

application or construction undertaken pursuant to this By-law.

5.8 No person shall *occupy* or use any new **building**, any **addition** to a **building** or any **alteration** to a **building**:

a. unless a valid and subsisting **occupancy permit** in the form prescribed by the **Senior Administrative Officer**, has been issued by an **Inspector** for the **building**;

b. contrary to the terms of any **permit** issued or any notice given by an **Inspector**.

5.9 No person shall obstruct the entry of an **Inspector** or other authorized official of the **City** on property in the administration of this By-law.

6. LOCAL CONSTRUCTION REQUIREMENTS

Section 6.1

as amended by By-law No. 4957 June 25, 2018

as amended by By-law No. 4685 May 14, 2012

as amended by By-law No. 5004 September 9, 2019

6.1 Part 9 Residential

1. This section applies to all Part 9 residential buildings:

a. Comply with Prescriptive Path or Performance Path, and all other requirements.

2. Prescriptive Path: The effective thermal resistance of building enclosure assemblies or portions thereof shall be not less than that shown in Tables 1.

TABLE 1: PART 9 PRESCRIPTIVE PATH VALUES		
ASSEMBLY	EFFECTIVE RSI [m ² ·K/W]	EFFECTIVE R-VALUE [ft ² ·°F/btu]
Walls (above grade)	5.28	30
Walls (below grade)	4.96	28
Attic ceilings/roof	10.6	60
Cathedral ceilings/roof	7.0	40
Slab on ground	5.64	32
Exposed floor	7.0	40

Floors above unheated space	6.28	35
Insulation skirt extending out horizontally (1m out)	5.64	32
	EFFECTIVE USI [W/m ² ·K]	EFFECTIVE U-VALUE [btu/ft ² ·°F]
Doors excluding glazing	0.91	0.16
Windows and glazed doors	1.00	0.18
	OTHER	
Maximum fenestration and door-to-wall ratio (FDWR)	15%	

OR

3. Performance Path: Buildings conforming to the requirements of the performance path shall be designed and constructed to conform to the energy performance requirements in Table 2.

Table 2: PART 9 PERFORMANCE PATH VALUES	
Metric	Target
TEDI	105 kWh/(m ² a)
%<Ref (no 9.36.5 or ERS base loads)	-25%

4. Energy modelling shall be performed using a computer program that employs calculation methods that have been tested in accordance with ANSI/ASHRAE 140, "Evaluation of Building Energy Analysis Computer Programs". Energy modelling shall conform to Subsection 9.36.5 of the NBC or the ERS.

AND

5. Buildings shall be tested for airtightness twice and meet a Mid-Construction target of 3.0 ACH50 (1.5 cm²/m² NLA for buildings with < 1,200 ft² floor area) during Mid-Construction test and 1.5 ACH50 (1.0 cm²/m² NLA for buildings with < 1,200 ft² floor area) during final post-construction test in accordance with:

- a) CAN/CGSB 149.10, "Determination of the Airtightness of Building Envelopes by the Fan Depressurization Method"; and
 - b) ASTM E 779, "Standard Test Method for Determining Air Leakage Rate by Fan Pressurization"; or
 - c) USACE Version 3, "Air Leakage Test Protocol for Building Envelopes"; and
 - d) The applicable standards and requirements of ERS.
6. All housing types, as defined in the ERS, must have an EnerGuide rating label affixed somewhere visible in the home at the time of final inspection by the City.
7. A house performance compliance calculation report, in a form prescribed by the Senior Administrative Officer, shall be provided in accordance with Article 2.2.8.3 Division C of the NBC.

Section 6.2

as amended by By-law No. 4685 May 14, 2012

as amended by By-law No. 5004 September 9, 2019

6.2 Part 3 All Other Buildings

6.2.1 Part 3 Residential

- 1) This section applies to buildings containing Part 3 Residential occupancies.
- 2) All buildings shall be designed with ventilation in conformance with ASHRAE 62.1-2001 (except addendum n) and constructed to conform to:
 - a) ANSI/ASHRAE/IESNA 90.1-2010, "Energy Standard for Buildings, except Low Rise Residential Buildings"; or
 - b) the current version of the NECB, except that where NECB refers to the NBC, the provisions of this By-law shall apply.
- 3) Comply with Prescriptive Path or Performance Path, and all other requirements.