4101:8-44-01 Referenced standards.

4401.1 General. This chapter lists the standards that are referenced in various sections of this code. The standards are listed herein by the promulgating agency of the standard, the standard identification, the effective date and title. The application of the referenced standards shall be as specified in Section 102.5.

4401.2 Referenced codes. When indicated in this code, the following codes refer to provisions in the listed chapters of the administrative code:

<u>Referenced Code</u>	Ohio Administrative Code Chapters
<u>Ohio Building Code</u> <u>Fire Code</u> <u>Mechanical Code</u> <u>Plumbing Code</u>	<u>4101:1-1 to 4101:1-35</u> <u>1301:7-1 to 1301:7-7</u> <u>4101:2-1 to 4101:2-15</u> <u>4101:3-1 to 4101:3-15, codified and published as</u> <u>the 2017 Ohio Plumbing Code, effective 11-1-2017,</u> <u>and as modified in Section 2501.1.1.</u>

4401.3 Referenced standard list.

AAIVIA 1827 Wa	n Architectural Manufacturers Association Ilden Office Square, Suite 550 purg, IL 60173
Standard Referenced	Title
AAMA/WDMA/CSA 101/ I.S.2/ A440—17: 450—10:	North American Fenestration Standards/ Specifications for Windows, Doors and Skylights Voluntary Performance Rating Method for Mulled Fenestration Assemblies
<u>506—16:</u>	Voluntary Specifications for Hurricane Impact
<u>711—16:</u>	and Cycle Testing of Fenestration Products Voluntary Specification for Self-adhering Flashing Used for Installation of Exterior Wall
<u>712—14:</u>	<u>Fenestration Products</u> <u>Voluntary Specification for Mechanically</u> <u>Attached Flexible Flashing</u>

AAMA	American Architectural Manufacturers Association 1827 Walden Office Square, Suite 550 Schaumburg, IL 60173
Standard Referen	iced <u>Title</u>
<u>714—15:</u>	Voluntary Specification for Liquid Applied Flashing Used to Create a Water-resistive Seal around Exterior Wall Openings in Buildings
<u>AAMA/NPEA/NS</u> <u>2100—12:</u>	
ACCA	Air Conditioning Contractors of America 2800 Shirlington Road, Suite 300 Arlington, VA 22206
Standard reference	
<u>Manual D—2016:</u> <u>Manual J—2016:</u> <u>Manual S—2014:</u>	<u>Residential Duct Systems</u> <u>Residential Load Calculation—Eighth Edition</u> <u>Residential Equipment Selection</u>
ACI Standard reference	American Concrete Institute <u>38800 Country Club Drive</u> Farmington Hills, MI 48331 Title
<u>Standard reference</u>	ced <u>Title</u>
<u>318—14:</u> <u>332—14:</u>	Building Code Requirements for Structural Concrete Residential Code Requirements for Structura Concrete
<u>AISI</u>	American Iron and Steel Institute 25 Massachusetts Avenue, NW Suite 800 Washington, DC 20001
Standard referen	
<u>AISI S100—16:</u>	North American Specification for the Design of Cold-formed Steel Structural Members, 2016
<u>AISI S220—15:</u>	North American Standard for Cold-formed Stee Framing—Nonstructural Members, 2015
<u>AISI S230—15:</u>	Standard for Cold-formed Steel Framing— Prescriptive Method for One- and Two-family Dwellings, 2015

<u>AISI</u>	25 Mas Washir	can Iron and Steel Institute ssachusetts Avenue, NW Suite 800 ngton, DC 20001
Standard reference	ced	<u>Title</u>
<u>AISI S240—15:</u>		North American Standard for Cold-Formed Steel Structural Framing
AMCA	<u>30 Wes</u>	ovement and Control Association International st University Drive ton Heights, IL 60004
Standard reference	ced	Title
ANSI/AMCA 210- ANSI/ASHRAE 5	-	Laboratory Methods of Testing Fans for Aerodynamic Performance Rating
<u>ANCE</u>	<u>Av. Lá</u> Col. Ni	ation of the Electric Sector izaro Cardenas No. 869 ueva Industrial Vallejo 7700 México D.F.
Standard reference	ced	Title
<u>NMX-J-521/2-40-</u> <u>ANCE—2014/</u> <u>CAN/CSA-22.2</u> <u>No. 60335-2-40—</u> <u>UL 60335-2-40:</u>	12/	Safety of Household and Similar Electric Appliances, Part 2-40: Particular Requirements for Heat Pumps, Air-Conditioners and Dehumidifiers
ANSI	25 Wes New Y	can National Standards Institute st 43rd Street, 4th Floor York, NY 10036
Standard referen	cea	<u>Title</u>
<u>A108.1A—17:</u> <u>A108.1B—17:</u> [JR: most current <u>edition is 2017</u> <u>A108.4—17:</u>		Installation of Ceramic Tile in the Wet-set Method, with Portland Cement Mortar Installation of Ceramic Tile, Quarry Tile on a Cured Portland Cement Mortar Setting Bed with Dry-set or Latex Portland Mortar Installation of Ceramic Tile with Organic Adhesives or Water-Cleanable Tile-setting Epoxy Adhesive

