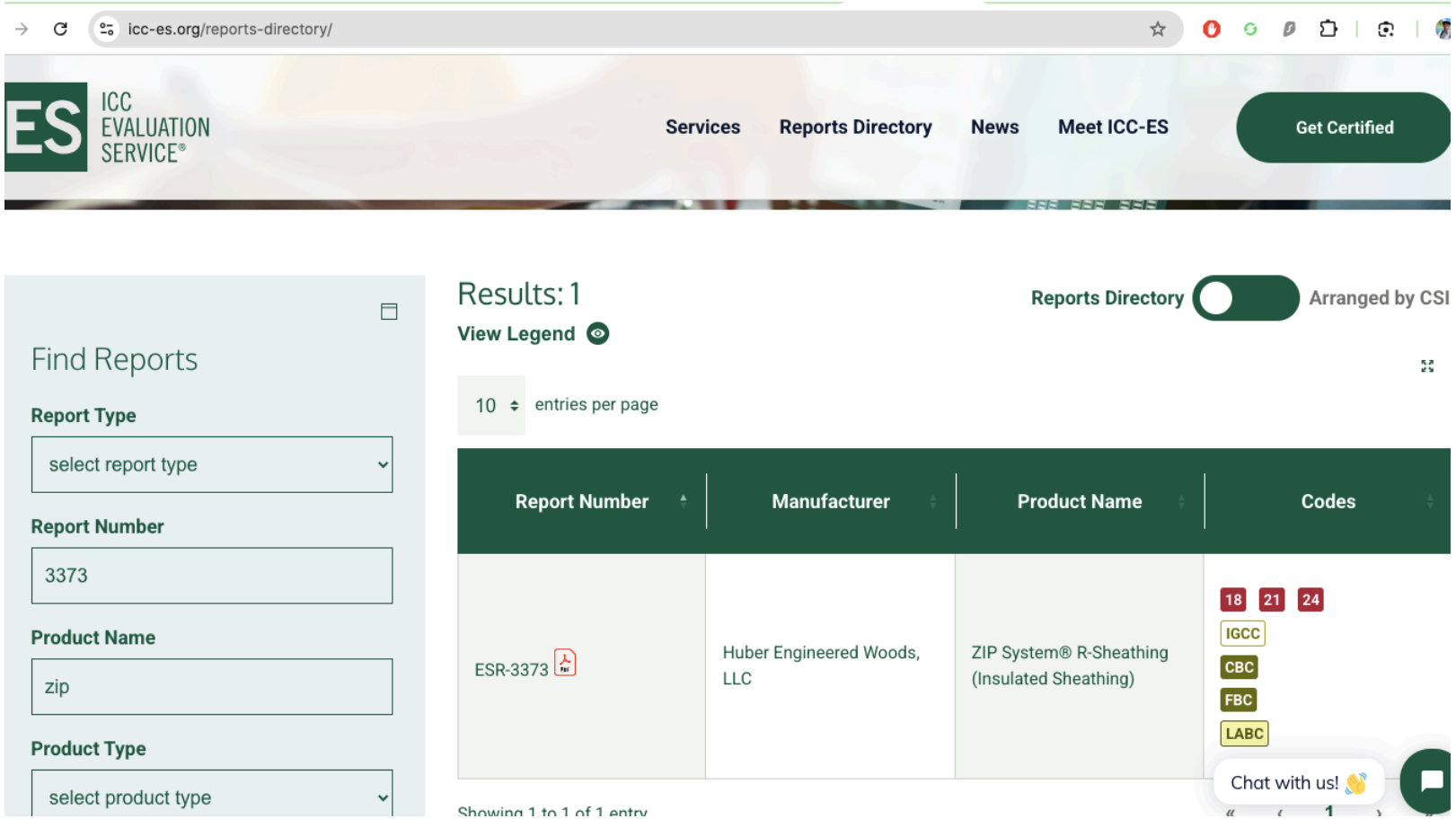
Zip R-Sheathing – ICC-ES Evaluation Report



