

## CHAPTER 6 CE

# REFERENCED STANDARDS

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 106.

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

Standard reference number	Title	Referenced in code section number
AAMA/WDMA/CSA 101/I.S.2/A C440—17	North American Fenestration Standard/ Specifications for Windows, Doors and Unit Skylights . . . . .	Table C402.4, C402.4.1.1.2

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

Standard reference number	Title	Referenced in code section number
ANSI/AHAM RAC-1—2008	Room Air Conditioners . . . . .	Table C403.3.2(3)
AHAM HRF-1—2017	Household Refrigerators, Refrigerator-Freezers and Freezers. . . . .	Table C4410.1(1)(3)

**AHRI** Air Conditioning, Heating, and Refrigeration Institute  
 4100 North Fairfax Drive  
 Suite 200  
 Arlington, VA 22203

Standard reference number	Title	Referenced in code section number
ISO/AHRI/ASHRAE 13256-1 (2017)	Water-source Heat Pumps—Testing and Rating for Performance— Part 1: Water-to-air and Brine-to-air Heat Pumps Table C403.3.2(2)	
ISO/AHRI/ASHRAE 13256-2 (2017)	Water-source Heat Pumps—Testing and Rating for Performance—Part 2: Water-to-water and Brine-to-water Heat Pumps Table C403.3.2(2)	
210/240—2016	Unitary Air Conditioning and Air-source Heat Pump Equipment. . . . .	Table C403.3.2(1), Table C403.3.2(2)
310/380—2014	Standard for Packaged Terminal Air Conditioners and Heat Pumps. . . . .	Table C403.3.2(3)
340/360—2015	Commercial and Industrial Unitary Air-conditioning and Heat Pump Equipment . . . . .	Table C403.3.2(1), Table C403.3.2(2)
365—09	Commercial and Industrial Unitary Air-conditioning Condensing Units . . . . .	Table C403.3.2(1), Table C403.3.2(6)
390—2011	Performance Rating of Single Package Vertical Air Conditioners and Heat Pumps. . . . .	Table C403.3.2(3)
400—01	Liquid to Liquid Heat Exchangers with Addendum 2 . . . . .	Table C403.3.2(9)
440—08	Room Fan Coil . . . . .	C403.10.3
460—05	Performance Rating Remote Mechanical Draft Air-cooled Refrigerant Condensers . . . . .	Table C403.3.2(8)
550/590—03	Water Chilling Packages Using the Vapor Compression Cycle— with Addenda . . . . .	C403.3.2.1, Table C403.3.2(7)
560—00	Absorption Water Chilling and Water-heating Packages . . . . .	Table C403.3.2(7)
920—15	Performance Rating of DX-Dedicated Outdoor Air System Units . . . . .	Table C403.3.2(11), Table C403.3.2(12)

**REFERENCED STANDARDS**

**AHRI—continued**

1160—2014	Performance Rating of Heat Pump Pool Heaters . . . . .	Table C404.2
1200—2014	Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets. . . . .	C410.1.1, Table C410.1.1(1) Table C410.1.1(2)

**AMCA**

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

Standard reference number	Title	Referenced in code section number
205-12	Energy Efficiency Classification for Fans . . . . .	C403.8.3, C406.2.3
220-08 (R2012)	Laboratory Methods of Testing Air Curtain Units . . . . .	C402.5.6
500D—10	Laboratory Methods for Testing Dampers for Rating . . . . .	C403.7.8.3

**ANSI**

American National Standards Institute  
25 West 43rd Street  
Fourth Floor  
New York, NY 10036

Standard reference number	Title	Referenced in code section number
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)

**APSP**

The Association of Pool and Spa Professionals  
2111 Eisenhower Avenue  
Alexandria, VA 22314

Standard reference number	Title	Referenced in code section number
14-2014	American National Standard for Portable Electric Spa Efficiency. . . . .	C404.8

**ASHRAE**

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.  
1791 Tullie Circle, NE  
Atlanta, GA 30329-2305

Standard reference number	Title	Referenced in code section number
ANSI/ASHRAE/ACCA Standard 127-2007	Method of Testing for Rating Computer and Data Processing Room Unitary Air Conditioners. . . . .	C403.4.1
Standard 183—2007	Peak Cooling and Heating Load Calculations in Buildings, Except Low-rise Residential Buildings . . .	C403.1.2
<u>ANSI/ASHRAE/ASHE</u> Standard 170-2017	<u>Ventilation of Health Care Facilities . . . . .</u>	<u>C403.1.1</u>
ASHRAE—2016	ASHRAE HVAC Systems and Equipment Handbook—2004. . . . .	C403.1.2
ISO/AHRI/ASHRAE 13256-1 (2011)	Water-source Heat Pumps—Testing and Rating for Performance— Part 1: Water-to-air and Brine-to-air Heat Pumps . . . . .	Table C403.3.2(2)
ISO/AHRI/ASHRAE 13256-2 (2011)	Water-source Heat Pumps—Testing and Rating for Performance— Part 2: Water-to-water and Brine-to-water Heat Pumps. . . . .	Table C403.3.2(2)
90.1—( <del>2016</del> ) 2019	Energy Standard for Buildings Except Low-rise Residential Buildings. . . . .	C402.1.5.1, C407.3