	Installation of Ceramic Tile with Dry-set Portland Cement Mortar or Latex Portland Cement Mortar Installation of Ceramic Tile with Chemical- resistant, Water-cleanable Tile-setting and -grouting Epoxy Interior Installation of Cementitious Backer Units Standard Specifications for Structural Glued Laminated Timber of Softwood Species
Standard referenced A108.5—17: A108.6—17: A108.11—17: ANSI 117—2015: A118.1—17: A118.3—13: A118.4—16: A118.10—17: A136.1—17: LC1/CSA 6.26—13: LC4/CSA 6.32—12:	Image:
<u>A108.5—17:</u> <u>A108.6—17:</u> <u>A108.11—17:</u> <u>ANSI 117—2015:</u> <u>A118.1—17:</u> <u>A118.3—13:</u> <u>A118.4—16:</u> <u>A118.4—16:</u> <u>A118.10—17:</u> <u>A136.1—17:</u> <u>A136.1—17:</u> <u>LC1/CSA 6.26—13:</u> <u>LC4/CSA 6.32—12:</u>	Installation of Ceramic Tile with Dry-set Portland Cement Mortar or Latex Portland Cement Mortar Installation of Ceramic Tile with Chemical- resistant, Water-cleanable Tile-setting and -grouting Epoxy Interior Installation of Cementitious Backer Units Standard Specifications for Structural Glued Laminated Timber of Softwood Species American National Standard Specifications for Dry- set Portland Cement Mortar American National Standard Specifications for Chemical-resistant, Water-cleanable Tile-setting and -grouting Epoxy, and Water-cleanable Tile- setting Epoxy Adhesive American National Standard Specifications for Modified Dry-Set Cement Mortar
<u>A108.6—17:</u> <u>A108.11—17:</u> <u>ANSI 117—2015:</u> <u>A118.1—17:</u> <u>A118.3—13:</u> <u>A118.4—16:</u> <u>A118.4—16:</u> <u>A118.10—17:</u> <u>A136.1—17:</u> <u>A136.1—17:</u> <u>LC1/CSA 6.26—13:</u> <u>LC4/CSA 6.32—12:</u>	Cement Mortar or Latex Portland Cement MortarInstallation of Ceramic Tile with Chemical- resistant, Water-cleanable Tile-setting and -groutingEpoxyInterior Installation of Cementitious Backer UnitsStandard Specifications for Structural GluedLaminated Timber of Softwood SpeciesAmerican National Standard Specifications for Dry- set Portland Cement MortarAmerican National Standard Specifications for Chemical-resistant, Water-cleanable Tile-setting and -grouting Epoxy, and Water-cleanable Tile- setting Epoxy AdhesiveAmerican National Standard Specifications for Modified Dry-Set Cement Mortar
<u>A108.11—17:</u> <u>ANSI 117—2015:</u> <u>A118.1—17:</u> <u>A118.3—13:</u> <u>A118.4—16:</u> <u>A118.10—17:</u> <u>A136.1—17:</u> <u>A136.1—17:</u> <u>LC1/CSA 6.26—13:</u> <u>LC4/CSA 6.32—12:</u>	Installation of Ceramic Tile with Chemical- resistant, Water-cleanable Tile-setting and -grouting EpoxyInterior Installation of Cementitious Backer Units Standard Specifications for Structural Glued Laminated Timber of Softwood SpeciesAmerican National Standard Specifications for Dry- set Portland Cement Mortar American National Standard Specifications for Chemical-resistant, Water-cleanable Tile-setting and -grouting Epoxy, and Water-cleanable Tile- setting Epoxy Adhesive American National Standard Specifications for Modified Dry-Set Cement Mortar
<u>A108.11—17:</u> <u>ANSI 117—2015:</u> <u>A118.1—17:</u> <u>A118.3—13:</u> <u>A118.4—16:</u> <u>A118.10—17:</u> <u>A136.1—17:</u> <u>A136.1—17:</u> <u>LC1/CSA 6.26—13:</u> <u>LC4/CSA 6.32—12:</u>	Installation of Ceramic Tile with Chemical- resistant, Water-cleanable Tile-setting and -grouting EpoxyInterior Installation of Cementitious Backer Units Standard Specifications for Structural Glued Laminated Timber of Softwood SpeciesAmerican National Standard Specifications for Dry- set Portland Cement Mortar American National Standard Specifications for Chemical-resistant, Water-cleanable Tile-setting and -grouting Epoxy, and Water-cleanable Tile- setting Epoxy Adhesive American National Standard Specifications for Modified Dry-Set Cement Mortar
<u>A108.11—17:</u> <u>ANSI 117—2015:</u> <u>A118.1—17:</u> <u>A118.3—13:</u> <u>A118.4—16:</u> <u>A118.10—17:</u> <u>A136.1—17:</u> <u>A136.1—17:</u> <u>LC1/CSA 6.26—13:</u> <u>LC4/CSA 6.32—12:</u>	resistant, Water-cleanable Tile-setting and -groutingEpoxyInterior Installation of Cementitious Backer UnitsStandard Specifications for Structural GluedLaminated Timber of Softwood SpeciesAmerican National Standard Specifications for Dry-set Portland Cement MortarAmerican National Standard Specifications forChemical-resistant, Water-cleanable Tile-settingand -grouting Epoxy, and Water-cleanable Tile-setting Epoxy AdhesiveAmerican National Standard Specifications forMerican National Standard Specifications forMerican Standard Specifications forAmerican National Standard Specifications forModified Dry-Set Cement Mortar
ANSI 117—2015: A118.1—17: A118.3—13: A118.4—16: A118.10—17: A136.1—17: LC1/CSA 6.26—13: LC4/CSA 6.32—12:	Interior Installation of Cementitious Backer UnitsStandard Specifications for Structural GluedLaminated Timber of Softwood SpeciesAmerican National Standard Specifications for Dry-set Portland Cement MortarAmerican National Standard Specifications forChemical-resistant, Water-cleanable Tile-settingand -grouting Epoxy, and Water-cleanable Tile-setting Epoxy AdhesiveAmerican National Standard Specifications forMerican National Standard Specifications forModified Dry-Set Cement Mortar
ANSI 117—2015: A118.1—17: A118.3—13: A118.4—16: A118.10—17: A136.1—17: LC1/CSA 6.26—13: LC4/CSA 6.32—12:	Interior Installation of Cementitious Backer UnitsStandard Specifications for Structural GluedLaminated Timber of Softwood SpeciesAmerican National Standard Specifications for Dry-set Portland Cement MortarAmerican National Standard Specifications forChemical-resistant, Water-cleanable Tile-settingand -grouting Epoxy, and Water-cleanable Tile-setting Epoxy AdhesiveAmerican National Standard Specifications forMerican National Standard Specifications forModified Dry-Set Cement Mortar
<u>A118.1—17:</u> <u>A118.3—13:</u> <u>A118.4—16:</u> <u>A118.10—17:</u> <u>A136.1—17:</u> <u>A137.1—17:</u> <u>LC1/CSA 6.26—13:</u> <u>LC4/CSA 6.32—12:</u>	Laminated Timber of Softwood SpeciesAmerican National Standard Specifications for Dry- set Portland Cement MortarAmerican National Standard Specifications for Chemical-resistant, Water-cleanable Tile-setting and -grouting Epoxy, and Water-cleanable Tile- setting Epoxy Adhesive American National Standard Specifications for Modified Dry-Set Cement Mortar
<u>A118.3—13:</u> <u>A118.4—16:</u> <u>A118.10—17:</u> <u>A136.1—17:</u> <u>A137.1—17:</u> <u>LC1/CSA 6.26—13:</u> <u>LC4/CSA 6.32—12:</u>	American National Standard Specifications for Dry- set Portland Cement Mortar American National Standard Specifications for Chemical-resistant, Water-cleanable Tile-setting and -grouting Epoxy, and Water-cleanable Tile- setting Epoxy Adhesive American National Standard Specifications for Modified Dry-Set Cement Mortar
<u>A118.3—13:</u> <u>A118.4—16:</u> <u>A118.10—17:</u> <u>A136.1—17:</u> <u>A137.1—17:</u> <u>LC1/CSA 6.26—13:</u> <u>LC4/CSA 6.32—12:</u>	set Portland Cement Mortar American National Standard Specifications for Chemical-resistant, Water-cleanable Tile-setting and -grouting Epoxy, and Water-cleanable Tile- setting Epoxy Adhesive American National Standard Specifications for Modified Dry-Set Cement Mortar
<u>A118.4—16:</u> <u>A118.10—<i>17</i>:</u> <u>A136.1—<i>17</i>: <u>A137.1—17:</u> <u>LC1/CSA 6.26—13:</u> <u>LC4/CSA 6.32—12:</u></u>	American National Standard Specifications for Chemical-resistant, Water-cleanable Tile-setting and -grouting Epoxy, and Water-cleanable Tile- setting Epoxy Adhesive American National Standard Specifications for Modified Dry-Set Cement Mortar
<u>A118.4—16:</u> <u>A118.10—<i>17</i>:</u> <u>A136.1—<i>17</i>: <u>A137.1—17:</u> <u>LC1/CSA 6.26—13:</u> <u>LC4/CSA 6.32—12:</u></u>	Chemical-resistant, Water-cleanable Tile-setting and -grouting Epoxy, and Water-cleanable Tile- setting Epoxy Adhesive American National Standard Specifications for Modified Dry-Set Cement Mortar
<u>A118.10—17:</u> <u>A136.1—17:</u> <u>A137.1—17:</u> <u>LC1/CSA 6.26—13:</u> <u>LC4/CSA 6.32—12:</u>	and -grouting Epoxy, and Water-cleanable Tile- setting Epoxy Adhesive American National Standard Specifications for Modified Dry-Set Cement Mortar
<u>A118.10—17:</u> <u>A136.1—17:</u> <u>A137.1—17:</u> <u>LC1/CSA 6.26—13:</u> <u>LC4/CSA 6.32—12:</u>	setting Epoxy Adhesive American National Standard Specifications for Modified Dry-Set Cement Mortar
<u>A118.10—17:</u> <u>A136.1—17:</u> <u>A137.1—17:</u> <u>LC1/CSA 6.26—13:</u> <u>LC4/CSA 6.32—12:</u>	American National Standard Specifications for Modified Dry-Set Cement Mortar
<u>A118.10—17:</u> <u>A136.1—17:</u> <u>A137.1—17:</u> <u>LC1/CSA 6.26—13:</u> <u>LC4/CSA 6.32—12:</u>	Modified Dry-Set Cement Mortar
<u>A136.1—17:</u> <u>A137.1—17:</u> <u>LC1/CSA 6.26—13:</u> <u>LC4/CSA 6.32—12:</u>	
<u>A136.1—17:</u> <u>A137.1—17:</u> <u>LC1/CSA 6.26—13:</u> <u>LC4/CSA 6.32—12:</u>	Specification for Load-bearing, Bonded,
<u>A137.1—17:</u> <u>LC1/CSA 6.26—13:</u> <u>LC4/CSA 6.32—12:</u>	
<u>A137.1—17:</u> <u>LC1/CSA 6.26—13:</u> <u>LC4/CSA 6.32—12:</u>	Waterproof Membranes for Thin-set Ceramic Tile
<u>A137.1—17:</u> <u>LC1/CSA 6.26—13:</u> <u>LC4/CSA 6.32—12:</u>	and Dimension Stone Installation
LC1/CSA 6.26—13: LC4/CSA 6.32—12:	American National Standard Specifications for
LC1/CSA 6.26—13: LC4/CSA 6.32—12:	Organic Adhesives for Installation of Ceramic Tile
LC4/CSA 6.32—12:	American National Standard Specifications for
LC4/CSA 6.32—12:	Ceramic Tile
	Fuel Gas Piping Systems Using Corrugated
	Stainless Steel Tubing (CSST)
<u>Z21.1—2010:</u>	Press-connect Metallic Fittings for Use in Fuel Gas
<u>Z21.1—2010:</u>	Distribution Systems
	Household Cooking Gas Appliances
Z21.5.1/ CSA 7.1—14	
	Volume I—Type I Clothes Dryers
<u>Z21.8—94 (R2002):</u>	Installation of Domestic Gas Conversion Burners
<u>Z21.10.1/ CSA 4.1—12:</u>	
701 10 2/ 09 4 4 2	Heaters with Input Ratings of 75,000 Btu per hour
<u>Z21.10.3/ CSA 4.3</u>	Heaters with Input Ratings of 75,000 Btu per hour or Less
	Heaters with Input Ratings of 75,000 Btu per hour or Less