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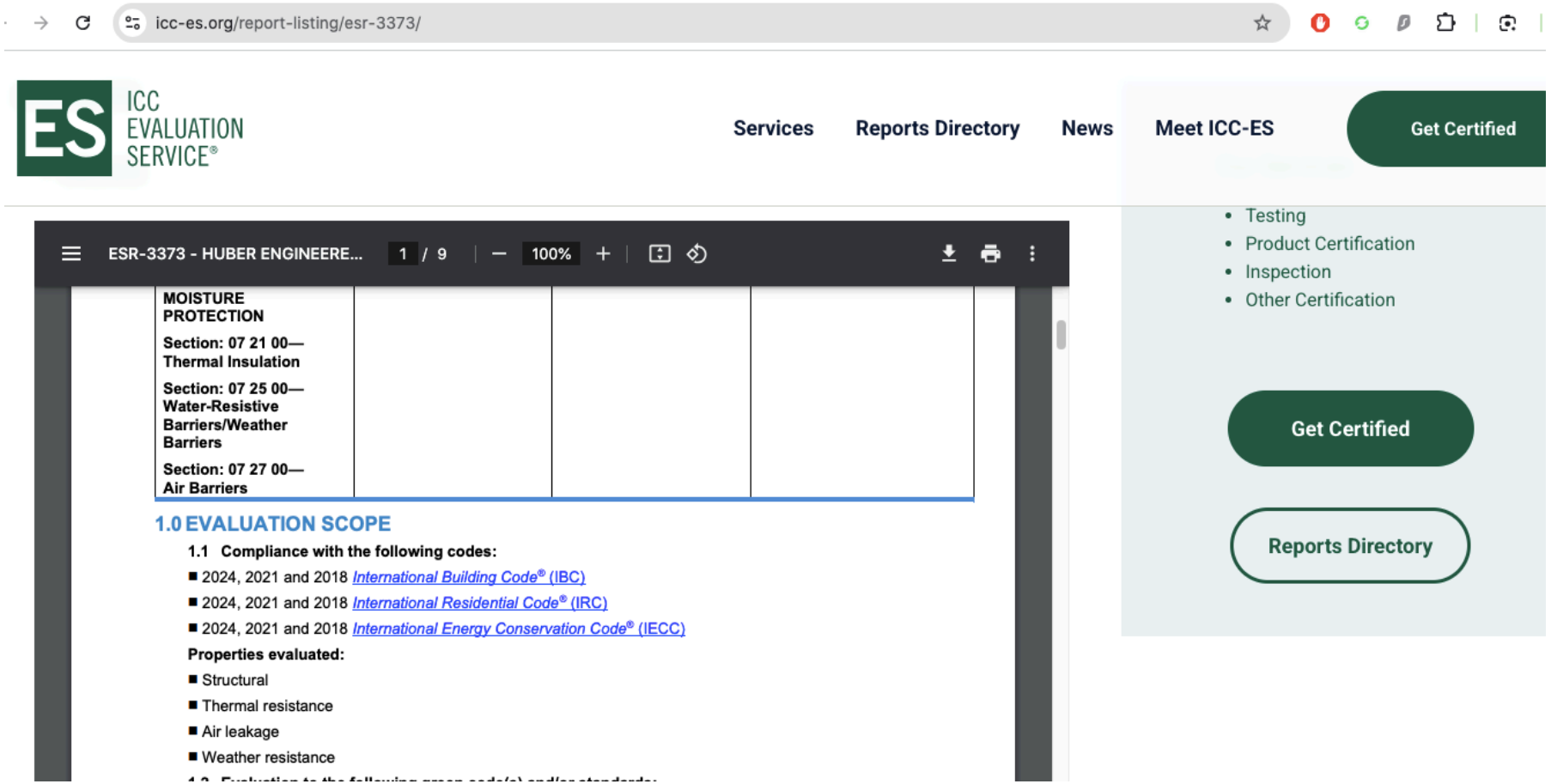
Zip R-Sheathing – ICC-ES Evaluation Report