ASHRAE—continued

90.4—((2016)) 2019	Energy Standard for Data Centers . . . . .	C403.1.3
146—2011	Testing and Rating Pool Heaters . . . . .	Table C404.2

**ASME**

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

Standard reference number	Title	Referenced in code section number
ASME A17.1/ CSA B44—2016	Safety Code for Elevators and Escalators . . . . .	C405.9.2

**ASTM**

ASTM International  
100 Barr Harbor Drive  
West Conshohocken, PA 19428-2859

Standard reference number	Title	Referenced in code section number
C 90—14	Specification for Load-bearing Concrete Masonry Units . . . . .	Table C402.1.3
C 518—17	Standard Test Method for Steady-State Thermal Transmission Properties By Means of the Heat Flow Meter Apparatus . . . . .	Table C403.10.1.1
C 1371—11	Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers . . . . .	C303.1.4.1, Table C402.1.4
D 1003—13	Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics . . . . .	C402.4.2.2
E 283—04	Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen . . . . .	C402.5.8,
E779—10	Standard Test Method for Determining Air Leakage Rate by Fan Pressurization . . . . .	C402.5.1.2, C406.11.1

**CSA**

Canadian Standards Association  
5060 Spectrum Way  
Mississauga, Ontario, Canada L4W 5N6

Standard reference number	Title	Referenced in code section number
AAMA/WDMA/CSA 101/I.S.2/A440—17	North American Fenestration Standard/Specification for Windows, Doors and Unit Skylights . . . . .	Table C402.4, C402.4.1.1.2
CSA B55.1—2012	Test Method for Measuring Efficiency and Pressure Loss of DWHR Units . . . . .	C404.10
CSA B55.2—2012	Drain Water Heat Recovery Units . . . . .	C404.10

**CTI**

Cooling Technology Institute  
2611 FM 1960 West, Suite A-101  
Houston, TX 77068

Standard reference number	Title	Referenced in code section number
ATC 105 (00)	Acceptance Test Code for Water Cooling Tower . . . . .	Table C403.3.2(8)
ATC 105S—2011	Acceptance Test Code for Closed Circuit Cooling Towers . . . . .	Table C403.3.2(8)
ATC 106—2011	Acceptance Test for Mechanical Draft Evaporative Vapor Condensers . . . . .	Table C403.3.2(8)
STD 201 RS(15)	Standard for Certification of Water Cooling Towers Thermal Performances . . . . .	Table C403.3.2(8)

**REFERENCED STANDARDS**

**DASMA** Door and Access Systems Manufacturers Association  
1300 Sumner Avenue  
Cleveland, OH 44115-2851

Standard reference number	Title	Referenced in code section number
105—92 (R2004)—13	Test Method for Thermal Transmittance and Air Infiltration of Garage Doors . . . . .	C303.1.3

**DOE** U.S. Department of Energy  
c/o Superintendent of Documents  
U.S. Government Printing Office  
Washington, DC 20402-9325

Standard reference number	Title	Referenced in code section number
10 CFR, Part 430—1998	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
10 CFR, Part 430, Subpart B, Appendix N—1998	Uniform Test Method for Measuring the Energy Consumption of Furnaces and Boilers. . . . .	C202
10 CFR, Part 431—2004	Energy Efficiency Program for Certain Commercial and Industrial Equipment: Test Procedures and Efficiency Standards; Final Rules . . . . .	Table C403.3.2(5), Table C406.2(5)
NAECA 87—(88)	National Appliance Energy Conservation Act 1987 [(Public Law 100-12 (with Amendments of 1988-P.L. 100-357))] . . . . .	Tables C403.3.2(1), (2), (4)

**HVI** Home Ventilating Institute  
1740 Dell Range Blvd., Ste H.450  
Cheyenne, WY 82009

<u>Standard reference number</u>	<u>Title</u>	<u>Referenced in code section number</u>
<u>HVI 916—2015</u>	<u>Home Ventilating Institute Airflow Test Procedure 916-2015. . . . .</u>	<u>C403.8.4</u>
<u>HVI 920—2020</u>	<u>Product Performance Certification Procedure Including Verification and Challenge 920-2020 . . . . .</u>	<u>C403.3.6</u>

**IAPMO** International Association of Plumbing and Mechanical Officials  
4755 E. Philadelphia Street  
Ontario, CA 91761

