BSR/RESNET/ICC Standard 301-2014 Addendum C-201x PDS-01 June 13, 2016

Modify Table 4.2.2(1) as follows:

Building Component	Energy Rating Reference Home	Rated Home
Air exchange rate	Specific Leakage Area $(SLA)^{(d)} =$	Tested in accordance with
	0.00036 ^(f) as supplemented by	requirements such as or
	mechanical ventilation added in	equivalent to
	quadrature ^(g) where necessary to	ANSI/RESNET/ICC
	bring the total air exchange rate	Standard 380-2016Section
	to 0.30 ach and assuming no	802 of the Mortgage
	energy recovery and with	Industry National Home
	energy loads calculated in	energy Rating Systems
	quadrature ^{(f), (g)}	Standards
		For residences, without
		Whole-House Mechanical
		Ventilation Systems, the
		measured infiltration rate ^(e)
		but not less than 0.30 ach
		For residences with Whole-
		House Mechanical
		Ventilation Systems, the
		measured infiltration
		$rate^{(e),(f)}$ combined in
		quadrature ^(g) with the time-
		averaged Whole-House
		Mechanical Ventilation
		System rate. , ^(f) which The
		time-averaged Whole-
		House Mechanical
		Ventilation System rate
		shall not be less than
		$\frac{0.030.01}{0.01} \times CFA + 7.5 \times 10^{-10}$
		(Nbr+1) cfm ^{(h),(i)} and with
		energy loads calculated in
		quadrature ^(g)
Whole-House	None, except where a mechanical	Same as Rated Home
Mechanical ventilation	ventilation system is specified	
fan energy:	by the Rated Home, in which	
<u>ian energy</u> .	case:	
	Where Rated Home has supply-	
	only or exhaust-only Whole-	
	House Ventilation System:	
	nouse ventilation system.	

 Table 4.2.2(1)
 Specifications for the Energy Rating Reference and Rated Homes

Building Component	Energy Rating Reference Home	Rated Home
	0.35*fanCFM*8.76 kWh/y	
	Where Rated Home has balanced	
	Whole-House Ventilation	
	System without energy	
	recovery:	
	0.70* fanCFM*8.76 kWh/y	
	Where Rated Home has balanced	
	Whole-House Ventilation	
	System with energy recovery:	
	1.00*fanCFM*8.76 kWh/y	
	And where fanCFM is calculated	
	in accordance with Section 4.1.2	
	ASHRAE Standard 62.2-2013 as	
	$0.01 \text{ x CFA} + 7.5 \text{ x (Nbr+1) cfm}^{(h)}$	
	for a continuous Whole-House	
	Ventilation System.	

Table 4.2.2(1) Specifications for the Energy Rating Reference and Rated Homes

(d) Where Effective Leakage Area (ELA) is defined in accordance with Equation 4.4 of ASHRAE Standard 62.2-2013, and where SLA = ELA / CFA (where ELA and CFA are in the same units).

(e) Tested envelope leakage shall be determined and documented <u>by an Approved Tester</u> using the on-site inspection protocol as specified by requirements such as or equivalent to <u>ANSI/RESNET/ICC Standard 380-2016</u>Section 802 of the *Mortgage Industry National Home Energy Rating Systems Standards* by an Approved Tester.

(f) The combined air exchange rate for <u>Effective Annual Average</u> Infiltration <u>Rate (cfm) and</u> Whole-House Mechanical Ventilation Systems-shall be determined in accordance with Equation 4.6<u>Section 4.1.2</u> of ASHRAE Standard 62.2-2013.

(g) Either hourly calculations using the procedures given in the 2013 ASHRAE Handbook of Fundamentals (IP version), Chapter 16, page 16.25, Equation 51 using Shelter Class 4 or calculations yielding equivalent results shall be used to determine the energy loads resulting from infiltration in combination with Whole-House Mechanical Ventilation systems.

(h) Where the measured Effective Annual Average Infiltration Rate determined in accordance with Section 4.1.2 of ASHRAE Standard 62.2-2013 exceeds 0.02*CFA cfm, the minimum time-averaged Whole-House Mechanical Ventilation System rate shall be reduced by 50% of the difference between 0.02*CFA cfm and the measured Effective Annual Average Infiltration Rate (cfm).

(i) Where Whole-House Mechanical Ventilation is provided by a Central Fan-Integrated System (CFIS), the measured outdoor air flow rate of the CFIS, as determined in accordance with ANSI/RESNET/ICC Standard 380-2016, shall be used to compute the necessary runtime fraction of the CFIS required to achieve the time-averaged Whole-House Mechanical Ventilation system rate. Renumber all following Table 4.2.2(1) notes.

Modify Section 4.3.3.2.5 as follows:

4.3.3.2.5. Combined infiltration and ventilation may not be less than the ventilation rates required by ASHRAE Standard 62.2-2013, nor greater than nL * wsf * 1.2 in summer and nL * wsf * 1.6 in winter.

Add the following definitions:

Effective Annual Average Infiltration Rate – the constant air infiltration rate in cubic feet per minute (cfm) that would result in the same average indoor pollutant concentration over the annual period as occurs under varying infiltration conditions.

<u>Central Fan-Integrated System – an outdoor air ventilation system that uses the blower of the Heating. Ventilating and Cooling (HVAC) system to draw outdoor air into the home through a dedicated duct from the outdoors to the return side of the HVAC system's air handler unit (AHU) for distribution to the conditioned space.</u>