		rican National Standards Institute	
		43rd Street, 4th Floor	
		<u>ork, NY 10036</u>	
Standard refere	nced	<u>Title</u>	
<u>Z21.11.2—11:</u>		Gas-fired Room Heaters—Volume II—Unvented	
		Room Heaters	
Z21.13/ CSA 4.9	—11:	Gas-fired Low-pressure Steam and Hot Water	
		Boilers	
Z21.15/ CSA 9.1	<u>—09:</u>	Manually Operated Gas Valves for Appliances,	
		Appliance Connector Valves and Hose End Valves	
Z21.22—99 (R2	0 <i>15</i>):	Relief Valves for Hot Water Supply Systems-with	
		Addenda Z21.22a—2000 (R2003) and 21.22b—	
		<u>2001 (R2003)</u>	
Z21.24/ CSA 6.1	0—06:	Connectors for Gas Appliances	
<u>Z21.40.1/</u>		Gas-fired, Heat-activated Air-conditioning and Heat	
<u>CSA 2.91—96 (</u>]	R2011):	Pump Appliances	
<u>Z21.40.2/</u>		Air-conditioning and Heat Pump Appliances	
<u>CSA 2.92—96 (</u>]		(Thermal Combustion)	
<u>Z21.42—2014:</u>		Gas-fired Illuminating Appliances	
Z21.47/ CSA 2.3		Gas-fired Central Furnaces	
Z21.50/ CSA 2.2	2—16:	Vented Gas Fireplaces	
<u>Z21.54—2009:</u>		Gas Hose Connectors for Portable Outdoor Gas-	
		fired Appliances	
Z21.56/ CSA 4.7		Gas-fired Pool Heaters	
<u>Z21.58—18/</u>		Outdoor Cooking Gas Appliances	
<u>CSA 1.6—18:</u>			
Z21.60/ CSA 2.2	6—12.	Decorative Gas Appliances for Installation in Solid	
<u>L21.00/ CDT 2.2</u>		Fuel-burning Fireplaces	
Z21.69/ CSA 6.1		Connectors for Movable Gas Appliances	
Z21.75/ CSA 6.2		Connectors for Outdoor Gas Appliances and	
	<u> </u>	Manufactured Homes	
Z21.80/ CSA 6.2	2—11:	Line Pressure Regulators	
ANSI/ CSA FC		Stationary Fuel Cell Power Systems	
Z21.84—12:		Manually Listed, Natural Gas Decorative Gas	
		Appliances for Installation in Solid Fuel-burning	
		Fireplaces	
Z21.86/ CSA 2.3	2—08:	Gas-fired Vented Space Heating Appliances	
Z21.88/ CSA 2.3		Vented Gas Fireplace Heaters	
<u>Z21.91—07:</u>		Ventless Firebox Enclosures for Gas-fired	

