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.

AABC

Associated Air Balance Council

1518 K Street, Suite 503

Washington, DC 20005

Standard Referenced   
reference in code  
number Title section number

AABC, 1989 Associated Air Balance Council National Standards C408.2.2.1

AAMA

American Architectural Manufacturers Association

1827 Walden Office Square

Suite 550

Schaumburg, IL 60173-4268

Standard Referenced   
reference in code  
number Title section number

AAMA/WDMA/CSA  
101/I.S.2/A 440—11 or 17 North American Fenestration Standard/  
  Specifications for Windows, Doors and Unit Skylights Table C402.5.2

ACCA

Air Conditioning Contractors of America

2800 Shirlington Road, Suite 300

Arlington, VA 22206

Standard Referenced   
reference in code  
number Title section number

ACCA Manual D—1995 Residential Duct Systems C403.2.9.5

ACCA Manual N—2005 Commercial Load Calculation C403.2.1

ANSI/ASHRAE/ Peak Cooling and Heating Load Calculations in Buildings

ACCA 183—2014  Except Low-rise Residential Buildings C403.2.1

ADC

Air Duct Council

1901 N. Roselle Rd., Suite 800

Schaumburg, IL 60195

Standard Referenced   
reference in code  
number Title section number

ADC—2003 Flexible Duct Performance & Installation Standards, Fourth Edition Table C403.2.9.2

AHAM

Association of Home Appliance Manufacturers

1111 19th Street, NW, Suite 402

Washington, DC 20036

Standard Referenced   
reference in code  
number Title section number

ANSI/  
AHAM RAC-1—~~2008~~2015 Room Air Conditioners Table C403.2.3(3)

AHRI

Air-Conditioning, Heating, & Refrigeration Institute

2111 Wilson Blvd, Suite 500

Arlington, VA 22201

Standard Referenced   
reference in code  
number Title section number

ISO/AHRI/ASHRAE

13256-1 (~~2011)~~ 2012 Water-to-Air and Brine-to-Air Heat Pumps—  
  Testing and Rating for Performance Table C403.2.3(2)

ISO/AHRI/ASHRAE   
13256-2 (~~2011~~) 2012 Water-to-Water and Brine-to-Water Heat Pumps —  
  Testing and Rating for Performance Table C403.2.3(2)

210/~~240—2016~~ 240—2017 Performance Rating of Unitary Air-Conditioning and Air-Source  
  Heat Pump Equipment Table C403.2.3(1), Table C403.2.3(2)

310/~~380—2014~~ 380—2017 (~~CSA-C744-04~~ CSA-C744- 17**)**  Standard for Packaged Terminal Air Conditioners and Heat Pumps Table C403.2.3(3)

340/360—2015 Performance Rating of Commercial and Industrial Unitary  
  Air-Conditioning and Heat Pump Equipment Table C403.2.3(1), Table C403.2.3(2)

365(I-P)—09 Commercial and Industrial Unitary Air-Conditioning  
  Condensing Units Table C403.2.3(1), Table C403.2.3(6)

390 (I-P)~~—2015~~ —2003 Performance Rating of Single Package Vertical Air-Conditioners   
  and Heat Pumps Table C403.2.3(3)

400—(I-P) 2015 Performance Rating of Liquid to Liquid Heat Exchangers Table C403.2.3(10)

440—2008 with Addendum 1 Performance Rating of Room Fan Coils C403.2.10

460—2005 Performance Rating of Remote Mechanical-Draft Air-Cooled   
  Refrigerant Condensers Table C403.2.3(8)

550/590 (I-P)—~~2015~~ —2018 Performance Rating of Water-Chilling and Heat Pump Water-Heating Packages  
  Using the Vapor Compression Cycle C403.2.3.1,

Table C403.2.3(7)

560—00 Absorption Water Chilling and Water Heating Packages Table C403.2.3(7)

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 C403.2.14.1(1), C403.2.14.1

1230—2010 Performance Rating of Variable Refrigerant Flow (VRF) Multi-split   
  Air-conditioning and Heat Pump Equipment

with Addendum 1 Table C403.2.3(11)

