



Setting the **Standards** for  
**Home Energy Efficiency**

## **Interpretation on Multiple Mechanical Ventilation Systems Modeling**

**Designation:** No. 301-2014-13

**Approved:** February 22, 2018 by SDC 300, Testing, Calculation and Labeling for Home Energy Ratings

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**Applies to:** ANSI/RESNET/ICC 301-2014, Table 4.2.2(1)

**Interpretation:** Where rating software allows for modeling of multiple or hybrid ventilation system types, the Reference Home mechanical ventilation fan energy shall be calculated proportionally using the ventilation system types employed in the Rated Home. The fan CFM contribution of each system type shall be proportional to the product of the airflow times the runtime of each ventilation system type.

### **Rationale:**

ANSI/RESNET/ICC Std 301-2014 does allow for software tools to model multiple concurrent ventilation strategies within a Rated Home. There is however a need to clarify how the mechanical ventilation fan energy shall be calculated for the Reference Home, which this Interpretation addresses. Quite simply, the Reference Home shall use the same strategies in the same proportions of the ventilation volume as are employed in the Rated Home.