	nerican National Standards Institute
<u>25</u>	West 43rd Street, 4th Floor
	w York, NY 10036
Standard referenced	<u>Title</u>
Z21.93/ CSA 6.30—1	3: Excess Flow Valves for Natural and LP Gas with
	Pressures up to 5 psig
Z21.97—12:	Outdoor Decorative Appliances
Z83.6—90 (R1998):	Gas-fired Infrared Heaters
Z83.8/ CSA 2.6-09:	Gas-fired Unit Heaters, Gas Packaged Heaters, G
	Utility Heaters and Gas-fired Duct Furnaces
Z83.19—01 (R2009):	Gas-fuel High-intensity Infrared Heaters
<u>Z83.20—08:</u>	Gas-fired Low-intensity Infared Heaters Outdoor
	Decorative Appliances
<u>Z97.1—2014:</u>	Safety Glazing Materials Used in Buildings-
	Safety Performance Specifications and Methods of
	Test
	PA—The Engineered Wood Association
	<u>11 South 19th</u>
Standard referenced	<u>coma, WA 98466</u> <u>Title</u>
ANSI/A190.1—2017:	Structural Glued-laminated Timber
<u>ANSI/</u>	Standard for Performance-rated Engineered Woo
APA PRP 210-2014	
ANSI/	Standard for Performance-rated Cross Laminated
<u>APA PRG 320—2017</u>	
A D TOT /	
ANSI/	
APA PRR 410—2016	Rim Boards
<u>APA PRR 410—2016</u> <u>ANSI/</u>	<u>Rim Boards</u> Standard for Performance-Rated Structural
APA PRR 410—2016 ANSI/ APA PRS 610.1—201	 <u>Rim Boards</u> <u>Standard for Performance-Rated Structural</u> <u>Insulated Panels in Wall Applications</u>
APA PRR 410—2016 ANSI/	<u>Rim Boards</u> Standard for Performance-Rated Structural
<u>APA PRR 410—2016</u> <u>ANSI/</u> <u>APA PRS 610.1—201</u> <u>APA E30—15:</u>	 <u>Rim Boards</u> <u>Standard for Performance-Rated Structural</u> <u>Insulated Panels in Wall Applications</u> <u>Engineered Wood Construction Guide</u>
APA PRR 410—2016 ANSI/ APA PRS 610.1—201 APA E30—15:	 <u>Rim Boards</u> <u>Standard for Performance-Rated Structural</u> <u>Insulated Panels in Wall Applications</u> <u>Engineered Wood Construction Guide</u> <u>American Society of Civil Engineers</u>
APA PRR 410—2016 ANSI/ APA PRS 610.1—201 APA E30—15:	 <u>Rim Boards</u> <u>Standard for Performance-Rated Structural</u> <u>Insulated Panels in Wall Applications</u> <u>Engineered Wood Construction Guide</u> <u>American Society of Civil Engineers</u> <u>Structural Engineering Institute</u>
APA PRR 410—2016 ANSI/ APA PRS 610.1—201 APA E30—15:	 <u>Rim Boards</u> <u>Standard for Performance-Rated Structural</u> <u>Insulated Panels in Wall Applications</u> <u>Engineered Wood Construction Guide</u> <u>American Society of Civil Engineers</u> <u>Structural Engineering Institute</u> <u>801 Alexander Bell Drive</u>
APA PRR 410—2016 ANSI/ APA PRS 610.1—201 APA E30—15:	 <u>Rim Boards</u> <u>Standard for Performance-Rated Structural</u> <u>Insulated Panels in Wall Applications</u> <u>Engineered Wood Construction Guide</u> <u>American Society of Civil Engineers</u> <u>Structural Engineering Institute</u>
APA PRR 410—2016 ANSI/ APA PRS 610.1—201 APA E30—15: ASCE/SEI Image: standard referenced	Rim Boards Standard for Performance-Rated Structural 3: Insulated Panels in Wall Applications Engineered Wood Construction Guide American Society of Civil Engineers Structural Engineering Institute 801 Alexander Bell Drive Reston, VA 20191-4400 Title
APA PRR 410—2016 ANSI/ APA PRS 610.1—201 APA E30—15: ASCE/SEI 1 1 1	Standard for Performance-Rated Structural 3: Insulated Panels in Wall Applications Engineered Wood Construction Guide American Society of Civil Engineers Structural Engineering Institute 801 Alexander Bell Drive Reston, VA 20191-4400

	rican Society of Civil Engineers
Struc	tural Engineering Institute
	Alexander Bell Drive
	on, VA 20191-4400
Standard referenced	Title
<u>24—14:</u>	Flood-resistant Design and Construction
32—17:	Design and Construction of Frost-protected
	Shallow Foundations
ASHRAE ASHRA	<u>AE</u>
<u>1791 T</u>	ullie Circle NE
Atlanta	<u>, GA 30329</u>
Standard referenced	Title
ASHRAE—2001:	2001 ASHRAE Handbook of Fundamentals
	for use in reference to Table 1105.5.2 (1) only
ASHRAE—2017:	ASHRAE Handbook of Fundamentals
A SLID A E 102 - 2010	Mathad of Tost for Determining Air Tightness of
<u>ASHRAE 193—2010</u> (BA 2014):	Method of Test for Determining Air Tightness of
<u>(RA 2014):</u>	HVAC Equipment
<u>34—2016:</u>	Designation and Safety Classification of
	<u>Refrigerants</u>
ASME <u>Americ</u>	an Society of Mechanical Engineers
	ark Avenue
<u>New Y</u>	<u>ork, NY 10016-5990</u>
Standard referenced	Title
ASME A17.1—2016/	Safety Code for Elevators and Escalators
CSA B44—16:	
<u>A18.1—2014:</u>	Safety Standard for Platforms and Stairway Chair
	Lifts
B1.20.1—2013:	Pipe Threads, General-purpose (Inch)
B16.33—2012:	Manually Operated Metallic Gas Valves for Use in
	Gas Piping Systems up to 125 psig (Sizes ¹ / ₂
	through 2)
<u>B16.44—2012:</u>	Manually Operated Metallic Gas Valves for Use in
	Above-ground Piping Systems up to 5 psi
<u>B36.10M</u> —2004(R2015):	Welded and Seamless Wrought-steel Pipe

