

CHAPTER 6 [CE]

REFERENCED STANDARDS

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 108.

AAMA

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

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

Table C402.5.5

AHAM

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

ANSI/AHAM RAC-1—2015: Room Air Conditioners

Table C403.3.2(4)

AHRI

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

210/240—2017 and 2023: Performance Rating of Unitary Air-conditioning and Air-source Heat Pump Equipment

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

310/380—2017 (CSA-C744-17): Packaged Terminal Air Conditioners and Heat Pumps

Table C403.3.2(4)

340/360—2019: 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)

390 (I-P)—2003: 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

C403.3.2

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

C403.12.3

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

Table C403.3.2(7)

550/590 (I-P)—2018: Performance Rating of Water-chilling and Heat Pump Water-heating Packages Using the Vapor Compression Cycle

Table C403.3.2(3), Table C403.3.2(15)

560—2018: Absorption Water Chilling and Water Heating Packages

Table C403.3.2(3)

910—2014: Performance Rating of Indoor Pool Dehumidifiers

Table C403.3.2(11)

REFERENCED STANDARDS

AHRI—continued

920—2015: Performance Rating of DX-Dedicated Outdoor Air System Units

Table C403.3.2(12) , Table C403.3.2(13)

1160 (I-P)—2014: Performance Rating of Heat Pump Pool Heaters (with Addendum 1)

Table C404.2

1200 (I-P)—2013: Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets

Table C403.11.1

1230—2014: Performance Rating of Variable Refrigerant Flow (VRF) Multi-split Air-Conditioning and Heat Pump Equipment (with Addendum 1)

Table C403.3.2(9)

1250 (I-P)—2014: Standard for Performance Rating in Walk-in Coolers and Freezers

Table C403.11.2.1(3)

1360—2017: Performance Rating of Computer and Data Processing Room Air Conditioners

Table C403.3.2(10) , Table C403.3.2(16)

ISO/AHRI/ASHRAE 13256-1 (2012): Water-to-Air and Brine-to-Air Heat Pumps—Testing and Rating for Performance

Table C403.3.2(14)

AMCA

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

208—18: Calculation of the Fan Energy Index

C403.8.3

220—19: Laboratory Methods of Testing Air Curtain Units for Aerodynamic Performance Rating

C402.5.9

230—15: Laboratory Methods of Testing Air Circulating Fans for Rating and Certification

C403.9

500D—18: Laboratory Methods for Testing Dampers for Rating

C403.7.7

ANSI

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

Z21.10.3/CSA 4.3—17: 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—16: Gas-fired Central Furnaces

Table C403.3.2(4)

Z83.8/CSA 2.6—16: Gas Unit Heaters, Gas Packaged Heaters, Gas Utility Heaters and Gas-fired Duct Furnaces

Table C403.3.2(4)

APSP

Pool & Hot Tub Alliance (formerly the Association of Pool and Spa Professionals)
2111 Eisenhower Avenue, Suite 580
Alexandria, VA 22314

14—2019: American National Standard for Portable Electric Spa Energy Efficiency

C404.7

ASABE

American Society of Agricultural and Biological Engineers
2950 Niles Road
St. Joseph, MI 49085

S640—2017: Quantities and Units of Electromagnetic Radiation for Plants (Photosynthetic Organisms)

C405.4

ASHRAE

ASHRAE
180 Technology Parkway NW
Peachtree Corners, GA 30092

55—2017: Thermal Environmental Conditions for Human Occupancy

Table C407.4.1(1)

90.1—2019: Energy Standard for Buildings Except Low-rise Residential Buildings

C402.1.4, C406.2

90.4—2016: Energy Standard for Data Centers

C403.1.2, C405.2.4

140—2014: Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs

C407.5.1

146—2011: Testing for Rating Pool Heaters

Table C404.2

ANSI/ASHRAE/ACCA Standard 183—(RA2017): Peak Cooling and Heating Load Calculations in Buildings, Except Low-rise Residential Buildings

C403.1.1

ASHRAE—2020: HVAC Systems and Equipment Handbook—2020

C403.1.1

ISO/AHRI/ASHRAE 13256-1 (2012): Water-to-Air and Brine-to-Air Heat Pumps—Testing and Rating for Performance

Table C403.3.2(14)

ISO/AHRI/ASHRAE 13256-2 (2012): Water-to-Water and Brine-to-Water Heat Pumps—Testing and Rating for Performance

Table C403.3.2(14)

ASME

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

ASME A17.1—2019/CSA B44—19: Safety Code for Elevators and Escalators

C405.9.2

ASTM

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

C90—2016A: Specification for Load-bearing Concrete Masonry Units

Table C402.1.3

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 Emitters

Table C402.3

C1549—2016: 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

D8052/D8052M—2017: Standard Test Method for Quantification of Air Leakage in Low-Sloped Membrane Roof Assemblies

C402.5.2.1.2

E283—2004(2012): Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen

C402.5.2.1.2, Table C402.5.5, C402.5.11

E408—13: Test Methods for Total Normal Emittance of Surfaces Using Inspection-meter Techniques

