



## Change Request Ruling

**Change Request:** 4.7.4 Ventilation Equipment

**ID #:** CR-000008

**Submitted By:** Tyler Hermanson

**Submitted On:** May 11, 2018

**Ruling Date:** December 17, 2018

**Ruling:** **Change Request Approved.**

**Reason for Change Request and Recommended Alternative:** The project, located at 3381 Radcliffe Avenue, West Vancouver, BC, has elected to install a Zehnder ComforAir 550 HRV which is an HVI certified product that has a sensible recovery efficiency of 80% at 0 degrees Celsius but does not have a rating tested at -25 degrees Celsius.

The project is currently seeking Passive House certification and would likely meet the NZE certification provided the HRV is allowed.

The efficiency rating of HRV's in the National Building Code of Canada 2015 requires the following: 9.36.3.9.(3) - When tested in conformance with the low-temperature thermal performance and ventilation test methods described in CAN/CSA-C439, "Rating the Performance of Heat/Energy-Recovery Ventilators." heat recovery ventilators described in Sentence (1) shall have a sensible heat-recovery efficiency of a) at least 60% at an outside air test temperature of 0 degrees Celsius for locations with a 2.5% January design temperature greater than or equal to -10 degrees Celsius, and b) at least 60% at an outside air test temperature of -25 degrees Celsius for locations with a 2.5% January design temperature less than -10 degrees Celsius.

As per the Climatic information in the NBC2015 the 2.5% January design temperature in West Vancouver, BC is -7 degrees Celsius which would mean sentence b) does not apply, and therefore we request the -25 degree Celsius test not be required for NZE certification for this project.

**Additional Comments / Actions:** *This change request was previously reviewed in June 2018 by the v2 Review Team and approved for use in the next version of the Technical Requirement as the testing relaxation can be found in both the NBC and Amendment 15.*