ASME	American Society of Mechanical Engineers	
	Two Park Avenue	
	<u>New York, NY 10016-5990</u>	
Standard referen	nced <u>Title</u>	
<u>BPVC—2015:</u>	ASME Boiler and Pressure Vessel Code (Sections	
	I, II, IV, V, VI and VIII)	
<u>CSD-1—2016:</u>	Controls and Safety Devices for Automatically	
	Fired Boilers	
ASTM	ASTM International	
	100 Barr Harbor Drive, P.O. Box C700	
	West Conshohocken, PA 19428	
Standard referen	nced <u>Title</u>	
A36/A36M—14:	Specification for Carbon Structural Steel	
A53/A53M—12:	Specification for Pipe, Steel, Black and Hot-	
	dipped, Zinc-coated Welded and Seamless	
A106/A106M—14		
	for High-temperature Service	
A123/A123M—15		
	Galvanized) Coatings on Iron and Steel	
	Products	
A153/A153M—09		
	Iron and Steel Hardware	
<u>A167—99(2009):</u>	Specification for Stainless and Heat-resisting	
	Chromium-nickel Steel Plate, Sheet and Strip	
<u>A240/A240M—15</u>	5A: Standard Specification for Chromium and	
	Chromium-nickel Stainless Steel Plate, Sheet	
	and Strip for Pressure Vessels and for General	
	Applications	
<u>A254—12:</u>	Specification for Copper Brazed Steel Tubing	
<u>A268—2010:</u>	Standard Specification for Seamless and	
	Welded Ferritic and Martensitic Stainless Steel	
	Tubing for General Service	
<u>A269—2015:</u>	Standard Specification for Seamless and	
	Welded Austenitic Stainless Steel Tubing for	
	General Service	
<u>A307—14:</u>	Specification for Carbon Steel Bolts and Studs,	
	60,000 psi Tensile Strength	
A463/A463M—15	5: Standard Specification for Steel Sheet,	
	Aluminum-coated by the Hot-dip Process	
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Standard referen	nced	Title
A539—99:		Specification for Electric-resistance-welded
		Coiled Steel Tubing for Gas and Fuel Oil Lines
<u>A563—15:</u>		Standard Specification for Carbon and Alloy
		Steel Nuts
A615/A615M—2015aE1:		Specification for Deformed and Plain Carbon-
		steel Bars for Concrete Reinforcement
A641/A641M-0	9a(2014):	Specification for Zinc-coated (Galvanized)
		Carbon Steel Wire
A653/A653M—1	5:	Specification for Steel Sheet, Zinc-coated
		(Galvanized) or Zinc-iron Alloy-coated
		(Galvannealed) by the Hot-dip Process
A706/A706M—1	<u>5:</u>	Specification for Low-alloy Steel Deformed and
		Plain Bars for Concrete Reinforcement
A755/A755M-2	015:	Specification for Steel Sheet, Metallic Coated
		by the Hot-dip Process and Prepainted by the
		Coil-coating Process for Exterior Exposed
		Building Products
A792/A792M—10(2015):	<u>0(2015):</u>	Specification for Steel Sheet, 55% Aluminum-
		zinc Alloy-coated by the Hot-dip Process
<u>A875/A875M—1</u>	<u>3:</u>	Specification for Steel Sheet, Zinc-5%,
		Aluminum Alloy-coated by the Hot-dip Process
<u>A924/A924M—1</u>	<u>4:</u>	Standard Specification for General
		Requirements for Steel Sheet, Metallic-coated
	_	by the Hot-dip Process
<u>A996/A996M—1</u>	<u>5:</u>	Specifications for Rail-steel and Axle-steel
		Deformed Bars for Concrete Reinforcement
A1003/A1003M-	<u>–15:</u>	Standard Specification for Steel Sheet, Carbon,
		Metallic and Nonmetallic-coated for Cold-
D 42 2015 A		formed Framing Members
<u>B42—2015A:</u>		Specification for Seamless Copper Pipe,
D42 15		Standard Sizes
<u>B43—15:</u>		Specification for Seamless Red Brass Pipe,
		Standard Sizes
<u>B75/B75M—11:</u>		Specification for Seamless Copper Tube
<u>B88—14:</u> P101—12:		Specification for Seamless Copper Water Tube
<u>B101—12:</u>		Specification for Lead-coated Copper Sheet and
		Strip for Building Construction

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Standard referen	ced <u>Title</u>
<u>B135—10:</u>	Specification for Seamless Brass Tube
B209—14:	Specification for Aluminum and Aluminum-
	alloy Sheet and Plate
<u>B251—10:</u>	Specification for General Requirements for
	Wrought Seamless Copper and Copper-alloy
	Tube
<u>B302—12:</u>	Specification for Threadless Copper Pipe,
	Standard Sizes
<u>B306—13:</u>	Specification for Copper Drainage Tube (DWV)
<u>B370—12:</u>	Specification for Copper Sheet and Strip for
	Building Construction
B695—04(2009):	Standard Specification for Coatings of Zinc
	Mechanically Deposited on Iron and Steel
<u>B813—10:</u>	Specification for Liquid and Paste Fluxes for
	Soldering Applications of Copper and Copper
	Alloy Tube
<u>B828—02(2010):</u>	Practice for Making Capillary Joints by
	Soldering of Copper and Copper Alloy Tube
	and Fittings
<u>C5—10:</u>	Specification for Quicklime for Structural
	Purposes
<u>C22/C22M—2015</u>	
<u>C27—98(2013):</u>	Specification for Standard Classification of
	Fireclay and High-alumina Refractory Brick
<u>C28/C28M—10(2</u>	
<u>C33/C33M—13:</u>	Specification for Concrete Aggregates
<u>C34—13:</u>	Specification for Structural Clay Load-bearing
	<u>Wall Tile</u>
<u>C35/C35M</u> —(201	
055 00144	in Gypsum Plaster
<u>C55—2014A:</u>	Specification for Concrete Building Brick
<u>C56—13:</u>	Standard Specification for Structural Clay
	Nonloadbearing Tile
<u>C59/C59M—00(2</u>	
0(1)0(1) = 00/0	Molding Plaster
C61/C61M-00(2	015): Specification for Gypsum Keene's Cement

