## ANSI/RESNET/ICC 301-2014 Addendum E-2018 House Size Index Adjustment Factors (IAF) Effective Date February 1, 2018

## Add the following new Section:

- 4.3 Index Adjustment Factor (IAF). The IAF for each Rated Home shall be determined in accordance with Sections 4.3.1 through 4.3.5.
- 4.3.1 Index Adjustment Design (IAD). An IAD shall be configured in accordance with Table
  4.3.1(1). Renewable Energy Systems that offset the energy consumption requirements
  of the Rated Home shall not be included in the IAD.

Table 4.3.1(1) Configuration of Index Adjustment Design

Seneral Characteristics:   Number of Stories (NS): Two (2)   Number of Bedrooms (Nbr): Three (3)   Conditioned Floor Area (CFA): 2400 ft²   Number of conditioned zones: One (1)   No attached garage   Wall height: 17 feet (including band joist)   Wall width: 34.64 feet facing N, S, E and W   All heating, cooling, and hot water equipment shall be located in conditioned space.   Type: Vented crawlspace   Venting: net free vent aperture = 1ft² per 150 ft² of crawlspace   Foundation:   Type: Vented crawlspace   Venting: net free vent aperture = 1ft² per 150 ft² of crawlspace   Floor u-Factor: Same as Energy Rating Reference Home   Foundation wall: 2 feet tall, 2 feet above grade   Wall width: 34.64 feet facing N, S, E and W   Wall U-Factor: Same as Energy Rating Reference Home   Type: Same as Rated Home. If more than one type, maintain same proportional coverage for each type, excluding any garage wall and adiabatic wall areas.   Gross Area: 2360ft² total, 590ft² facing N, S, E and W   U-Factor: Same as Rated Home   Solar absorptance: Same as Rated Home   Emittance: Same as Rated Home   Type: Same as Rated Home	Table 4.3.1(1) Configuration of Index Adjustment Design		
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Gross projected footprint area: 1200 ft <sup>2</sup>	Ceilings:	Type: Same as Rated Home. If more than one type, maintain same	
		proportional coverage for each type.	
<u>U-Factor: Same as Rated Home</u>		Gross projected footprint area: 1200 ft <sup>2</sup>	
		<u>U-Factor: Same as Rated Home</u>	

<b>Building Component</b>	Index Adjustment Design (IAD)
Roofs:	Type: Same as Rated Home. If more than one type, maintain same
	proportional coverage for each type.
	Gross area: 1300 ft <sup>2</sup>
	Solar absorptance: Same as Rated Home
	Values from Table 4.2.2(4) shall be used to determine solar
	absorptance except where test data are provided for roof surface
	in accordance with ANSI/CRRC S100.
	Emittance: Same as Rated Home
	Emittance values provided by the roofing manufacturer in
	accordance with ANSI/CRRC S100 shall be used when
	available. In cases where the appropriate data are not known,
	same as the Energy Rating Reference Home.
Attics:	Type: Same as Rated Home. If more than one type, maintain same
	proportional coverage for each type.
Doors:	Area: Same as Rated Home
	Orientation: Same as Rated Home
	<u>U-Factor: Same as Rated Home</u>
Glazing:	Total area =Same as Energy Rating Reference Home
	Orientation: equally distributed to four (4) cardinal compass
	orientations (N,E,S,&W)
	<u>U-Factor: Area-weighted average U-Factor of Rated Home</u>
	SHGC: Area-weighted average SHGC of Rated Home
	Interior shade coefficient:
	Summer: Same as Energy Rating Reference Home
	Winter: Same as Energy Rating Reference Home
	External shading: None
<u>Skylights</u>	Same as Rated Home
Thermally isolated	Same as Rated Home
sunrooms	
Air exchange rate	Combined infiltration flow rate plus mechanical ventilation flow
	rate of
	0.03 * CFA + 7.5 * (Nbr+1) cfm and with energy loads
	<u>calculated in quadrature</u>
	<u>Infiltration flow rate shall be determined using the following</u>
	envelope leakage rates:
	5 ACH <sub>50</sub> in IECC <sup>1</sup> Climate Zones 1-2
	3 ACH <sub>50</sub> in IECC Climate Zones 3-8
Whole-House	Balanced Whole-House Ventilation System without energy
Mechanical ventilation	recovery with fan power = $0.70 * \text{fanCFM} * 8.76 \text{ kWh/y}$
fan energy:	
<u>Internal gains:</u>	As specified by Table 4.2.2(3) except that lighting shall be 75%
	high efficiency

<sup>&</sup>lt;sup>1</sup> Climates zones shall be as specified by the 2012 IECC.