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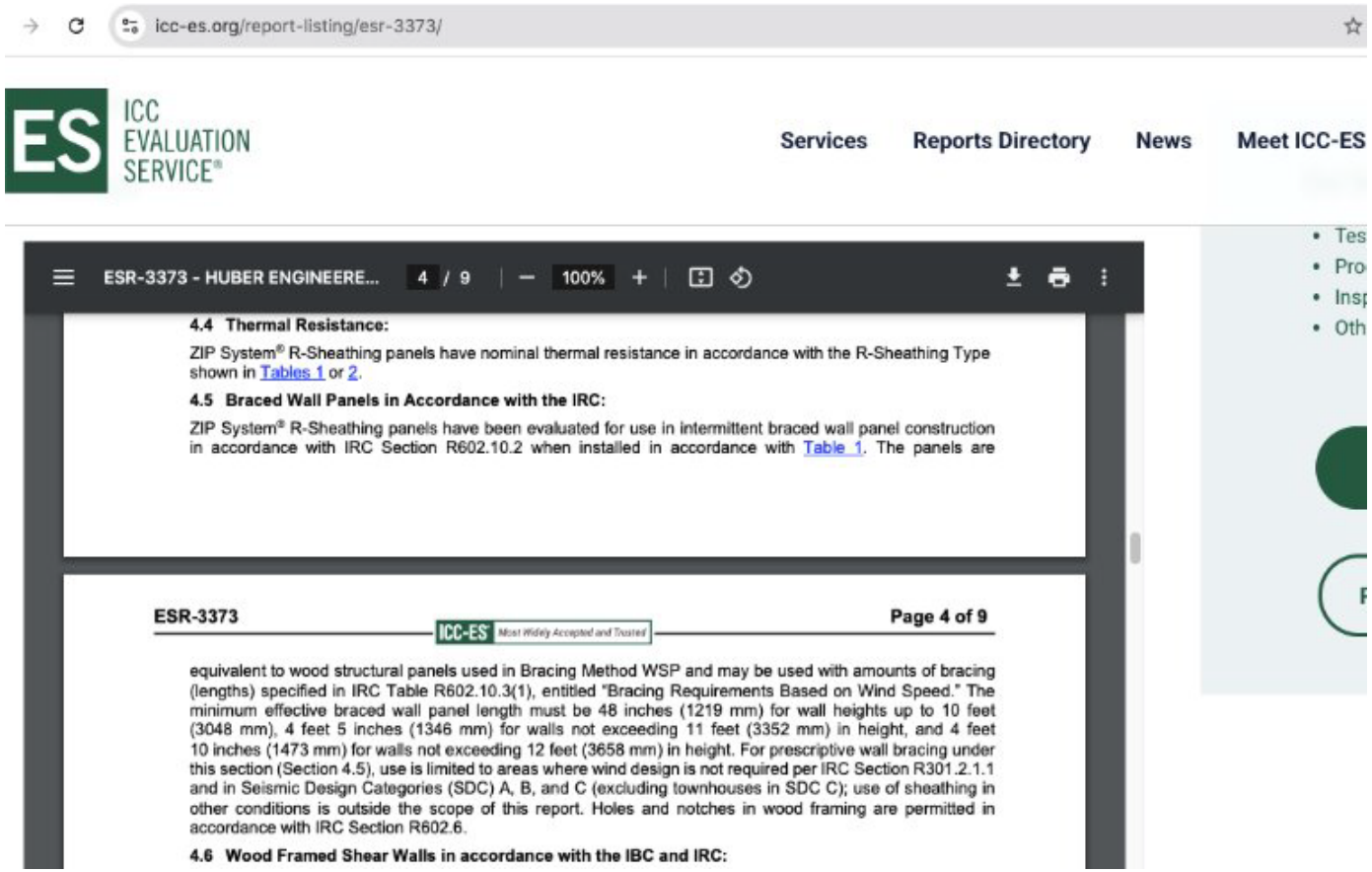
Zip R-Sheathing – ICC-ES Evaluation Report