1250-(I-P)—2014 Standard for Performance Rating in Walk-in Coolers and Freezers C403.2.14.2(3)

1360—17 Performance Rating of Computer and Data Processing Room Air Conditioners Table C403.2.3(9)

AMCA

Air Movement and Control Association International

30 West University Drive

Arlington Heights, IL 60004-1806

Standard Referenced   
reference in code  
number Title section number

AMCA 208—18 Annex C Calculation of the Fan Energy Index C202, C403.2.12.3

220—~~08 (R2012)~~220-21 Laboratory Methods of Testing Air Curtain Units for Aerodynamic  
  Performance Rating C402.5.7

205-19 Energy Efficiency Classification for Fans

500D—~~12~~18 Laboratory Methods for Testing Dampers for Rating C403.2.4.3

Revise reference standard as follows:

AMCA 220-~~19~~21 Laboratory Methods of Testing Air Curtain Units for Aerodynamic Performance Rating

(E10087 AS)

**Add new standard(s) as follows:**

**AMCA**

ANSI/AMCA 230-15: Laboratory Methods of Testing Air Circulating Fans for Rating and Certification

**(EN8783 / CE141-19 AM)**

ANSI

American National Standards Institute

25 West 43rd Street

4th Floor

New York, NY 10036

Standard Referenced   
reference in code  
number Title section number

A 112.18.1M—1999 Finished and Rough Brass Plumbing Fixture Fittings C404.12.1

Z21.47/CSA ~~2.3—12~~ 2.3-2016 Gas-fired Central Furnaces Table C403.2.3(4)

Z83.8/CSA ~~2.6—09~~ 2.6— 2016 ~~Gas-fired~~ Gas Unit Heaters, Gas Packaged Heaters, Gas Utility Heaters , and Gas- fired Duct Furnaces

Table C403.2.3(4)

APSP

The Association of Pool & Spa Professionals

2111 Eisenhower Avenue, Suite 500

Alexandria, VA 22314

Standard Referenced   
reference in code  
number Title section number

ANSI/APSP/ICC ~~14—2014~~14—2019 American National Standard for Portable Electric Spa

Energy Efficiency C404.10

**APSP (PHTA Standards)**

Pool & Hot Tub Alliance

~~Association of Pool and Spa Professionals~~

                                                                                            2111 Eisenhower Avenue, Suite 500

Alexandria, VA 22314

ANSI/APSP/ICC 14-~~14~~19

American National Standard for Portable E

**Add new standard(s) as follows:**

**ASABE**

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

**(EN8912 / CE209-19 AM)**

(**EN10524 AS)**

ASHRAE

ASHRAE

1791 Tullie Circle NE

Atlanta, GA 30329-2305

Standard Referenced   
reference in code  
number Title section number

ANSI/ASHRAE   
Standard ~~55—13~~ 55-2017 Thermal Environmental Conditions for Human Occupancy C403.5.3, Table C407.5.1(1)

ANSI/ASHRAE/ACCA

Standard ~~183—2007~~ 183

—(~~RA2014~~ RA2017)  Except Low-rise Residential Buildings C403.2.1

~~ASHRAE—2016~~ ASHRAE—2020 HVAC Systems and Equipment Handbook-2020 C403.2.1

ISO/AHRI/ASHRAE 13256-1 (~~2017~~ 2012) Water-to-Air and Brine-to-Air Heat Pumps—Testing and Rating for Performance Table C403.2.3(2)

ISO/AHRI/ASHRAE 13256-2 (~~2017~~ 2012) Water-to-Water and Brine-to-Water Heat Pumps—Testing and Rating  
  for Performance Table C403.2.3(2)

ANSI/ASHRAE/IESNA  
~~90.1—2016~~ 90.1-2019 Energy Standard for Buildings Except Low-rise Residential Buildings,  
  excluding section, 8.4.2, 8.4.3 and 9.4.1.1(g) C304.1,1, C304.3.1.4, C304.3.2.1, C304.3.2.2,

C401.2, Table C402.1.4, C405.5.1, C405.6.1,

C406.2, C502.1, C503.1, C504.1

ASHRAE ~~127-2007~~ 127- 2012 Method of Testing for Rating Computer and Data Processing Room Unitary Air Conditioners