<b>Building Component</b>	Index Adjustment Design (IAD)
Internal mass:	An internal mass for furniture and contents of 8 pounds per square
	foot of floor area
Structural mass:	Same as Energy Rating Reference Home
Heating systems	Fuel type: Same as Rated Home
	Efficiencies:
	Electric: air source heat pump in accordance with Table
	4.2.2(1a)
	Non-electric furnaces: natural gas furnace in accordance with
	<u>Table 4.2.2(1a)</u>
	Non-electric boilers: natural gas boiler in accordance with Table
	<u>4.2.2(1a)</u>
	Capacity: sized in accordance with Section 4.3.3.1
<u>Cooling systems</u>	Fuel type: Electric
	Efficiency: in accordance with Table 4.2.2(1a)
	Capacity: sized in accordance with Section 4.3.3.1
Service water heating	Fuel type: same as Rated Home
<u>systems</u>	Efficiency:
	Electric: EF = $0.97 - (0.00132 * store gal)$
	Fossil fuel: $EF = 0.67 - (0.0019 * store gal)$
	<u>Use</u> : Same as Energy Rating Reference Home (see Addendum A)
	Tank temperature: 125 F
Thermal distribution	Thermal distribution system efficiency (DSE) of 1.00 shall be
systems:	applied to both the heating and cooling system efficiencies and
	air distribution systems shall be located within the conditioned
	<u>space</u>
Thermostat	Type: manual
	Temperature set points: cooling temperature set point = 78 F;
	heating temperature set point = 68 F
Lighting, Appliances	Same as the Energy Rating Reference Home, except that lighting
and Miscellaneous	shall be 75% high efficiency
Electric Loads (MELs)	

4.3.2 An approved<sup>2</sup> Energy Rating Software Tool shall be used to determine the Energy Rating Index for the IAD (ERI<sub>IAD</sub>).

**4.3.3** The saving represented by the IAD shall be calculated using equation 4.3.3-1.

$$IAD_{SAVE} = (100 - ERI_{IAD}) / 100$$
 (Eq. 4.3.3-1)

 $\frac{\textbf{4.3.4} \quad \text{The IAF for the Rated Home (IAF}_{PD}) \text{ shall be calculated in accordance with equation}}{4.3.4-1.}$ 

$$\frac{IAF_{RH} = IAF_{CFA} * IAF_{Nbr} * IAF_{NS}}{where:}$$
(Eq. 4.3.4-1)

IAF<sub>RH</sub> = combined Index Adjustment Factor for Rated Home

<sup>&</sup>lt;sup>2</sup> Informative Note: The Residential Energy Services Network (RESNET) accredits Energy Rating Software Tools in accordance with RESNET Publication 002.

$IAF_{CFA} = (2400/CFA) \land [0.304 * (IAD_{SAVE})]$
$IAF_{Nbr} = 1 + [0.069 * (IAD_{SAVE}) * (Nbr-3)]$
$\overline{\text{IAF}_{\text{NS}}} = (2/\text{NS}) \land [0.12 * (\overline{\text{IAD}}_{\text{SAVE}})]$
where:
CFA = Conditioned Floor Area
Nbr = Number of bedrooms
NS = Number of stories

## Modify equation 4.1-2 as follows:

ERI = PEfrac \* (TnML / 
$$\underline{\text{(TRL } \pm \text{IAF}_{RH}}$$
)) \* 100 (Eq 4.1-2)

where:

 $IAF_{RH}$  = Index Adjustment Factor of Rated Home

## Add the following new definitions:

Index Adjustment Design – a home design comprising 2-stories and 3 bedrooms with conditioned floor area of 2,400 ft2 used to determine the percentage improvement over the Energy Rating Reference Home for the purposes of determining the Index Adjustment Factor that is applied to the Rated Home.

<u>Index Adjustment Factor</u> – a value calculated using the percentage improvement of the Index Adjustment Design to determine the impact of home size, number of bedrooms and number of stories on the Energy Rating Index of the Rated Home.