

(Effective until March 15, 2024)

WAC 51-11R-51000 Chapter 6—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 R106.

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 101/1.S.2/A C440-17	North American Fenestration Standard/Specifications for Windows, Doors and Unit Skylights	R402.4.3
ACCA	Air Conditioning Contractors of America 2800 Shirlington Road, Suite 300 Arlington, VA 22206	
Standard reference number	Title	Referenced in code section number
Manual J-16	Residential Load Calculation Eighth Edition	R403.7
Manual S-14	Residential Equipment	R403.7
ANSI	American National Standards Institute 25 West 43rd Street, 4th Floor New York, NY 10036	
Standard reference number	Title	Referenced in code section number
Z21.50-2016/CSA 2.22-2016	Vented Decorative Gas Appliances	R402.4.2.1, R403.1.3
Z21.88-2017/CSA 2.33-2017	Vented Gas Fireplace Heaters	R402.4.2.1
APSP	The Association of Pool and Spa Professionals 2111 Eisenhower Avenue, Suite 500 Alexandria, VA 22206	
Standard reference number	Title	Referenced in code section number
ANSI/APSP/ICC 14-2014	American National Standard for Portable Electric Spa Energy Efficiency	R403.11
ANSI/APSP/ICC 15a-2011	American National Standard for Residential Swimming Pool and Spa Energy Efficiency— Includes Addenda A approved January 9, 2013	R403.12
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. 1791 Tullie Circle, N.E. Atlanta, GA 30329-2305	
Standard reference number	Title	Referenced in code section number
ASHRAE-2017	ASHRAE Handbook of Fundamentals	R402.1.4, Table R405.5.2(1)
ASHRAE 193-2010 (RA 2014)	Method of Test for Determining the Airtightness of HVAC Equipment	R403.3.2.1
ASTM	ASTM International 100 Barr Harbor Drive West Conshohocken, PA 19428-2859	
Standard reference number	Title	Referenced in code section number
C1363-11	Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus	R303.1.4.1
E 283-04 (2012)	Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen	R402.4.5
E779-10	Standard Test Method for Determining Air Leakage Rate by Fan Pressurization	R402.4.1.2

E1827-11	Standard Test Methods for Determining Airtightness of Building Using an Orifice Blower Door	R402.4.1.2
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	R402.4.3
CSA 55.1-2015	Test Method for Measuring Efficiency and Pressure Loss of Drain Water Heat Recovery Systems	R403.5.4, Table R406.2
CSA 55.2-2015	Drain Water Heat Recovery Units	R403.5.4
CSA P.4.1-15	Testing Method for Measuring Annual Fireplace Efficiency	R402.4.2.1
DASMA	Door and Access Systems Manufacturers Association 1300 Sumner Avenue Cleveland, OH 44115-2851	
105-2016	Test Method for Thermal Transmittance and Air Infiltration of Garage Doors and Rolling Doors	R303.1.3
HVI	Home Ventilating Institute 1000 North Rand Road, Suite 214 Wauconda, IL 60084	
916-09	Airflow Test Procedure	R303.1.3
ICC	International Code Council, Inc. 500 New Jersey Avenue, N.W. 6th Floor Washington, DC 20001	
Standard reference number	Title	Referenced in code section number
IBC-17	International Building Code	R201.3, R303.2, R402.11, R4501.4
ICC 400-17	Standard on the Design and Construction of Log Structures	Table R402.1.1
IFC-17	International Fire Code	R201.3, R501.4
IFGC-17	International Fuel Gas Code	R201.3, R501.4
IFGC-17	International Mechanical Code	R201.3, R403.3.2, R403.6, R501.4
IPMC-17	International Property Maintenance Code	R501.4
IRC-17	International Residential Code	R104.2.1, R201.3, R303.2, R401.2, R403.2.2, R403.5, R406.1, R406.2, Table R406.2
IEEE	The Institute of Electrical and Electronic Engineers, Inc. 3 Park Avenue New York, NY 10016-5997	
Standard reference number	Title	Referenced in code section number
515.1-2012	IEEE Standard for the Testing, Design, Installation and Maintenance of Electrical Resistance Trace Heating for Commercial Applications	R403.5.1.2
NEEA	Northwest Energy Efficiency Alliance 421 S.W. 6th Ave., Suite 600 Portland, OR 97204	
Standard reference number	Title	Referenced in code section number
NEEA-2011	Northern Climate Specification for Heat Pump Water Heaters, Vers. 4.0	Table R406.2
NFRC	National Fenestration Rating Council, Inc. 6305 Ivy Lane, Suite 140 Greenbelt, MD 20770	
Standard reference number	Title	Referenced in code section number
100-2010	Procedure for Determining Fenestration Products U-factors	R303.1.3