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<u>C4</u> J J f	West Conshohocken, PA 19428
Standard reference	ed <u>Title</u>
<u>C62—13A:</u>	<u>Standard Specification for Building Brick (Solid</u> Masonry Units Made from Clay or Shale)
<u>C73—14:</u>	Specification for Calcium Silicate Face Brick (Sand Lime Brick)
<u>C90—14:</u>	Specification for Load-bearing Concrete
	Masonry Units
<u>C91/C91M—12:</u>	Specification for Masonry Cement
<u>C94/C94M—15A:</u>	Standard Specification for Ready-mixed
	<u>Concrete</u>
<u>C126—15:</u>	Standard Specification for Ceramic Glazed
	Structural Clay Facing Tile, Facing Brick, and
	Solid Masonry Units
<u>C129—14A:</u>	Specification for Nonload-bearing Concrete
	Masonry Units
<u>C143/C143M—15:</u>	Test Method for Slump of Hydraulic Cement
G145 05	<u>Concrete</u>
<u>C145—85:</u>	Specification for Solid Load-bearing Concrete
	Masonry Units
<u>C150/C150M—15:</u>	Specification for Portland Cement
<u>C199—84(2011):</u>	Test Method for Pier Test for Refractory Mortar
<u>C203—05a(2012):</u>	Standard Test Methods for Breaking Load and
	Flexural Properties of Block-type Thermal
	Insulation
<u>C207—06(2011):</u>	Specification for Hydrated Lime for Masonry
	Purposes
<u>C208—12:</u>	Specification for Cellulosic Fiber Insulating
	Board
<u>C212—14:</u>	Standard Specification for Structural Clay
	Facing Tile
<u>C216—15:</u>	Specification for Facing Brick (Solid Masonry
	Units Made from Clay or Shale)
<u>C270—14A:</u>	Specification for Mortar for Unit Masonry
<u>C315—07(2011):</u>	Specification for Clay Flue Liners and Chimney Pots
C406/C406M—201	
C411—11:	Test Method for Hot-surface Performance of
	High-temperature Thermal Insulation

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Standard reference	ed <u>Title</u>
C475/C475M—15:	Specification for Joint Compound and Joint
	Tape for Finishing Gypsum Wallboard
<u>C476—10:</u>	Specification for Grout for Masonry
C503/C503M—202	-
2000/2000111 20	Stone
<u>C514—04(2014):</u>	Specification for Nails for the Application of
<u>C511 01(2011).</u>	Gypsum Wallboard
<u>C552—15:</u>	Standard Specification for Cellular Glass
<u>CJJZ 13.</u>	Thermal Insulation
C557—03(2009)e0	
<u>CJJ7</u> —03(2007)00	Gypsum Wallboard to Wood Framing
C568/C568M-202	
<u>CJ00/CJ00M</u> _20.	Dimension Stone
C578—15:	Specification for Rigid, Cellular Polystyrene
<u>CJ70—1J.</u>	Thermal Insulation
C587—04(2014):	Specification for Gypsum Veneer Plaster
<u>C595/C595M—14</u>	·
<u>C615/C615M—11</u> :	• • • • •
C(1)/C(1) = 10	Stone Stone doed Specification for Overta based
<u>C616/C616M—10</u> :	
	Dimension Stone
<u>C629/C629M—10:</u>	• • •
G(21 00/0014)	Stone
<u>C631—09(2014):</u>	Specification for Bonding Compounds for
0.645 14	Interior Gypsum Plastering
<u>C645—14:</u>	Specification for Nonstructural Steel Framing
G(50 15	<u>Members</u>
<u>C652—15:</u>	Specification for Hollow Brick (Hollow
	Masonry Units Made from Clay or Shale)
<u>C685/C685M—14</u> :	
	Batching and Continuous Mixing
<u>C726—12:</u>	Standard Specification for Mineral Wool Roof
	Insulation Board
<u>C728—15:</u>	Standard Specification for Perlite Thermal
	Insulation Board
<u>C744—14:</u>	Standard Specification for Prefaced Concrete

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Standard reference	d <u>Title</u>
<u>C836/C836M—15:</u>	Specification for High Solids Content, Cold
	Liquid-applied Elastomeric Waterproofing
	Membrane for Use with Separate Wearing
	Course
C841—03(2013):	Standard Specification for Installation of
	Interior Lathing and Furring
C842—05(2015):	Standard Specification for Application of
<u></u>	Interior Gypsum Plaster
C843—99(2012):	Specification for Application of Gypsum
	Veneer Plaster
C844—2015:	Specification for Application of Gypsum Base
	to Receive Gypsum Veneer Plaster
C847—14A:	Specification for Metal Lath
C887—13:	Specification for Packaged, Dry, Combined
	Materials for Surface Bonding Mortar
C897—15:	Specification for Aggregate for Job-mixed
	Portland Cement-based Plasters
C920—14A:	Standard Specification for Elastomeric Joint
	Sealants
C926—15B:	Specification for Application of Portland
	Cement-based Plaster
C933—14:	Specification for Welded Wire Lath
C946—10:	Standard Practice for Construction of Dry-
	Stacked, Surface-Bonded Walls
<u>C954—15:</u>	Specification for Steel Drill Screws for the
	Application of Gypsum Panel Products or Metal
	Plaster Bases to Steel Studs from 0.033 in (0.84
	mm) or to 0.112 in. (2.84 mm) in Thickness
C957/C957M—15:	Specification for High-solids Content, Cold
	Liquid-applied Elastomeric Waterproofing
	Membrane for Use with Integral Wearing
	Surface
<u>C1002—14:</u>	Specification for Steel Self-piercing Tapping
	Screws for the Application of Gypsum Panel
	Products or Metal Plaster Bases to Wood Studs
	or Steel Studs