Standard reference number	Title	Referenced in code section number
UPC—2018	Uniform Plumbing Code . . . . .	C201.3, C501.4

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

Standard reference number	Title	Referenced in code section number
IBC—18	International Building Code . . . . .	C201.3, C303.1.1, C303.2, C402.5.3, C402.5.4 Table C403.3.5, C405.2.1.5, C405.2.5, C411.4, C501.4
IEBC—18	International Existing Building Code . . . . .	C201.3, 501.4

IFC—18	International Fire Code . . . . .	C201.3, C411.1, C411.6, C501.4
IFGC—18	International Fuel Gas Code. . . . .	C201.3, C501.4
IMC—18	International Mechanical Code . . . . .	C106.3, C201.3, C402.5.3, C403.2.2.1, C403.2.2.2
		C403.3.5, C403.3.5.1, C403.6.1, C403.6.5, C403.6.10, C403.7.1, C403.7.2, C403.7.5, C403.7.5.1, C403.7.6, C403.7.7.3, C403.7.8, C403.7.8.4, C403.8.4, C403.8.5.1, C403.9.2.4.2, C403.10.1.1, Table C403.10.1.1, C403.10.1.2, Table C403.10.1.2, C403.10.2, C403.10.2.1, C403.10.2.2, C403.12, C406.6, C408.2.2.1, C501.4

**IEEE** The Institute of Electrical and Electronic Engineers  
 Three Park Avenue  
 New York, NY 10016

Standard reference number	Title	Referenced in code section number
IEEE 515.1—2012	Standard for the Testing, Design, Installation and Maintenance of Electrical Resistance Trace Heating for Commercial Applications . . . . .	C404.6.2

**IESNA** Illuminating Engineering Society of North America  
 120 Wall Street, 17th Floor  
 New York, NY 10005-4001

Standard reference number	Title	Referenced in code section number
ANSI/ASHRAE/IESNA 90.1—2016	Energy Standard for Buildings Except Low-rise Residential Buildings . . . . .	C402.1.5.1, C407.3

**ISO** International Organization for Standardization  
 1, rue de Varembe, Case postale 56, CH-1211  
 Geneva, Switzerland

Standard reference number	Title	Referenced in code section number
ISO/AHRI/ASHRAE 13256-1 (2017)	Water-source Heat Pumps—Testing and Rating for Performance— Part 1: Water-to-air and Brine-to-air Heat Pumps . . . . .	Table C403.3.2(2)
ISO/AHRI/ASHRAE 13256-2 (2017)	Water-Source Heat Pumps—Testing and Rating for Performance— Part 2: Water-to-water and Brine-to-water Heat Pumps . . . . .	Table C403.3.2(2)

**NEMA** National Electric Manufacturer’s Association  
 1300 North 17th Street  
 Suite 1753  
 Rosslyn, VA 22209

Standard reference number	Title	Referenced in code section number
MG1—2014	Motors and Generators . . . . .	C202

**REFERENCED STANDARDS**

**NFRC**

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

Standard reference number	Title	Referenced in code section number
100—2017	Procedure for Determining Fenestration Products U-factors—Second Edition	C303.1.2, C402.2.1
200—2017	Procedure for Determining Fenestration Product Solar Heat Gain Coefficients and Visible Transmittance at Normal Incidence—Second Edition	C303.1.3, C402.3.1.1
202—2017	Procedure for Determining Fenestration Product Visible Transmittance at Normal Incidence	C202
203—2017	Procedure for Determining Visible Transmittance of Tubular Daylighting Devices	C202, C402.4.2

**SMACNA**

Sheet Metal and Air Conditioning Contractors National Association, Inc.  
4021 Lafayette Center Drive  
Chantilly, VA 20151-1209

Standard reference number	Title	Referenced in code section number
SMACNA—2012	HVAC Air Duct Leakage Test Manual	C403.10.2.3

**UL**

Underwriters Laboratories  
333 Pfingsten Road  
Northbrook, IL 60062-2096

Standard reference number	Title	Referenced in code section number
710—12	Exhaust Hoods for Commercial Cooking Equipment	C403.7.7.1.2, C403.7.7.1.3
727—06	Oil-fired Central Furnaces—with Revisions through April 2010	Table C403.3.2(4)
731—95	Oil-fired Unit Heaters—with Revisions through April 2010	Table C403.3.2(4)

**US-FTC**

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

Standard reference number	Title	Referenced in code section number
CFR Title 16	R-value Rule	C303.1.4 (2015)

**WDMA**

Window and Door Manufacturers Association  
1400 East Touhy Avenue, Suite 470  
Des Plaines, IL 60018

Standard reference number	Title	Referenced in code section number
AAMA/WDMA/CSA 101/I.S.2/A440—11	North American Fenestration Standard/Specification for Windows, Doors and Unit Skylights	Table C402.4, C402.4.1.1.2