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

Standard Referenced   
reference in code  
number Title section number

ASME ~~A17.1—2016~~ A17.1— 2019/CSA ~~B44—16~~ B44—19 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

Standard Referenced   
reference in code  
number Title section number

C36/C36M—03 Standard Specification for Gypsum Wallboard 202

~~C90—14~~ C90—2016A Specification for Load-bearing Concrete Masonry Units C304.1.1, Table C402.1.3

C177—04 Test Method for Steady-state Heat Flux Measurements and Thermal   
  Transmission

Properties by Means of the Guarded-hot-plate Apparatus C304.2.1

C236—89 (1993el) Test Method for Steady-state Thermal Performance of Building   
  Assemblies

by Means of a Guarded Hot Box C304.2.1

C 518—15 Test Method for Steady-state Thermal Transmission Properties   
  by Means

of the Heat Flow Meter Apparatus C304.2.1

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, C304.2.2, Table C402.1.4

C1371—15 Standard Test Method for Determination of Emittance of Materials   
  Near Room Temperature Using Portable Emissometers Table C402.3

~~C1549—09(2014)~~ 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

D2412—02(2008) Test Method for Determination of External Loading Characteristics   
  of Plastic Pipe by Parallel Pipe Loading Table C403.2.9.2

E84—09 Test Method for Surface Burning Characteristics of Building Materials C403.2.9.3.7

E283-2004~~(2012)~~ 2010(2018)

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, C402.5.8

E408— 13 Test Methods for Total Normal Emittance of Surfaces Using   
  Inspection-meter Techniques Table C402.3

~~E779—10~~ E779— 2010(2018) Standard Test Method for Determining Air Leakage Rate by Fan Pressurization C402.5

~~E903—12~~ 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 System for   
  Low-rise Framed Building Walls C402.5.1.2.2

~~E1827—11~~ E1827— 2011(2017) Standard Test Methods for Determining Airtightness of Building Using an Orifice Blower Door

~~E1918—06(2015)~~ E1918— 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, C402.3.2

E2178—13 Standard Test Method for Air Permanence of Building Materials C402.5.1.2.1

~~E2357—11~~ E2357—2018 Test Method for Determining Air Leakage of Air Barriers Assemblies C402.5.1.2.2

**Add new text as follows:**

**ASTM**

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

**(EN8731 / CE101-19 AM)**

CRRC

Cool Roof Rating Council

449 15th Street, Suite 400

Oakland, CA 94612

Standard Referenced   
reference in code  
number Title section number

ANSI/CRRC-S100—~~2016~~2020 Standard Test Methods for Determining Radiative Properties of Materials Table C402.3.1,

Table C402.3

CSA

CSA Group

8501 East Pleasant Valley Road

Cleveland, OH 44131-5516

Standard Referenced   
reference in code  
number Title section number

AAMA/WDMA/CSA   
101/I.S.2/A440—11 or 17 North American Fenestration Standard/Specification for  
  Windows, Doors and Unit Skylights Table C402.5.2

CSA B55.1—2012 Test Method for Measuring Efficiency and Pressure Loss of Drain Water Heat Recovery Units C404.8

CSA B55.2—2012 Drain Water Heat Recover Units C404.8

CTI

Cooling Technology Institute

P. O. Box 681807

Houston, TX 77268

Standard Referenced   
reference in code  
number Title section number

ATC 105 (00) Acceptance Test Code for Water Cooling Tower Table C403.2.3(8)

ATC 105S—11 Acceptance Test Code for Closed Circuit Cooling Towers Table C403.2.3(8)

ATC 106—11 Acceptance Test For Mechanical Draft Evaporative Vapor Condensers Table C403.2.3(8)

~~STD 201—11~~ STD-201RS(17) Standard for Certification of Water Cooling Towers Thermal Performances Table C403.2.3(8)

