

# **ANSI/RESNET/ ICC 380-2016**

## **Standard for Testing Airtightness of Building Enclosures, Airtightness of Heating and Cooling Air Distribution Systems, and Airflow of Mechanical Ventilation Systems**

American National Standard

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## SPECIAL NOTE

This ANSI/RESNET/ICC Standard is a voluntary consensus standard developed under the auspices of the Residential Energy Services Network (RESNET) in accordance with RESNET's *Standards Development Policy and Procedures Manual*, Version 1.1, January 2, 2012. RESNET is an American National Standards Institute (ANSI) Accredited Standards Developer. Consensus is defined by ANSI as "substantial agreement reached by directly and materially affected interest categories." This signifies the concurrence of more than a simple majority but not necessarily unanimity. Consensus requires that all views and objections be considered, and that an effort be made toward their resolution. Compliance with this Standard is voluntary until and unless a legal jurisdiction makes compliance mandatory.

RESNET obtains consensus through participation of its national members, associated societies, and public review.

This Standard is under continuous maintenance. In accordance with Section 10.9 of the *RESNET Standard Development Policy and Procedures Manual*, continuous maintenance proposals should be submitted to the Manager of Standards.

The Manager of Standards should be contacted for:

- a. Interpretation of the contents of this Standard
- b. Participation in the next review of the Standard
- c. Offering constructive criticism for improving the Standard
- d. Permission to reprint portions of the Standard

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# ANSI/RESNET/ICC 380-2016

## **Standard for Testing Airtightness of Building Enclosures, Airtightness of Heating and Cooling Air Distribution Systems, and Airflow of Mechanical Ventilation Systems**

### **Forward** (Informative)

Standard 380 has been developed to provide a consensus national standard for consistent measurement of several airflow-related residential building metrics. It builds on existing American National Standards to provide standard procedures essential to the evaluation of the energy performance of residential buildings.

This Standard provides a consistent, uniform methodology for evaluating the airtightness of building envelopes and heating and cooling air ducts and the airflows of mechanical ventilation systems. These test procedures can be used as building diagnostics, in quality assurance and control, for determining compliance with codes and standards and to determine input to energy simulations and ratings. The Standard recognizes that some test procedures are easier to perform depending on house and HVAC system characteristics and that different codes and standards have specific testing requirements. Therefore, the Standard presents several alternative approaches for each measurement to allow flexibility in application of the Standard.

This Standard is under continuous maintenance pursuant to RESNET's ANSI-accredited *Standards Development Policy and Procedures Manual* (<http://www.resnet.us/professional/standards/consensus>). Users are encouraged to propose changes. Forms and procedures for submitting change proposals may be found on RESNET's Website at [http://www.resnet.us/professional/standards/submitting\\_amendments](http://www.resnet.us/professional/standards/submitting_amendments). When proposed addenda are available for public review and when approved addenda are published, notices will be published on RESNET's Website.

This Standard contains both normative and informative material. Normative materials make up the body of the Standard and must be complied with to conform to the Standard. Informative materials are clearly marked as such, are not mandatory, and are limited to this forward, footnotes, references and annexes.