

PROPOSED CHANGE: Fenestration

CHANGE NUMBER: 2018-BCBC-07-Fenestration

CODE REFERENCE: 2015 National Building Code - Division B - Table 1.3.1.2.

RELATED CODE REFERENCE(S): Sentence 5.10.2.2., Sentence 9.7.4.2.(1)

DESCRIPTION OF THE PROPOSED AMENDMENT:

It is proposed to change the referenced edition of AAMA/WDMA/CSA 101/I.S.2/A440, "NAFS - North American Fenestration Standard/Specification for Windows, Doors, and Skylights" (NAFS) to the 2011 version.

It is proposed to change the referenced edition of A440S1, "Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440, NAFS - North American Fenestration Standard/Specification for Windows, Doors, and Skylights" (Canadian Supplement) to the 2017 version.

It is proposed there will be a transition period for industry to adjust to the NAFS 2011 standard that will be implemented as follows:

- Any products tested to NAFS 2008 and in compliance with the Canadian Supplement 2009 will be permitted, as long as a building permit is in place before December 2019.
- For all building permits after December 2019, windows, doors, and skylights will be required to conform to NAFS 2011 and the Canadian Supplement 2017.

PROBLEM/GENERAL BACKGROUND:

The British Columbia Building Code (BCBC) is based substantially on the model National Building Code of Canada (NBC). The NBC is updated about every five years and British Columbia adopts most of the NBC requirements into the next edition of the BCBC. The 2018 BCBC will be based on the 2015 NBC with some changes specific to British Columbia.

Windows, doors, and skylights are required to conform to either the general requirements of Part 5, or to AAMA/WDMA/CSA 101/I.S.2/A440, "NAFS - North American Fenestration Standard/Specification for Windows, Doors, and Skylights" (NAFS), and A440S1, "Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440, NAFS - North American Fenestration Standard/Specification for Windows, Doors, and Skylights." The NBC has been updated to reference newer editions of these standards. The new editions contain the following changes/improvements:

NAFS 2011:

"AAMA, WDMA and CSA, as the Sponsors of NAFS, have conducted a side-by-side comparison of the testing and specification differences between the 2005, 2008, and 2011 editions of the North American Fenestration Standard (NAFS-05, NAFS-08 and NAFS-11).

Based on this comparison, the Sponsors have determined that in all but a few instances the requirements of NAFS-11 are either identical to, or improvements to, the requirements of NAFS-05 and -08, or are language revisions that do not adversely affect the performance or durability of compliant products. Compliance with previous versions of NAFS does not constitute compliance with NAFS-11.”

Canadian Supplement 2017:

- “The water load for Part 5 buildings has been reduced to reflect more realistic conditions
- the wind and water loads for Part 9 buildings have been reduced to reflect the conditions these buildings will see and agree more closely to the values of A440.1-00.”

The code language shown below is the proposed final code language that will appear in the 2018 BCBC. Comments submitted should focus on the changes noted. Changes from the 2012 BCBC to the 2015 NBC are not identified.

2018 PROPOSED BRITISH COLUMBIA CODE LANGUAGE (Deleted text / Added text):

<p align="center">Table 1.3.1.2. Documents Referenced in the <Book I (General) of the British Columbia Building Code 2012> Forming part of Sentence 1.3.1.2.(1)</p>			
Issuing Agency	Document Number	Title of Document	Code Reference
CSA	AAMA/WDMA/CSA 101/I.S.2/A440- 08 11	NAFS – North American Fenestration Standard/Specification for Windows, Doors, and Skylights	5.9.2.2.(1) A-5.3.1.2. 9.7.4.2.(1) 9.7.5.1.(1) 9.7.5.3.(1) 9.36.2.9.(3) A-9.7.4.2.(1)
CSA	A440S1- 09 17	Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440, NAFS – North American Fenestration Standard/Specification for Windows, Doors, and Skylights	5.9.2.2.(1) 5.9.2.2.(3) A-5.9.2.2. A-5.9.3.5.(3) 9.7.4.3.(1) 9.7.4.3.(2) 9.36.2.9.(3) A-9.7.4.2.(1)

RATIONALE FOR CHANGE:

The proposed changes: allow industry time to sell and install existing products that have been tested to NAFS 2008 and the Canadian Supplement 2009; establish an acceptable and consensus based level of health and safety; and, harmonize referenced standards for windows, doors, and skylights with the 2015 NBC.

JUSTIFICATION/EXPLANATION:

Adoption of window standards from the model NBC will help achieve consistent requirements across Canada. The performance of windows, doors, and skylights required by the Canadian Supplement 2017 is more appropriately matched with the minimum health and safety objectives of the BCBC.

Proposed Code Changes