

**Name of the Tool** American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Standards & Guidelines

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**Logo**



**URL**

<https://www.ashrae.org/>

**Subject**

Building—America--Standards;  
Heat engineering—America--Standards;  
Air conditioning—America--Standards;  
Refrigeration and refrigerating machinery -- America Standards.

**Accessibility**

On subscription base (Partially free)

**Language**

English

**Publisher**

American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRE)

***Brief History***

**ASHRAE** stands for the American Society of Heating, Refrigerating and Air-Conditioning Engineers. Founded in 1894 at a meeting of engineers in New York City, it is a global society advancing human well-being through sustainable technology for the built environment. ASHRAE have formerly headquartered at 345 East 47th Street, and has held an annual meeting since 1895. Until 1954 it was known as the American Society of Heating and Ventilating Engineers (ASHVE); in that year it changed its name to the American Society of Heating and Air-Conditioning Engineers (ASHAE). Its current name and organization came from the 1959 merger of ASHAE and the American Society of Refrigerating Engineers (ASRE). The result, ASHRAE, despite having 'American' in its name, is an influential international organization. Amongst other international activities, it helps organize international events. In 2012, ASHRAE rebranded itself with a new logo and tagline: "Shaping Tomorrow's Built Environment Today". As of 2015, ASHRAE has more than 50,000 members.

***Scope and Coverage***

The ASHRAE and its more than 50,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. ASHRAE publishes a well recognized series of standards and guidelines relating to HVAC systems and issues. These standards are often referenced in building codes, and are considered useful standards for use by consulting engineers, mechanical contractors, architects, and government agencies. These are legally unenforceable, except when referenced as mandatory provisions in building codes, but are commonly accepted standards for architects and engineers. Examples of some ASHRAE Standards are: Standard 34 – Designation and Safety Classification of Refrigerants, Standard 55 – Thermal Environmental Conditions for Human Occupancy, Standard 62.1 – Ventilation for Acceptable Indoor Air Quality (versions: 2001 and earlier as "62", 2004 and beyond as "62.1"), Standard 62.2 – Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings, Standard 90.1 – Energy Standard for Buildings Except Low-Rise Residential Buildings – The IESNA is a joint sponsor of this standard, Standard 135 – BACnet - A Data Communication Protocol for Building Automation and Control Networks, Standard 189.1 – Standard for the Design of High Performance, Green Buildings Except Low-Rise Residential Buildings.

***Kind of Information***

ASHRAE writes standards for the purpose of establishing consensus for the methods of test for use in commerce and performance criteria for use as facilitators with which to guide the industry. ASHRAE publishes the three types of voluntary consensus standards: Method of Measurement or Test, Standard Design and Standard Practice. The website provides pdf file regarding the complete list of Standards and Guidelines currently offered by ASHRAE. By this list, one can find the title of the standard with number, current status, price (along with ASHRE member's price), product code etc.

***Special Features***

- ASHRAE was awarded Platinum Certification under the New Construction Version 2.2 rating system from USGBC’s LEED program.
- ASHRAE publishes ASHRAE Journal, a monthly magazine. It includes peer-reviewed articles on the practical application of HVAC&R technology, information on upcoming meetings and product shows, classified and display advertising, and editorials.
- ASHRAE also publishes 'High Performing Buildings Magazine' – a quarterly magazine is read by building owners, facility managers, architects and engineers who work on sustainable and efficient building projects.
- ASHRAE also publishes many books, 'ASHRAE Transactions', and the 'International Journal of HVAC&R Research'.
- ASHRAE supported the Streamlining Energy Efficiency for Schools Act of 2014 (H.R. 4092; 113th Congress), a bill that would require the United States Department of Energy to establish a centralized clearinghouse to disseminate information on federal programs, incentives, and mechanisms for financing energy-efficient retrofits and upgrades at schools.

***Arrangement Pattern***

The standards are listed numerically by the number associated with the title of those standards.

***Remarks***

The ASHRAE Standards are periodically reviewed, revised and published, so the year of publication of a particular standard is important for code compliance.

***Comparable Tools***

- American Society for Testing Materials (ASTM) International Standards (<https://www.astm.org/>)

***Date of Access***

March 7, 2017