200-2010	Procedure for Determining Fenestration Product Solar Heat Gain Coefficients and Visible Transmittance at Normal Incidence	R303.1.3
400-2010	Procedure for Determining Fenestration Product Air Leakage	R402.4.3
UL	Underwriters Laboratory 333 Pflingsten Road Northbrook, IL 60062	
Standard reference number	Title	Referenced in code section number
UL 127-11	Factory Built Fireplace	R402.4.2
UL 515-11	Electric Resistance Heat Tracing for Commercial and Industrial Applications	R403.5.1.2
UL 907-94	Fireplace Accessories (with revisions through April 2010)	R402.4.2
US-FTC	United States-Federal Trade Commission 600 Pennsylvania Avenue N.W. Washington, DC 20580	
Standard reference number	Title	Referenced in code section number
C.F.R. Title 16 (May 31, 2005)	R-value	Rule R303.1.4
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	R402.4.3
WSU	Washington State University Energy Extension Program 905 Plum Street S.E., Bldg 3 P.O. Box 43165 Olympia, WA 98506-3166	
Standard reference number	Title	Referenced in code section number
WSU RS 33	Duct Testing Standard for New and Existing Construction Publication No. WSUEEP15-016	R403.3.3

[Statutory Authority: RCW 19.27A.020, 19.27A.045, 19.27A.160 and chapter 19.27 RCW. WSR 20-01-047, § 51-11R-51000, filed 12/9/19, effective 7/1/20. Statutory Authority: RCW 19.27A.020, 19.27A.045, 19.27A.160, and 19.27.074. WSR 16-02-127, § 51-11R-51000, filed 1/6/16, effective 7/1/16.]

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WAC 51-11R-51000 Chapter 6—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 R106.

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Standard reference number	Title	Referenced in code section number
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Manual S-14	Residential Equipment	R403.7
ANSI	American National Standards Institute 25 West 43rd Street, 4th Floor New York, NY 10036	
Standard reference number	Title	Referenced in code section number
Z21.50-2016/CSA 2.22-2016	Vented Decorative Gas Appliances	R402.4.2.1, R403.1.3
Z21.88-2017/CSA 2.33-2017	Vented Gas Fireplace Heaters	R402.4.2.1
APSP	The Association of Pool and Spa Professionals 2111 Eisenhower Avenue, Suite 500 Alexandria, VA 22206	
Standard reference number	Title	Referenced in code section number
ANSI/APSP/ICC 14-2019	American National Standard for Portable Electric Spa Energy Efficiency	R403.11
ANSI/APSP/ICC 15a-2011	American National Standard for Residential Swimming Pool and Spa Energy Efficiency— Includes Addenda A approved January 9, 2013	R403.12
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. 1791 Tullie Circle, N.E. Atlanta, GA 30329-2305	
Standard reference number	Title	Referenced in code section number
ASHRAE-2021	ASHRAE Handbook of Fundamentals	R402.1.5, Table R405.5.2(1)
ASHRAE 193-2010 (RA 2014)	Method of Test for Determining the Airtightness of HVAC Equipment	R403.3.2.1
ASTM	ASTM International 100 Barr Harbor Drive West Conshohocken, PA 19428-2859	
Standard reference number	Title	Referenced in code section number
C1363-11	Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus	R303.1.4.1
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	R402.4.5
E779-2010 (2018)	Standard Test Method for Determining Air Leakage Rate by Fan Pressurization	R402.4.1.2
E1554/E1554M-E2013	Standard Test Method for Determining Air Leakage of Air Distribution Systems by Fan Pressurization	R403.3.5
E1827-2011 (2017)	Standard Test Methods for Determining Airtightness of Building Using an Orifice Blower Door	R402.4.1.2
E2178-2013	Standard Test Method for Air Permeance of Building Materials	R303.1.5
E3158-2018	Standard Test Method for Measuring the Air Leakage Rate of a Large or Multizone Building	R402.4.1.2
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	R402.4.3
CSA 55.1-2015	Test Method for Measuring Efficiency and Pressure Loss of Drain Water Heat Recovery Systems	R403.5.4, Table R406.2
CSA 55.2-2015	Drain Water Heat Recovery Units	R403.5.4

