

## CHAPTER 6 [CE]

# REFERENCED STANDARDS

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**User note:**

**About this chapter:** Chapter 6 lists the full title, edition year and address of the promulgator for all standards that are referenced in the code. The section numbers in which the standards are referenced are also listed.

This chapter lists the standards that are referenced in various sections of this document. The standards are listed herein by the promulgating agency of the standard, the standard identification, the effective date and title, and the section or sections of this document that reference the standard. The application of the referenced standards shall be as specified in Section 107.

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## AAMA

American Architectural Manufacturers Association  
1827 Walden Office Square  
Suite 550  
Schaumburg, IL 60173-4268

**AAMA/WDMA/CSA 101/I.S.2/A C440—17: North American Fenestration Standard/Specifications for Windows, Doors and Unit Skylights**

Table C402.5.2

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## AHAM

Association of Home Appliance Manufacturers  
1111 19th Street NW, Suite 402  
Washington, DC 20036

**ANSI/AHAM RAC-1—2008: Room Air Conditioners**

Table C403.3.2(3)

**AHAM HRF-1—2016: Energy, Performance and Capacity of Household Refrigerators, Refrigerator-Freezers and Freezers**

Table C403.10.1

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## AHRI

Air-Conditioning, Heating, & Refrigeration Institute  
2111 Wilson Blvd, Suite 500  
Arlington, VA 22201

**ISO/AHRI/ASHRAE 13256-1 (2017): Water-to-Air and Brine-to-Air Heat Pumps—Testing and Rating for Performance**

Table C403.3.2(2)

**ISO/AHRI/ASHRAE 13256-2 (2017): Water-to-Water and Brine-to-Water Heat Pumps —Testing and Rating for Performance**

Table C403.3.2(2)

**210/240—2016: Performance Rating of Unitary Air-conditioning and Air-source Heat Pump Equipment**

Table C403.3.2(1), Table C403.3.2(2)

**310/380—2014 (CSA-C744-04): Standard for Packaged Terminal Air Conditioners and Heat Pumps**

Table C403.3.2(3)

**340/360—2015: Performance Rating of Commercial and Industrial Unitary Air-conditioning and Heat Pump Equipment**

Table C403.3.2(1), Table C403.3.2(2)

**365(I-P)—2009: Commercial and Industrial Unitary Air-conditioning Condensing Units**

Table C403.3.2(1), Table C403.3.2(6)

**390 (I-P)—2015: Performance Rating of Single Package Vertical Air-conditioners and Heat Pumps**

Table C403.3.2(3)

**400 (I-P)—2015: Performance Rating of Liquid to Liquid Heat Exchangers**

Table C403.3.2(10)

**440—2008: Performance Rating of Room Fan Coils—with Addendum 1**

C403.11.3

**460—2005: Performance Rating of Remote Mechanical-draft Air-cooled Refrigerant Condensers**

Table C403.3.2(8)

## REFERENCED STANDARDS

### AHRI—continued

- 550/590 (I-P)—2015: Performance Rating of Water-chilling and Heat Pump Water-heating Packages Using the Vapor Compression Cycle**  
C403.3.2.1, Table C403.3.2(7)
- 560—00: Absorption Water Chilling and Water Heating Packages**  
Table C403.3.2(7)
- 1160 (I-P)—2014: Performance Rating of Heat Pump Pool Heaters**  
Table C404.2
- 1200 (I-P)—2013: Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets**  
C403.10, Table C403.10.1(1), Table C403.10.1(2)

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## AMCA

Air Movement and Control Association International  
30 West University Drive  
Arlington Heights, IL 60004-1806

- 205—12: Energy Efficiency Classification for Fans**  
C403.8.3
- 220—08 (R2012): Laboratory Methods of Testing Air Curtain Units for Aerodynamic Performance Rating**  
C402.5.6
- 500D—12: Laboratory Methods for Testing Dampers for Rating**  
C403.7.7

