



City of Vancouver *Planning By-law Administration Bulletins*

Planning, Urban Design and Sustainability Department

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FLOOR SPACE EXCLUSION TO ACCOMMODATE IMPROVED BUILDING PERFORMANCE (ENVELOPE AND THERMAL INSULATION)

Authority - Director of Planning

Effective March 14, 2000

*Amended December 14, 2004, January 20, 2009, July 13, 2011, April 28, 2015, May 12, 2016,
January 1, 2018 and February 15, 2018*

1 Introduction

Between 2000 and 2017, City Council amended the Zoning and Development By-law to:

- accommodate certain increases in insulation thickness used to meet the Vancouver Building By-law (VBBL),
- improve thermal performance above and beyond the VBBL, and
- accommodate rain screen assemblies in larger buildings.

2 Exclusion for Insulation Meeting the VBBL in Residential Buildings of Six Storeys or Less

Section 10.33.1 *All residential from one family dwelling to six storey multiple dwelling*
Section 11.24.18 *Laneway houses*

These exclusions are designed to accommodate the additional thickness of thermal insulation required in 2014 and 2018 to achieve a wall performance of RSI-3.85 (R-22) effective.

The exclusions do not apply to mixed-use or non-residential buildings, to tall buildings; or to walls with less insulation than specified. In these cases, see part 3 of this guide. Regulations which control building size such as height and setbacks remain in effect, except the maximum distance to the rear property line may be relaxed for laneway houses if the excluded area cannot otherwise be accommodated. Buildings that contain some insulation that is thinner than specified, such as basement or zero lot line walls, qualify for this exclusion as long as these walls are a minority of the total walls in the building.

Submission Requirements

Please ensure your application includes the following information:

- (a) Wall assembly diagrams with dimensions for each layer of thermal insulation
- (b) A wall schedule listing total thermal thickness for each wall, coordinated with (a)
- (c) A table for each level indicating the proposed exclusion from floor area, coordinated with (b)

Insulation may be located in the stud cavity, exterior to the stud cavity, or in both locations (split insulation) so long as the combined thickness exceeds the amount required. Sheathing, air spaces, and other elements whose primary function is not thermal insulation are not included in the combined thickness when calculating this exemption.

3 Exclusions for Better Insulation in All Buildings

Section 10.33.2 *Buildings with wall performance beyond the VBBL*

This exclusion is intended to ensure that the floor area occupied by insulation beyond the requirement of the VBBL is not lost.

The insulation thickness that exceeds the prescriptive thermal insulation requirement in the VBBL for exterior walls can be excluded, to a maximum of 330 mm (13 in.) in buildings of six storeys and below, and a maximum of 179 mm (7 in.) in others. Verification by a Building Envelope Professional is required. This exclusion cannot be combined with the exclusion in part 2 of this guide.

Regulations that limit building size remain in effect, except for certain setback and height limits that may be relaxed at the discretion of the Director of Planning to accommodate the additional insulation for a Passive House. Refer to the relevant district schedule for the specific relaxations available, and to the “Passive House Relaxations: Guidelines for Residences in RS Districts” or the “Passive House Relaxations: Guidelines for Larger Projects.”

Submission Requirements

To apply for an exclusion, the following will be required in addition to standard materials:

- (a) A sealed and signed letter from a Registered Professional as defined in the VBBL that recommends the proposed wall types, shows assembly diagrams with insulation dimensions, verifies the RSI or U-value for each wall, and notes the amount of exclusion requested.
- (b) A schedule of wall assemblies indicating materials and dimensions, with reference to applicable standards.
- (c) A summary table for each floor indicating the requested floor space exclusion for each assembly.

4 Exclusions for Rain Screen Elements

Section 10.33.3 *Buildings larger than two family dwelling*

This floor space exclusion for larger buildings is intended to accommodate rain screen elements in a wall, and to facilitate repairs and replacement of walls on buildings which have been subject to leaks and water damage.

Within walls that exceed 203 mm in total thickness, exclusion may be sought for the area occupied by the rain screen elements as verified by a Building Envelope Professional, to a maximum exclusion of 152 mm. Regulations that limit building size remain in effect, except

that for repairs to leaky walls, setback relaxations can be considered by the Director of Planning.

Submission Requirements

To apply for an exclusion, the following will be required in addition to standard materials:

- (a) A sealed and signed letter from a Building Envelope Professional as defined in the VBBL recommending the proposed wall types to control building envelope leaks.
- (b) Wall sections indicating materials, dimensions, and reference to applicable standards.
- (c) Identification of the location and extent of each wall section on building plans.
- (d) A summary table for each floor indicating the requested floor space exclusion by wall type.