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Standard referenc	ed <u>Title</u>
C1029—15:	Specification for Spray-applied Rigid Cellular
0102/ 101	Polyurethane Thermal Insulation
C1032—14:	Specification for Woven Wire Plaster Base
C1047 - 14a:	Specification for Accessories for Gypsum
<u> </u>	Wallboard and Gypsum Veneer Base
C1063—15A:	Specification for Installation of Lathing and
	Furring to Receive Interior and Exterior
	Portland Cement-based Plaster
C1088—14:	Standard Specification for Thin Veneer Brick
	Units Made from Clay or Shale
C1107/C1107M—1	
	Hydraulic-cement Grout (Nonshrink)
C1116/C116M—10	(2015): Standard Specification for Fiber-reinforced
	Concrete and Shotcrete
<u>C1157—11/C1157</u>	M—11: Standard Performance Specification for
	Hydraulic Cement
<u>C1167—11:</u>	Specification for Clay Roof Tiles
<u>C1177/C1177M—1</u>	3: Specification for Glass Mat Gypsum Substrate
	for Use as Sheathing
C1178/C1178M—1	3: Specification for Glass Mat Water-resistant
	Gypsum Backing Panel
<u>C1186—08(2012):</u>	Specification for Flat Fiber Cement Sheets
<u>C1261—13:</u>	Specification for Firebox Brick for Residential
	Fireplaces
C1278/C1278M—0	
	Panels
<u>C1283—11:</u>	Practice for Installing Clay Flue Lining
<u>C1288—14:</u>	Standard Specification for Discrete Nonasbestos
	Fiber-cement Interior Substrate Sheets
<u>C1289—15:</u>	Standard Specification for Faced Rigid Cellular
	Polyisocyanurate Thermal Insulation Board
<u>C1325—14:</u>	Standard Specification for Nonasbestos Fiber-
	mat Reinforced Cement Interior Substrate
G1000/G10000	Sheets Backer Units
<u>C1328/C1328M—1</u>	
<u>C1363—11:</u>	The Standard Test Method for Thermal
	Performance of Building Materials and

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Standard reference	ed <u>Title</u>
	Envelope Assemblies by Means of a Hot Box
	Apparatus
C1364—10B:	Standard Specification for Architectural Cast
	Stone
C1396/C1396M-2	2014A: Specification for Gypsum Board
<u>C1405—15:</u>	Standard Specification for Glazed Brick (Single
	Fired, Brick Units)
<u>C1492—03(2009):</u>	Specification for Concrete Roof Tile
<u>C1513—2013:</u>	Standard Specification for Steel Tapping Screws
	for Cold-formed Steel Framing Connections
<u>C1634—15:</u>	Standard Specification for Concrete Facing
	<u>Brick</u>
C1658/C1658M-1	3: <u>Standard Specification for Glass Mat Gypsum</u>
	Panels
<u>C1668—13a:</u>	Standard Specification for Externally Applied
	Reflective Insulation Systems on Rigid Duct in
	Heating, Ventilation, and Air Conditioning
	(HVAC) Systems
<u>C1670/1670M—16</u>	
	Manufactured Stone Masonry Veneer Units
<u>C1691—11:</u>	Standard Specification for Unreinforced
	Autoclaved Aerated Concrete (AAC) Masonry
	<u>Units</u>
<u>C1693—11:</u>	Standard Specification for Autoclaved Aerated
01866 10	Concrete (AAC)
<u>C1766—13:</u>	Standard Specification for Factory-Laminated
$D_{41}/D_{41}M = 2011.$	Gypsum Panel Products
<u>D41/D41M</u> —2011:	
D42/D42NA 2000/	Roofing, Dampproofing and Waterproofing
D43/D43M-2000(
$D \rightarrow C / D \rightarrow C M = 00.$	Roofing, Dampproofing and Waterproofing
D226/D226M—09:	
D227/D227M 02/	(2011)e1: Specification for Coal Tar Saturated (Organic
D227/D227M-03(
D312/D321M—15:	Felt) Used in Roofing and Waterproofing Specification for Asphalt Used in Roofing
D422—63(2007)E2	· · · ·
D + 22 - 03(2007)E2	

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D449/D449M—03(2014)E1:	Specification for Asphalt Used in
	Dampproofing and Waterproofing
D450/D450M—07(2013)E1:	Specification for Coal-tar Pitch Used in
	Roofing, Dampproofing and Waterproofing
D1227—13:	Specification for Emulsified Asphalt Used as a
	Protective Coating for Roofing
D1248—12:	Specification for Polyethylene Plastics
	Extrusion Materials for Wire and Cable
D1693—15:	Test Method for Environmental Stress-cracking
	of Ethylene Plastics
<u>D1784—11:</u>	Standard Specification for Rigid Poly (Vinyl
	Chloride) (PVC) Compounds and Chlorinated
	Poly (Vinyl Chloride) (CPVC) Compounds
D1863/D1863M-05(2011)e1	Specification for Mineral Aggregate Used in
	Built-up Roofs
D1970/D1970M—2015A:	Specification for Self-adhering Polymer
	Modified Bitumen Sheet Materials Used as
	Steep Roofing
	Underlayment for Ice Dam Protection
D2178/D2178M—15:	Specification for Asphalt Glass Felt Used in
	Roofing and Waterproofing
<u>D2412—11:</u>	Test Method for Determination of External
	Loading Characteristics of Plastic Pipe by
	Parallel-plate Loading
<u>D2447—03:</u>	Specification for Polyethylene (PE) Plastic Pipe
	Schedules 40 and 80, Based on Outside
D2512 2014-1	Diameter
<u>D2513—2014e1:</u>	Specification for Gas Pressure Pipe, Tubing and
$D_{2}(2)(D_{2}(2)) = 0.4(2012) = 1$	<u>Fittings</u> Specification for Asphalt seturated and Costed
$D_{2020}/D_{2020M} = 04(2012)e1$	Specification for Asphalt-saturated and Coated
$D_{2682} = 14$	Organic Felt Base Sheet Used in Roofing
<u>D2683—14:</u>	Specification for Socket-type Polyethylene Fittings for Outside Diameter controlled
	Fittings for Outside Diameter-controlled
D2822/D2822M 05/2011)~1.	Polyethylene Pipe and Tubing
D2822/D2822M—05(2011)e1:	Specification for Asphalt Roof Cement, Asbestos Containing
	Asuesius Containing

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Standard reference	ed <u>Title</u>
D2823/D2823M-0	5(2011)e1: Specification for Asphalt Roof Coatings,
	Asbestos Containing
D2824/D2824M	
	Roof Coatings, Nonfibered, Asbestos Fibered
	and Fibered without Asbestos
D2898—10:	Test Methods for Accelerated Weathering of
	Fire-retardant-treated Wood for Fire Testing
D3019—08:	Specification for Lap Cement Used with
	Asphalt Roll Roofing, Nonfibered, Asbestos
	Fibered and Nonasbestos Fibered
D3161/D3161M—	
<u></u>	Slope Roofing Products (Fan Induced Method)
D3201/D3201M—	
	retardant Wood and Wood-base Products
D3309—96a(2002)	
20003 300(2002)	and Cold-water Distribution System
D3350—14:	Specification for Polyethylene Plastic Pipe and
	Fitting Materials
D3462/D3462M—	
	Glass Felt and Surfaced with Mineral Granules
D3468/D3468M—9	9(2013)E1: Specification for Liquid-applied Neoprene and
	Chlorosulfanated Polyethylene Used in Roofing
	and
	Waterproofing
D3679—13:	Specification for Rigid Poly (Vinyl Chloride)
	(PVC) Siding
D3737—2012:	Practice for Establishing Allowable Properties
	for Structural Glued Laminated Timber
	(Glulam)
D3747—79(2007):	Specification for Emulsified Asphalt Adhesive
`, <i>, , , ,</i>	for Adhering Roof Insulation
D3909/D3909M—	
	Felt) Surfaced with Mineral Granules
D4022/D4022M—20	0/(2012)er. Specification for Coal Tar Root Cement.
D4022/D4022M—20	07(2012)e1: Specification for Coal Tar Roof Cement, Asbestos Containing
<u>D4022/D4022M—2(</u> D4318—10E1:	<u>Asbestos Containing</u> Test Methods for Liquid Limit, Plastic Limit