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## ANSI

American National Standards Institute  
25 West 43rd Street, 4<sup>th</sup> Floor  
New York, NY 10036

- Z21.10.3/CSA 4.3—11: Gas Water Heaters, Volume III—Storage Water Heaters with Input Ratings Above 75,000 Btu per Hour, Circulating Tank and Instantaneous**  
Table C404.2
- Z21.47/CSA 2.3—12: Gas-fired Central Furnaces**  
Table C403.3.2(4)
- Z83.8/CSA 2.6—09: Gas Unit Heaters, Gas Packaged Heaters, Gas Utility Heaters and Gas-fired Duct Furnaces**  
Table C403.3.2(4)

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## APSP

The Association of Pool & Spa Professionals  
2111 Eisenhower Avenue, Suite 580  
Alexandria, VA 22314

- 14—2014: American National Standard for Portable Electric Spa Energy Efficiency**  
C404.8

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## ASHRAE

ASHRAE  
1791 Tullie Circle NE  
Atlanta, GA 30329

- ASHRAE 127-2007: Method of Testing for Rating Computer**  
Table C403.3.2(9)
- ANSI/ASHRAE/ACCA Standard 183—2007 (RA2014): Peak Cooling and Heating Load Calculations in Buildings, Except Low-rise Residential Buildings**  
C403.1.1
- ASHRAE—2016: ASHRAE HVAC Systems and Equipment Handbook**  
C403.1.1
- ISO/AHRI/ASHRAE 13256-1 (2017): Water-to-Air and Brine-to-Air Heat Pumps—Testing and Rating for Performance**  
Table C403.3.2(2)
- ISO/AHRI/ASHRAE 13256-2 (2017): Water-to-Water and Brine-to-Water Heat Pumps—Testing and Rating for Performance**  
Table C403.3.2(2)

**ASHRAE—continued**

- 55—2013: Thermal Environmental Conditions for Human Occupancy**  
Table C407.5.1
- 90.1—2016: Energy Standard for Buildings Except Low-rise Residential Buildings**  
C401.2, Table C402.1.3, Table C402.1.4, C406.2, Table C407.6.1, C502.1, C503.1, C504.1
- 140—2014: Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs**  
C407.6.1
- 146—2011: Testing and Rating Pool Heaters**  
Table C404.2

**ASME**

American Society of Mechanical Engineers  
Two Park Avenue  
New York, NY 10016-5990

- ASME A17.1—2016/CSA B44—16: Safety Code for Elevators and Escalators**  
C405.8.2

**ASTM**

ASTM International  
100 Barr Harbor Drive, P.O. Box C700  
West Conshohocken, PA 19428-2959

- C90—14: Specification for Load-bearing Concrete Masonry Units**  
Table C401.3
- C1363—11: Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus**  
C303.1.4.1, Table C402.1.4, 402.2.7
- C1371—15: Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emisimeters**  
Table C402.3
- C1549—09(2014): Standard Test Method for Determination of Solar Reflectance Near Ambient Temperature Using a Portable Solar Reflectometer**  
Table C402.3
- D1003—13: Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics**  
C402.4.2.2
- E283—04(2012): Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen**  
C402.5.1.2.2, Table C402.5.2, C402.5.7
- E408—13: Test Methods for Total Normal Emittance of Surfaces Using Inspection-meter Techniques**  
Table C402.3
- E779—10: Standard Test Method for Determining Air Leakage Rate by Fan Pressurization**  
C402.5
- E903—12: Standard Test Method Solar Absorptance, Reflectance and Transmittance of Materials Using Integrating Spheres (Withdrawn 2005)**  
Table C402.3
- E1677—11: Specification for Air Barrier (AB) Material or Systems for Low-rise Framed Building Walls**  
C402.5.1.2.2
- E1827—11: Standard Test Methods for Determining Airtightness of Building Using an Orifice Blower Door**  
C402.5, C406.9, C606.4
- E1918—06(2015): Standard Test Method for Measuring Solar Reflectance of Horizontal or Low-sloped Surfaces in the Field**  
Table C402.3
- E1980—11: Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-sloped Opaque Surfaces**  
Table C402.3, C402.3.2
- E2178—13: Standard Test Method for Air Permanence of Building Materials**  
C402.5.1.2.1

