

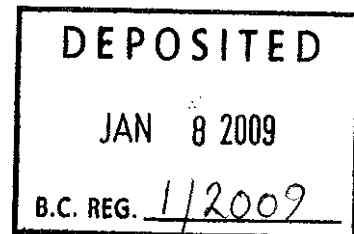
PROVINCE OF BRITISH COLUMBIA
REGULATION OF THE MINISTER OF HOUSING AND SOCIAL DEVELOPMENT

Local Government Act

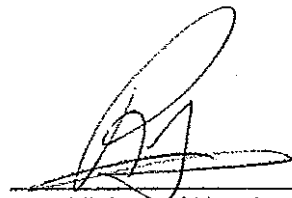
Ministerial Order No.

M 008

I, Rich Coleman, Minister of Housing and Social Development, order that, effective April 6, 2009, B.C. Reg. 216/2006, the British Columbia Building Code Regulation, is amended as set out in the attached Schedule.



Date January 8, 2009


Minister of Housing and Social Development

(This part is for administrative purposes only and is not part of the Order.)

Authority under which Order is made:

Act and section:- Local Government Act, R.S.B.C. 1996, c. 323, section 692

Other (specify):- M166/2006

January 8, 2009

R/8/2009/27

SCHEDULE

DIVISION B

1 *Amend Table 1.3.1.2.*

(a) *in the code reference column for document number D 2898-94 by adding "3.2.2.45.(3)", and*

(b) *in the code reference column for document number Can/ULC-S134-92 by adding "3.2.2.45.(3)".*

2 *Replace Sentence 3.1.8.12. (1) with the following:*

(1) A hold-open device is permitted on a door in a required *fire separation*, other than an *exit* stair door in a *building* more than 3 *storeys* in *building height*, and on a door for a vestibule required by Article 3.3.5.7., provided the device is designed to release the door in conformance with Sentences (2), (3) and (4).

3 *Replace the title of Article 3.2.2.45 with the following:*

3.2.2.45. Group C, up to 6 Storeys, Sprinklered

4 *Replace Sentence 3.2.2.45. (1) with the following:*

1) A *building* classified as Group C is permitted to conform to Sentence (2) provided

a) except as permitted by Sentences 3.2.2.7.(1) and 3.2.2.18.(2) the *building* is *sprinklered* throughout,

b) it is not more than 6 *storeys* in *building height*,

c) it has a maximum height of less than 18 m measured between *grade* and the uppermost floor level of the top *storey*, and

d) it has a *building area* not more than

i) 7 200 m² if 1 *storey* in *building height*,

ii) 3 600 m² if 2 *storeys* in *building height*,

iii) 2 400 m² if 3 *storeys* in *building height*,

iv) 1 800 m² if 4 *storeys* in *building height*,

v) 1 440 m² if 5 *storeys* in *building height*, or

vi) 1 200 m² if 6 *storeys* in *building height*.

5 *Replace Sentence 3.2.2.45. (3) with the following:*

3) Except as required in Sentence (4), a *building* referred to in ~~Clause 3.2.2.45.3. (v)~~ Subclause 3.2.2.45. (1)(d)(v) or (vi) or (vi) shall

a) have an exterior wall cladding which

i) is noncombustible,

- ii) has the exterior wall assembly constructed such that the interior surfaces of the wall assembly are protected by a thermal barrier conforming to Sentence 3.1.5.12.(3), and the wall assembly satisfies the criteria of Sentences 3.1.5.5.(2) and (3) when subjected to testing in conformance with CAN/ULC-S134, "Fire Test of Exterior Wall Assemblies", or
- iii) is *fire-retardant treated wood* tested for fire exposure after the cladding has been subjected to an accelerated weather test as specified in ASTM D 2898 "Accelerated weathering of Fire-Retardant-Treated Wood for Fire Testing."

6 Replace Sentence 3.2.2.45.(4) with the following:

- 4) Sub-clauses 3.2.2.45.(3)(a)(ii) and (iii) are not permitted where an *exposing building face* is required by Article 3.2.3.7. to have *noncombustible* cladding.

7 Add the following new Sentence 3.2.2.45.(5):

- 5) In a *building* that contains *dwelling units* that have more than one *storey*, subject to the requirements of Sentence 3.3.4.2.(3), the floor assemblies, including floors over *basements*, which are entirely contained within these *dwelling units*, shall have a *fire-resistance rating* not less than 1 h but need not be constructed as *fire separations*.

8 Add the following new Sentence 3.2.2.45.(6):

- 6) In a *building* in which there is no *dwelling unit* above another *dwelling unit*, the *fire-resistance rating* for floor assemblies entirely within the *dwelling unit* is waived.

9 Amend Table 3.9.1.1. by replacing the acceptable solution "3.2.2.45. Group C, up to 4 Storeys, Sprinklered" with "3.2.2.45. Group C, up to Six Storeys, Sprinklered" and by adding the following entry in the column of objectives and functional statements for that acceptable solution:

- 3) (a) [F02-OS1.2, OP1.2]

10 Add the following new Sentence 4.1.8.10.(4):

- 4) In cases where $I_{EF_a}S_a(0.2)$ is equal to or greater than 0.35, for *buildings* constructed with 5 or 6 *storeys* of continuous *combustible* construction as permitted by Article 3.2.2.45. and having any fundamental lateral period, T_a , walls forming part of the SFRS within the continuous *combustible* construction shall not have irregularities of Type 4 or 5 as described in Table 4.1.8.6.

11 Replace the title of Subsection 4.3.1. with the following:

4.3.1. Wood (See Appendix A)

12 Amend Table 4.5.1.1. by adding the following entry in the column for objectives and functional statements for the acceptable solution “4.1.8.10. Additional System Restrictions”:

- 4) [F20–OS2.4, OP2.4][F22-OS2.4, OP2.4]

The following is not part of this regulation and is for explanatory purposes only.

APPENDIX A

A-4.3.1. Wood

The design criteria for wood, CAN/CSA 086 “Engineering Design in Wood”, makes assumptions that the wood products being used are in a condition as intended by their grading. This includes the limits of moisture content as specified by the grade. However, conditions such as transportation, site storage, and construction conditions can impact the original design assumptions.

Design considerations should include and be specific to shrinkage that may occur due to changes in moisture content of the wood. This is of particular concern where the building height can be up to 6 storeys, such as being built under Article 3.2.2.45. The potential building movement due to shrinkage should be indicated to other design professionals for their considerations such as cladding systems, mechanical systems, hold-down devices for structural walls and connections to non-shrinking elements including firewalls and elevator shafts.