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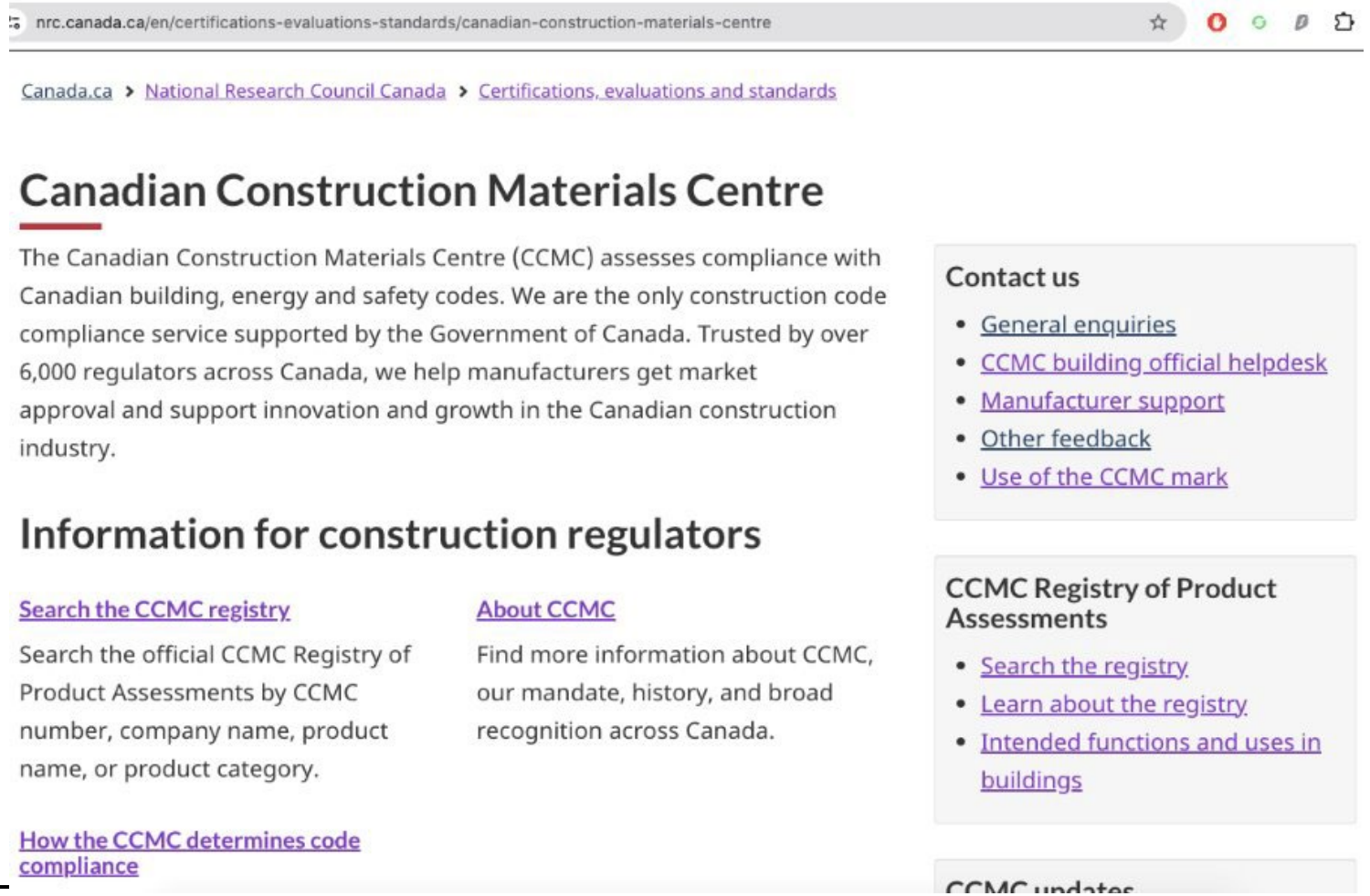
Support for Building Officials



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Canadian Construction Materials Centre

The Canadian Construction Materials Centre (CCMC) assesses compliance with Canadian building, energy and safety codes. We are the only construction code compliance service supported by the Government of Canada. Trusted by over 6,000 regulators across Canada, we help manufacturers get market approval and support innovation and growth in the Canadian construction industry.

Information for construction regulators

Search the CCMC registry

Search the official CCMC Registry of Product Assessments by CCMC number, company name, product name, or product category.

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Find more information about CCMC, our mandate, history, and broad recognition across Canada.