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ASTM—continued

**E2357—11: Standard Test Method for Determining Air Leakage of Air Barriers Assemblies**  
C402.5.1.2.2

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**CRRC**

Cool Roof Rating Council  
449 15th Street, Suite 400  
Oakland, CA 94612

**ANSI/CRRC-S100—2016: Standard Test Methods for Determining Radiative Properties of Materials**  
Table C402.3, C402.3.1

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**CSA**

CSA Group  
8501 East Pleasant Valley Road  
Cleveland, OH 44131-5516

**AAMA/WDMA/CSA 101/LS.2/A440—17: North American Fenestration Standard/Specification for Windows, Doors and Unit Skylights**  
Table C402.5.2

**CSA B55.1—2015: Test Method for Measuring Efficiency and Pressure Loss of Drain Water Heat Recovery Units**  
C404.8

**CSA B55.2—2015: Drain Water Heat Recovery Units**  
C404.8

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**CTI**

Cooling Technology Institute  
P. O. Box 681807  
Houston, TX 77268

**ATC 105 (00): Acceptance Test Code for Water Cooling Tower**  
Table C403.3.2(8)

**ATC 105S—11: Acceptance Test Code for Closed Circuit Cooling Towers**  
Table C403.3.2(8)

**ATC 106—11: Acceptance Test for Mechanical Draft Evaporative Vapor Condensers**  
Table C403.3.2(8)

**STD 201—11: Standard for Certification of Water Cooling Towers Thermal Performances**  
Table C403.3.2(8)

**CTI STD 201 RS(15): Performance Rating of Evaporative Heat Rejection Equipment**  
Table C403.3.2(8)

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**DASMA**

Door & Access Systems Manufacturers Association, International  
1300 Sumner Avenue  
Cleveland, OH 44115-2851

**105—2016: Test Method for Thermal Transmittance and Air Infiltration of Garage Doors and Rolling Doors**  
C303.1.3, Table C402.5.2

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**DOE**

U.S. Department of Energy  
c/o Superintendent of Documents  
1000 Independence Avenue SW  
Washington, DC 20585

**10 CFR, Part 430—2015: Energy Conservation Program for Consumer Products: Test Procedures and Certification and Enforcement Requirement for Plumbing Products; and Certification and Enforcement Requirements for Residential Appliances; Final Rule**  
Table C403.3.2(4), Table C403.3.2(5), Table C404.2

DOE—continued

**10 CFR, Part 430, Subpart B, Appendix N—(2015): Uniform Test Method for Measuring the Energy Consumption of Furnaces and Boilers**

C202

**10 CFR, Part 431—2015: Energy Efficiency Program for Certain Commercial and Industrial Equipment: Test Procedures and Efficiency Standards; Final Rules**

Table C403.3.2(5), C405.6, Table C405.6, C405.7

**10 CFR 431 Subpart B App B: Uniform Test Method for Measuring Nominal Full Load Efficiency of Electric Motors**

C403.8.4, Table C405.7(1), Table C405.7(2), Table C405.7(3), C405.7(4)

**NAECA 87—(88): National Appliance Energy Conservation Act 1987 [Public Law 100-12 (with Amendments of 1988-P.L. 100-357)]**

Table C403.3.2(1), Table C403.3.2(2), Table C403.3.2(4)

**ICC**

International Code Council, Inc.  
500 New Jersey Avenue NW  
6th Floor  
Washington, DC 20001

