

# CITY OF WHITEHORSE

## BYLAW 2009-16

A bylaw to amend Building and Plumbing Bylaw 99-50

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WHEREAS council adopted a Building and Plumbing Bylaw to administer standards respecting the construction, demolition, removal, or alteration of any building or structure within the City of Whitehorse; and

WHEREAS section 220 of the *Municipal Act* provides that Council may by bylaw amend or vary bylaws; and

WHEREAS it is deemed desirable and expedient to amend City of Whitehorse Building and Plumbing Bylaw 99-50 to include energy conservation items and address certain housekeeping issues;

NOW THEREFORE the Council of the municipality of the City of Whitehorse, in open meeting assembled, hereby ENACTS AS FOLLOWS:

1. Bylaw 99-50 is hereby amended by deleting the existing section 82 and substituting therefore a new section 82 as follows:

“82. Washrooms:

- (1) Every building open to the public shall have not less than one Universal Toilet Room conforming to sentence 3.8.3.12(1) of the National Building Code or equivalent services that are available for use by the public.
  - (2) Every building open to the public shall be equipped with an infant change table or clear counter space with a minimum unobstructed area of 51cm by 92cm.
  - (3) Every washroom connected to municipal services shall have installed water closets not exceeding 6L per flush.
  - (4) Every washroom shall have installed manual flush valves on any urinals.”
2. Bylaw 99-50 is hereby amended by adding new sections 86 to 89 inclusive and renumbering the remaining sections accordingly. The new sections shall read as follows:

“86. Minimum Thermal Insulation Values

- (1) This section applies to site and factory built buildings and additions to buildings intended to be occupied during the heating season excluding residential accessory structures and unheated buildings.
- (2) Except as provided in section 86(3), all walls, ceilings, and floors separating heated space from unheated space and the exterior air or soil, shall incorporate thermal insulation with values not less than:
  - a) Walls including foundations above and below grade – RSI 4.9 (R28).

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- b) Ceilings throughout – RSI 8.8 (R50).
  - c) Floors above unheated spaces – RSI 4.9 (R28).
  - d) Slabs on ground – RSI 1.8 (R10).
  - e) Slabs on ground containing radiant heat – RSI 3.5 (R20)
  - f) Concealed floor space or crawl space from grade – RSI 1.8 (R10)
- (3) Alternatives to the insulation requirements of Section 86(2) may be determined thru the use of energy computer modeling resulting in an equivalent performance or achieving an EnerGuide Rating System value of 80.
  - (4) Doors excluding glazing shall have a minimum thermal resistance of RSI 2.1 (R 12)
  - (5) Windows and glazing installed shall have a minimum thermal resistance U value of  $1.6\text{W}/\text{m}^2\cdot\text{K}$  (R 3.6).
  - (6) Insulation with a thermal resistance of not less RSI 1.8 (R10) shall be installed around the perimeter of a building extending not less than 600mm (2') from the building face immediately above or at footing level.”
- “87. The building envelope of new dwelling units shall be constructed with a maximum 1.5 air changes per hour at a 50 Pa depressurization or a maximum normalized leakage area of  $0.7\text{cm}^2/\text{m}^2$  of exterior wall surface at a 10 Pascal depressurization when measured in accordance with CAN/CGSB-149.10-M (determination of the air tightness of building envelopes by fan depressurization method).”
- “88. Heat Recovery Ventilators with a sensible recovery efficiency of 64% or more at an outside winter design temperature of  $-25\text{ }^\circ\text{C}$  shall be used as the principal ventilation fan to satisfy the requirements of clause 9.32.3.3 1) a) of the National Building Code.”
- “89. Fire Department Connections for automatic sprinkler systems shall utilize a 4” stortz hose connection with screen and cap. “
- 3. This bylaw shall come into force and effect for manufactured homes one year from the date of adoption of this bylaw.
  - 4. Except as provided in section 3 herein, this bylaw shall come into force and effect upon September 1, 2009.

**FIRST and SECOND READING:** June 15, 2009

**THIRD READING and ADOPTION:**

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Mayor

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City Clerk