Table C402.3

REFERENCED STANDARDS

ASTM—continued

- E779—10(2018): Standard Test Method for Determining Air Leakage Rate by Fan Pressurization**
C402.5.3, C402.5.4, C406.9
- E903—2012: 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**
C402.5.2.1.2
- E1827—2011(2017): Standard Test Methods for Determining Airtightness of Building Using an Orifice Blower Door**
C402.5.3, C402.5.4, C406.9
- E1918—06(2016): 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
- E2178—13: Standard Test Method for Air Permanence of Building Materials**
C402.5.2.1.1
- E2357—2018: Standard Test Method for Determining Air Leakage of Air Barriers Assemblies**
C402.5.2.1.2
- F1281—2017: Specification for Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene (PEX-AL_PEX) Pressure Pipe**
Table C404.5.2.1
- F1361—2017: Standard Test Method for Performance of Open Deep Fat Fryers**
Table C406.12(1)
- F1484—2018: Standard Test Method for Performance of Steam Cookers**
Table C406.12(2)
- F1495—2014a: Standard Specification for Combination Oven Electric or Gas Fired**
Table C406.12(4)
- F1496—2013: Standard Test Method for Performance of Convection Ovens**
Table C406.12(4)
- F1696—2018: Standard Test Method for Energy Performance of Stationary-Rack, Door-Type Commercial Dishwashing Machines**
Table C406.12(3)
- F1920—2015: Standard Test Method for Performance of Rack Conveyor Commercial Dishwashing Machines**
Table C406.12(3)
- F2093—2018: Standard Test Method for Performance of Rack Ovens**
Table C406.12(4)
- F2144—2017: Standard Test Method for Performance of Large Open Vat Fryers**
Table C406.12(1)
- F2861—2017: Standard Test Method for Enhanced Performance of Combination Oven in Various Modes**
Table C406.12(4)

CRRC

Cool Roof Rating Council
2435 North Lombard Street
Portland, OR 97217

- ANSI/CRRC-S100—2020: Standard Test Methods for Determining Radiative Properties of Materials**
Table C402.3, C402.3.1

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 C402.5.5
- CSA B55.1—2015: Test Method for Measuring Efficiency and Pressure Loss of Drain Water Heat Recovery Units**
C404.7
- CSA B55.2—2015: Drain Water Heat Recovery Units**
C404.7

CTI

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

- ATC 105—2019: Acceptance Test Code for Water Cooling Tower**
Table C403.3.2(7)
- ATC 105DS—2018: Acceptance Test Code for Dry Fluid Coolers**
Table C403.3.2(7)
- ATC 105S—11: Acceptance Test Code for Closed Circuit Cooling Towers**
Table C403.3.2(7), Table C403.3.2(8)
- ATC 106—11: Acceptance Test for Mechanical Draft Evaporative Vapor Condensers**
Table C403.3.2(7), Table C403.3.2(8)
- CTI STD 201 RS(17): Performance Rating of Evaporative Heat Rejection Equipment**
Table C403.3.2(7), Table C403.3.2(8)

DASMA

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

- 105—2017: Test Method for Thermal Transmittance and Air Infiltration of Garage Doors and Rolling Doors**
C303.1.3, Table C402.5.5

DOE

US 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(1), Table C403.3.2(2), Table C403.3.2(5), Table C403.3.2(6), Table C403.3.2(14),
Table C404.2
- 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(6), C403.8.4, C403.11, C403.11.1, Table C403.11.1, C403.11.2, C405.7, Table
C405.7, C405.8, Table C405.8(1), Table C405.8(2), Table C405.8(3), Table C405.8(4)

ICC

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

- IBC—21: International Building Code®**
C201.3, C303.2, C402.5.6, C501.2
- ICC 500—2020: Standard for the Design and Construction of Storm Shelters**
C402.4.2
- IFC—21: International Fire Code®**
C201.3, C501.2
- IFGC—21: International Fuel Gas Code®**
C201.3, C501.2
- IMC—21: International Mechanical Code®**
C403.2.2, C403.6, C403.6.6, C403.7.1, C403.7.2, C403.7.4.2, C403.7.5, C403.7.7, C403.12.1,
C403.12.2.1, C403.12.2.2, C406.6, C501.2
- IPC—21: International Plumbing Code®**
C201.3, C501.2
- IPMC—21: International Property Maintenance Code®**
C501.2
- IPSDC—21: International Private Sewage Disposal Code®**
C501.2

REFERENCED STANDARDS

IEEE

Institute of Electrical and Electronic Engineers
3 Park Avenue, 17th 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—2019: 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(14)

ISO/AHRI/ASHRAE 13256-2(2017): Water-to-Water and Brine-to-Water Heat Pumps—Testing and Rating for Performance
Table C403.3.2(14)

NEMA

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

MG1—2016: Motors and Generators
C202

NFPA

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

70—20: National Electrical Code
C501.2

NFRC

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

100—2020: Procedure for Determining Fenestration Products *U*-factors
C303.1.3, Table 402.1.4, C402.2.1.5, C402.4.1.1

200—2020: Procedure for Determining Fenestration Product Solar Heat Gain Coefficients and Visible Transmittance at Normal Incidence
C303.1.3, C402.4.1.1

203—2017: Procedure for Determining Translucent Fenestration Product Visible Transmittance at Normal Incidence
C303.1.3

400—2020: Procedure for Determining Fenestration Product Air Leakage
Table C402.5.5

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
C403.12.2.3

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—18: Oil-fired Central Furnaces

Table C403.3.2(4), Table C403.3.2(5)

731—18: Oil-fired Unit Heaters

Table C403.3.2(5)

1784—15: Air Leakage Tests of Door Assemblies—with Revisions through February 2015

C402.5.6, C402.5.7

US-FTC

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

CFR Title 16 (2015): R-value Rule

C303.1.4

WDMA

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

AAMA/WDMA/CSA 101/IS.2/A440—17: North American Fenestration Standard/Specification for Windows, Doors and Unit

Skylights

Table C402.5.5