**IBC—18: International Building Code®**

C201.3, C303.2, C402.5.3, C501.4

**IFC—18: International Fire Code®**

C201.3, C501.4

**IFGC—18: International Fuel Gas Code®**

C201.3, C501.4

**IMC—18: International Mechanical Code®**

C403.7.7, C403.2.2, C403.7.1, C403.7.2, C403.7.4, C403.7.5, C403.11.1, C403.11.2.1, C403.11.2.2, C403.6, C403.6.6, C406.6, C501.4

**IPC—18: International Plumbing Code®**

C201.3, C501.4

**IPMC—18: International Property Maintenance Code®**

C501.4

**IPSDC—18: International Private Sewage Disposal Code®**

C501.4

**IEEE**

Institute of Electrical and Electronic Engineers  
3 Park Avenue, 17<sup>th</sup> Floor  
New York, NY 10016

**IEEE 515.1—2012: IEE Standard for the Testing, Design, Installation, and Maintenance of Electrical Resistance Trace Heating for Commercial Applications**

C404.6.2

**IES**

Illuminating Engineering Society  
120 Wall Street, 17th Floor  
New York, NY 10005-4001

**ANSI/ASHRAE/IESNA 90.1—2016: Energy Standard for Buildings, Except Low-rise Residential Buildings**

C401.2, Table C402.1.3, Table C402.1.4, C406.2, C502.1, C503.1, C504.1

**ISO**

International Organization for Standardization  
Chemin de Blandonnet 8, CP 401, 1214 Vernier  
Geneva, Switzerland

**ISO/AHRI/ASHRAE 13256-1(2017): Water-to-Air and Brine-to-Air Heat Pumps -Testing and Rating for Performance**

Table C403.3.2(2)

**ISO/AHRI/ASHRAE 13256-2(2017): Water-to-Water and Brine-to-Water Heat Pumps -Testing and Rating for Performance**

C403.3.2(2)

## REFERENCED STANDARDS

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### NEMA

National Electrical Manufacturers Association  
1300 North 17th Street, Suite 900  
Rosslyn, VA 22209

**MG1—2014: Motors and Generators**  
C202

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### NFPA

National Fire Protection Association  
1 Batterymarch Park  
Quincy, MA 02169-7471

**70—17: National Electrical Code**  
C501.4

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### NFRC

National Fenestration Rating Council, Inc.  
6305 Ivy Lane, Suite 140  
Greenbelt, MD 20770

**100—2017: Procedure for Determining Fenestration Products *U*-factors**  
C303.1.3, C402.2.1.1

**200—2017: Procedure for Determining Fenestration Product Solar Heat Gain Coefficients and Visible Transmittance at Normal Incidence**  
C303.1.3, C402.4.1.1

**400—2017: Procedure for Determining Fenestration Product Air Leakage**  
Table C402.5.2

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### SMACNA

Sheet Metal and Air Conditioning Contractors' National Association, Inc.  
4021 Lafayette Center Drive  
Chantilly, VA 20151-1219

**SMACNA—2012: HVAC Air Duct Leakage Test Manual Second Edition**  
C403.2.11.2.3

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### UL

UL LLC  
333 Pfingsten Road  
Northbrook, IL 60062-2096

**710—12: Exhaust Hoods for Commercial Cooking Equipment—with Revisions through November 2013**  
C403.7.5

**727—06: Oil-fired Central Furnaces—with Revisions through October 2013**  
Table C403.3.2(4)

**731—95: Oil-fired Unit Heaters—with Revisions through October 2013**  
Table C403.3.2(4)

**1784—01: Air Leakage Tests of Door Assemblies—with Revisions through February 2015**  
C402.5.3

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### US-FTC

United States-Federal Trade Commission  
600 Pennsylvania Avenue NW  
Washington, DC 20580

**CFR Title 16 (2015): R-value Rule**  
C303.1.4

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**WDMA**

Window and Door Manufacturers Association  
2025 M Street NW, Suite 800  
Washington, DC 20036-3309

**AAMA/WDMA/CSA 101/I.S.2/A440—17: North American Fenestration Standard/Specification for Windows, Doors and Unit Skylights**  
Table C402.5.2