CSA P.4.1-15	Testing Method for Measuring Annual Fireplace Efficiency	R402.4.2.1
DASMA	Door and Access Systems Manufacturers Association 1300 Sumner Avenue Cleveland, OH 44115-2851	
105-2017	Test Method for Thermal Transmittance and Air Infiltration of Garage Doors and Rolling Doors	R303.1.3
HVI	Home Ventilating Institute 1000 North Rand Road, Suite 214 Wauconda, IL 60084	
916-18	Airflow Test Procedure	R303.1.3
ICC	International Code Council, Inc. 500 New Jersey Avenue, N.W. 6th Floor Washington, DC 20001	
Standard reference number	Title	Referenced in code section number
ANSI/APSP/ICC 14-2019	American National Standard for Portable Electric Spa Energy Efficiency	R403.11
ANSI/APSP/ICC 15a-2011	American National Standard for Residential Swimming Pool and Spa Energy Efficiency—Includes Addenda A approved January 9, 2013	R403.12
ANSI/RESNET/ICC 380-2019	Standard for Testing Airtightness of building, Dwelling Unit and Sleeping Unit Enclosures; Airtightness of Heating and Cooling Air Distribution Systems, and Airflow of Mechanical Ventilation Systems	R402.4.1.2
IBC-21	International Building Code	R201.3, R303.2, R402.11, R4501.4
ICC 400-17	Standard on the Design and Construction of Log Structures	Table R402.1.1
ICC 500-2020	ICC/NSSA Standard for the Design and Construction of Storm Shelters	R402.5
IFC-21	International Fire Code	R201.3, R501.4
IFGC-21	International Fuel Gas Code	R201.3, R501.4
IFGC-21	International Mechanical Code	R201.3, R403.3.2, R403.6, R501.4
IPMC-21	International Property Maintenance Code	R501.4
IRC-21	International Residential Code	R104.2.1, R201.3, R303.2, R401.2, R403.2.2, R403.5, R406.1, R406.2, Table R406.2
IEEE	The Institute of Electrical and Electronic Engineers, Inc. 3 Park Avenue New York, NY 10016-5997	
Standard reference number	Title	Referenced in code section number
515.1-2012	IEEE Standard for the Testing, Design, Installation and Maintenance of Electrical Resistance Trace Heating for Commercial Applications	R403.5.1.2
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/IEC 17024-212	Conformity Assessment: General requirements for bodies operating certification of persons	R402.4.1.2
NEEA	Northwest Energy Efficiency Alliance 421 S.W. 6th Ave., Suite 600 Portland, OR 97204	
Standard reference number	Title	Referenced in code section number
NEEA-2011	Northern Climate Specification for Heat Pump Water Heaters, Vers. 4.0	Table R406.2
NEEP	Northeast Energy Efficiency Partnership, Inc. 24 School Street, 2nd Floor Boston, MA 02108-4314	

Standard reference number	Title	Referenced in code section number
ccASHP Version 3.1	Cold Climate Air Source Heat Pump (ccASHP) Product List and Specifications: https://neep.org/heating-electrification/ccashp-specification-product-list	Table R406.3
NEMA	National Electrical Manufacturers Association 1300 17th Street N No. 900 Arlington, VA 22209	
Standard reference number	Title	Referenced in code section number
OS4-2016	Requirements for Air-Sealed Boxes for Electrical and Communications Applications	R402.4.6
NFPA	National Fire Protection Association 1 Batterymarch Park Quincy, MA 02169-7417	
Standard reference number	Title	Referenced in code section number
70-20	National Electrical Code	R501.4
NFRC	National Fenestration Rating Council, Inc. 6305 Ivy Lane, Suite 140 Greenbelt, MD 20770	
Standard reference number	Title	Referenced in code section number
100-2020	Procedure for Determining Fenestration Products <i>U</i> -factors	R303.1.3
200-2020	Procedure for Determining Fenestration Product Solar Heat Gain Coefficients and Visible Transmittance at Normal Incidence	R303.1.3
400-2020	Procedure for Determining Fenestration Product Air Leakage	R402.4.3
UL	Underwriters Laboratory 333 Pfingsten Road Northbrook, IL 60062	
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Standard reference number	Title	Referenced in code section number
C.F.R. Title 16 (2015)	<i>R</i> -value Rule	Rule R303.1.4
WDMA	Window and Door Manufacturers Association 1400 East Touhy Avenue, Suite 470 Des Plaines, IL 60018	
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WSU	Washington State University Energy Extension Program 905 Plum Street S.E., Bldg 3 P.O. Box 43165 Olympia, WA 98506-3166	
Standard reference number	Title	Referenced in code section number
WSU RS 33	Duct Testing Standard for New and Existing Construction Publication No. WSUEEP15-016	R403.3.3

[Statutory Authority: RCW 19.27A.020, 19.27A.045, 19.27A.160, and chapter 19.27A RCW. WSR 23-02-060, 23-12-102, and 23-20-022, § 51-11R-51000, filed 1/3/23, 6/7/23, and 9/25/23, effective 3/15/24.]

Statutory Authority: RCW 19.27A.020, 19.27A.045, 19.27A.160 and chapter 19.27 RCW. WSR 20-01-047, § 51-11R-51000, filed 12/9/19, effective 7/1/20. Statutory Authority: RCW 19.27A.020, 19.27A.045, 19.27A.160, and 19.27.074. WSR 16-02-127, § 51-11R-51000, filed 1/6/16, effective 7/1/16.]