How the CCMC determines code compliance

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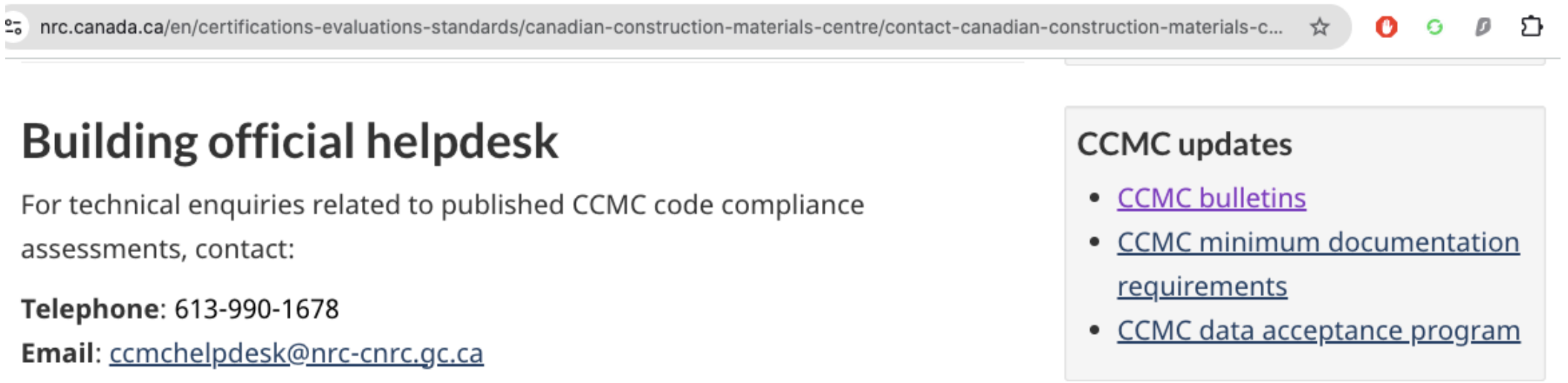
Support for Building Officials



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Support for Building Officials

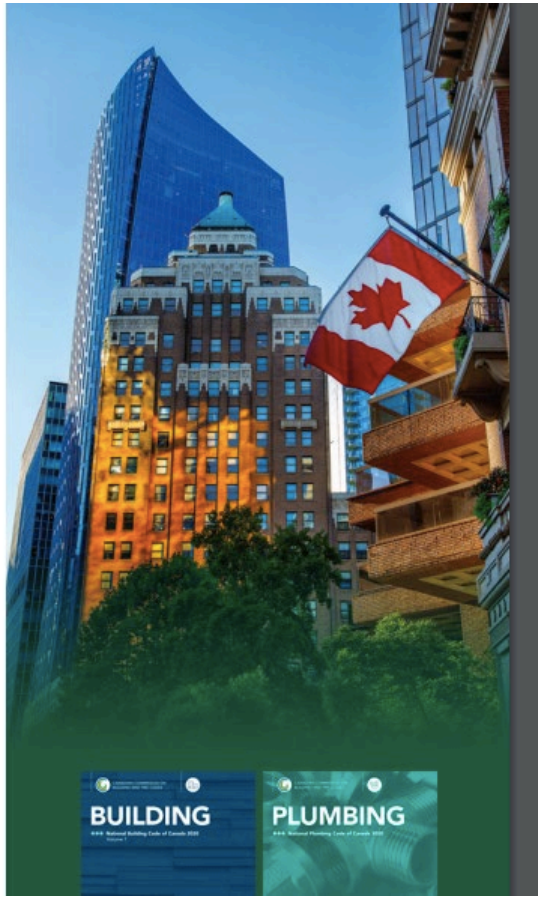
ICC EVALUATION SERVICE®

Why Canadian Building Officials Trust ICC-ES

ICC Evaluation Service (ICC-ES) provides national-level certification of construction products to the National Building, Fire, Plumbing and Energy codes for innovative products.

A global non-profit organization with 90+ years of experience in construction product evaluation, we have issued evaluations to more than 5,000 codes and standards in more than 50 countries.

All Evaluation Service Reports (ESRs) are ISO/IEC 17065 compliant certifications to Canadian codes, making ICC-ES one of the most robust options for code compliance available. What sets ICC-ES apart from a traditional certification body is our ICC-ES-developed Acceptance Criteria. These standard-like documents are produced through a rigorous and transparent process that includes public comment



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End/Questions:

Tim Warner
Twarner@boabc.org

Canadian Building Regulatory System

Abbreviations	
NRC	National Research Council of Canada
NRCan	Natural Resources Canada
CCMC	Canadian Construction Materials Centre
CCCME	Canadian Commission of Construction Materials Evaluation
BSSB	Building Safety Standards Branch
CSDS	Construction Standards and Digital Solutions
SSC	Standards Council of Canada
ICC-ES	International Code Council – Evaluation Services
CBHBC	Canadian Board of Harmonized Building Codes