DASMA

Door & Access Systems Manufacturers Association

1300 Sumner Avenue

Cleveland, OH 44115-2851

Standard Referenced   
reference in code  
number Title section number

ANSI/DASMA ~~105—2016~~ 105-2017 Test Method for Thermal Transmittance and Air Infiltration of Garage   
  Doors and Rolling Doors C303.1.3, Table C402.5.2

DOE

U.S. Department of Energy

c/o Superintendent of Documents

1000 Independence Avenue SW

Washington, DC 20585

Standard Referenced   
reference in code  
number Title section number

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 C403.2.3(4),

Table C403.2.3(5), Table C404.2

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 C403.2.3(5), C403.2.12.4,

C403.2.14.1, C403.4.4.4, Table C404.2, C405.6, C405.7

10 CFR, Part 431, Subpart B,  
Appendix B—2015 Uniform Test Method for Measuring Nominal Full Load Efficiency of Electric Motors C403.2.12.4,

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

DOE—continued

10 CFR 431, Subpart R Commercial Refrigerators, Freezers and Refrigerator-Freezers C403.2.14, C403.2.14.2

10 CFR, Part 431.62 Definitions Concerning Commercial Refrigerators, Freezers and  
  Refrigerator-freezers C403.2.14.1, Table 403.2.14.1(1)

NAECA 87—(88) National Appliance Energy Conservation Act 1987

 [(Public Law 100-12 (with Amendments of 1988-P.L. 100-357)] Tables C403.2.3(1),

C403.2.3(2), C403.2.3(4), Form R402

Florida Codes

Building Codes and Standards Office

Florida Department of Business and Professional Regulation

1940 N Monroe Street, Suite 90A

Tallahassee, FL 32399-0772

Standard Referenced   
reference in code  
number Title section number

FBC-M—Eight Edition (2023) Florida Building Code, Mechanical C201.3, C402.5.3, C403.2.4.3, C403.2.6, C403.2.7,

Table C403.2.9.2, C403.2.9.2, C403.4.1.1, C403.4.4,

C403.4.4.6, C406.6, C501.4

FBC-FG— Eight Edition (2023) Florida Building Code, Fuel Gas C201.3, C501.4

FBC-P— Eight Edition (2023) Florida Building Code, Plumbing C201.3, C501.4

FBC-R— Eight Edition (2023) Florida Building Code, Residential C201.3, C202

FFPC— Eight Edition (2023) Florida Fire Prevention Code C201.3, C501.4, CB103.3

FS Florida Statutes C103.1.1.1.2, C103.1.1.2, C104.4, C202

IEEE

Institute of Electrical and Electronic Engineers Inc.

3 Park Avenue, 17th Floor

New York, NY 10016

Standard Referenced   
reference in code  
number Title section number

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

Standard Referenced   
reference in code  
number Title section number

ANSI/ASHRAE/IESNA 90.1

~~—2016~~ 90.1—2019 Energy Standard for Buildings Except  
  Low-rise Residential Buildings, excluding section 9.4.1.1(g) C304.1.1, C304.3.1.4,

C304.3.2.1, C304.3.2.2, C401.2, Table C402.1.3,

Table C402.1.4, C405.5.1, C406.2, C502.1, C503.1, C504.1

ISO

International Organization for Standardization

Chemin de Blandonnet 8

CP 401

1214 Vernier

Geneva, Switzerland

Standard Referenced   
reference in code  
number Title section number

ISO/AHRI/ASHRAE   
13256-1 (~~2011~~2012) Water-to-Air and Brine-to-air Heat Pumps -Testing and Rating  
  for Performance Table C403.2.3(2)

ISO/AHRI/ASHRAE   
13256-2(~~2011~~ 2012) Water-to-Water and Brine-to-Water Heat Pumps -Testing and Rating  
  for Performance Table C403.2.3(2)

NAIMA

North American Insulation Manufacturers Association

11 Canal Center Plaza, Suite 103

Alexandria, VA 22314

Standard Referenced   
reference in code  
number Title section number

NAIMA 2002 Fibrous Glass Duct Construction Standards, Fifth Edition Table C403.2.9.2

