

# Changes to CHBA Net Zero Home Labelling Program Technical Requirements Approved by the Technical Committee July 17, 2017

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## 4.7 Ventilation Systems

Source: ESNH  
v12.6 & R-2000  
NZE Pilot.

### 4.7.1 General

1. To help provide good indoor air quality, a balanced ventilation system with heat recovery shall be provided.
2. The ventilation system must be capable of meeting the principle ventilation air flow rate required by the home.
- ~~3. The ventilation system shall be installed such that the supply and exhaust flows are measured and balanced within 10% at high speed, with a label attached to the equipment indicating the installing company, who balanced the unit, and the measured flow rates, as per Section 4.7 of the ENERGY STAR® for New Homes requirements.~~

Source: ESNH  
v12.6 & R-2000  
NZE Pilot.

### 4.7.2 Required Principle Ventilation Capacity

1. The principle ventilation capacity for residential units shall be achieved through
  - (a) a heat recovery ventilator (HRV),
  - (b) an energy recovery ventilator (ERV), or
  - (c) an integrated mechanical system (IMS)

Source: ESNH  
v12.6 & R-2000  
NZE Pilot.

### 4.7.3 Design and Installation of Ventilation Systems

1. Ventilation systems for residential units shall be
  - (a) designed, installed and balanced in accordance with CAN/CSA F326-M91 (R2014) "Residential Mechanical Ventilation Systems", or Subsection 9.32.3 of the 2015 National Building Code, or local equivalent, and
  - (b) ~~shall be~~ installed such that the supply and exhaust flows are measured and balanced within 10% at high speed, with a label attached to the equipment indicating the installing company who balanced the unit, and the measured flow rates, as per Section 4.7 of the ENERGY STAR® for New Homes requirements.
2. The sensible heat recovery efficiency (SRE) shall be taken at an airflow rate greater than or equal to the airflow rate indicated in Table 5 but need not exceed 30 L/s.

#### NOTE:

1. The applicable SRE corresponding to the airflow rate indicated in Table 5 can also be determined by interpolating between two airflow rates. Extrapolation of SRE values beyond those reported in the

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HVI Directory is not allowed.

~~2. CSA F326-M91 (R2014) is a means of demonstrating compliance to Section 9.32 of the 2012 NBC.~~

~~3.2.~~ The corridor ventilation rate is consistent with ASHRAE Standard 62.1-2010 "Ventilation for Acceptable Indoor Air Quality".