NEBB

National Environmental Balancing Bureau

8575 Grovemont Circle

Gaithersburg, MD 20877-4121

Standard Referenced   
reference in code  
number Title section number

NEBB, 2005 Procedural Standards for Testing Adjusting Balancing   
  of

Environmental Systems, Seventh Edition C408.2.2.1

NEMA

National Electrical Manufacturers Association

1300 North 17th Street, Suite 900

Arlington, VA 22209

Standard Referenced   
reference in code  
number Title section number

**~~MG1—2014~~ MG1—2016** Motors and Generators C202

**Add new Standard to Chapter 6 [CE] Referenced Standards under "NEMA"**

OS 4-2016        Requirements for Air-Sealed Boxes for Electrical and Communication Applications

                                C402.5.10.1

**(EN10070 AS)**

NFPA

National Fire Protection Association

1 Batterymarch Park

Quincy, MA 02169-7471

Standard Referenced   
reference in code  
number Title section number

70—17 National Electrical Code C501.4

NFRC

National Fenestration Rating Council, Inc.

6305 Ivy Lane, Suite 140

Greenbelt, MD 20770

Standard Referenced   
reference in code  
number Title section number

~~100—2017~~ 100—2020 Procedure for Determining Fenestration Products *U*-factors C303.1.3, C402.2.2

200—~~2017~~ 200-2020 Procedure for Determining Fenestration Product Solar Heat Gain Coefficients   
  and Visible Transmittance at Normal Incidence C303.1.3, C402.4.1.1

400—2017 400—2020 Procedure for Determining Fenestration Product Air Leakage Table C402.5.2

(**EN10524 AS)**

Add new Standard in Chapter 6 (CE) Referenced Standards, under NFRC, as follows:

203 – 2020:                 Procedure for Determining Visible Transmittance of Tubular Daylighting Devices                                                      C303.1.3

**(EN10406 AS)**

SMACNA

Sheet Metal and Air Conditioning Contractors’ National Association, Inc.

4021 Lafayette Center Drive

Chantilly, VA 20151-1219

Standard Referenced   
reference in code  
number Title section number

SMACNA—2012 HVAC Air Duct Leakage Test Manual 2nd Edition Table C403.2.9.2, C403.2.9.3.7

SPRI

Single Ply Roofing Industry

465 Waverly Oaks Road, Suite 421

Waltham, MA 02452

Standard Referenced   
reference in code  
number Title section number

ANSI/SPRI VF-1 2010 External Fire Design Standard for Vegetative Roofs C407.5.2.4.1

UL

UL LLC

333 Pfingsten Road

Northbrook, IL 60062-2096

Standard Referenced   
reference in code  
number Title section number

181—05 Standard for Factory-made Air Ducts and Air Connectors—  
  with Revisions

through December 1998 Table C403.2.9.2

181A—05 Closure Systems for Use with Rigid Air Ducts and Air Connectors—  
  with Revisions through December 1998 Table C403.2.9.2

, C403.2.9.3.7

181B—05 Closure Systems for Use with Flexible Air Ducts and Air Connectors—  
  with

Revisions through May 2000 Table C403.2.9.2,

C403.2.9.3.7

710—12 Exhaust Hoods for Commercial Cooking Equipment—with Revisions through ~~November~~ ~~2013~~ June 2018

C403.2.8

723—03 Standard for Test for Surface Burning Characteristics of Building Materials C403.2.9.3.7

~~727—06~~ 727—2018 Oil-fired Central ~~Furnace—with revisions through October 2013~~ Furnaces Table C403.2.3(4)

~~731—95~~ 731—2018 Oil-fired Unit ~~Heaters—with revisions through October 2013~~ Heaters Table C403.2.3(4)

~~1784—01~~ 1784—2015 Air Leakage Tests of Door ~~Assemblies—with Revisions through February 2015~~ Assemblies C402.5.4

US-FTC

United States-Federal Trade Commission

600 Pennsylvania Avenue NW

Washington, DC 20580

Standard Referenced   
reference in code  
number Title section number

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

Standard Referenced   
reference in code  
number Title section number

AAMA/WDMA/CSA  
101/I.S.2/A440—11 or 17 North American Fenestration Standard/Specification for  
  Windows, Doors and Unit Skylights Table C402.5.2