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D4434/D4434M—12	2: Specification for Poly (Vinyl Chloride) Sheet
	Roofing
D4479/D4479M-07	
	asbestos-free
D4586/D4586M-07	\cdot \cdot \cdot \cdot \cdot
	asbestos-free
D4601/D4601M-04	
	Base Sheet Used in Roofing
D4637/D4637M—14	
	ply Roof Membrane
<u>D4829—11:</u>	Test Method for Expansion Index of Soils
D4869/D4869M—1:	5: Specification for Asphalt-saturated (Organic
	Felt) Underlayment Used in Steep Slope
	Roofing
D4897/D4897M-0	1(2009): Specification for Asphalt Coated Glass-fiber
	Venting Base Sheet Used in Roofing
D4990—1997a(2013	3): Specification for Coal Tar Glass Felt Used in
	Roofing and Waterproofing
D5019—07a:	Specification for Reinforced Nonvulcanized
	Polymeric Sheet Used in Roofing Membrane
D5055—13E1:	Specification for Establishing and Monitoring
	Structural Capacities of Prefabricated Wood I-
	joists
D5456—14B:	Standard Specification for Evaluation of
	Structural Composite Lumber Products
D5516—09:	Test Method for Evaluating the Flexural
	Properties of Fire-retardant-treated Softwood
	Plywood Exposed to the Elevated Temperatures
D5643/D5643M-06	6(2012)e1: Specification for Coal Tar Roof Cement
	<u>Asbestos-free</u>
D5664—10:	Test Methods For Evaluating the Effects of
	Fire-retardant Treatments and Elevated
	Temperatures on Strength Properties of Fire-
	retardant-treated Lumber
D5665/D5665M—99a	a(2014)E1: Specification for Thermoplastic Fabrics Used in

tandard referenced Title 15726—98(2013): Specification for Thermoplastic Fabrics Used in Hot-applied Roofing and Waterproofing 16083—05e01: Specification for Liquid-applied Acrylic Coating Used in Roofing 16162/D6162M—2000a(2015)E1: Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements 16163/D6163M—2000(2015)E1: Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Glass Fiber Reinforcements 16164/D6164M—11: Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Polyester Reinforcements 16222/D6222M—11: Specification for Atactic Polypropylene (APP) Modified Bituminous Sheet Materials Using Polyester Reinforcements 16223/D6223M—02(2009)E1: Specification for Atactic Polypropylene (APP) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcement 16298—13: Specification for Fiberglass-reinforced Styrene Butadiene Styrene (SBS) Modified Bituminous Sheets with a Factory Applied Metal Surface 16305—08(2015)E1: Practice for Calculating Bending Strength Design Adjustment Factors for Fire-retardant- treated Plywood Roof Sheathing		<u>ASTM International</u> 100 Barr Harbor Drive, P.O. Box C700
25726—98(2013): Specification for Thermoplastic Fabrics Used in Hot-applied Roofing and Waterproofing Specification for Liquid-applied Acrylic Coating Used in Roofing 66083—05e01: Specification for Liquid-applied Acrylic Coating Used in Roofing 6162/D6162M—2000a(2015)E1: Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements 6163/D6163M—2000(2015)E1: Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Glass Fiber Reinforcements 66164/D6164M—11: Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Polyester Reinforcements 66222/D6222M—11: Specification for Atactic Polypropylene (APP) Modified Bituminous Sheet Materials Using Polyester Reinforcements 66223/D6223M—02(2009)E1: Specification for Atactic Polypropylene (APP) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements 66298—13: Specification for Fiberglass-reinforced Styrene Butadiene Styrene (SBS) Modified Bituminous Sheets with a Factory Applied Metal Surface 66305—08(2015)E1: Practice for Calculating Bending Strength Design Adjustment Factors for Fire-retardant- treated Plywood Roof Sheathing 66380/D6380—03(2013)E1: Standard Specification for Asphalt Roll Roofing (Organic Felt) 6644—03a(2009)e1: Standard Specification for Liquid-applied Silicone Coating Used in Spray Polyurethane		West Conshohocken, PA 19428
Hot-applied Roofing and Waterproofing6083—05e01:Specification for Liquid-applied Acrylic Coating Used in Roofing6162/D6162M—2000a(2015)EI:Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements6163/D6163M—2000(2015)EI:Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Glass Fiber Reinforcements6164/D6164M—11:Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Polyester Reinforcements6222/D6222M—11:Specification for Atactic Polypropylene (APP) Modified Bituminous Sheet Materials Using Polyester Reinforcements6223/D6223M—02(2009)EI:Specification for Atactic Polypropylene (APP) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements6298—13:Specification for Fiberglass-reinforced Styrene Butadiene Styrene (SBS) Modified Bituminous Sheets with a Factory Applied Metal Surface D6305—08(2015)E1:6380/D6380—03(2013)E1:Standard Specification for Asphalt Roll Roofing (Organic Felt)6644—03a(2009)e1:Standard Specification for Expandable Foam Adhesives for Fastening Gypsum Wallboard to Wood Framing6694/D6694M—08(2013)E1:Standard Specification for Liquid-applied Silicone Coating Used in Spray Polyurethane	Standard reference	<u>d</u> <u>Title</u>
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Silicone Coating Used in Spray Polyurethane		
	<u>D0094/D0094M-08</u>	
Foam Koofing Systems		• • •
		Foam Koofing Systems

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	100 Barr Harbor Drive, P.O. Box C700	
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Standard reference	<u>ed Title</u>	
D6754/D6754M—1	0: <u>Standard Specification for Ketone-ethylene-</u> ester-based Sheet Roofing	
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D6947/D6947M—07	polyolefin-based Sheet Roofing	
	Moisture Cured Polyurethane Coating Used in Spray	
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D7425/D7425M—1		
<u>D7672—14:</u>	Standard Specification for Evaluating Structura Capacities of Rim Board Products and	
<u>D7793—13:</u>	<u>Assemblies</u> Standard Specification for Insulated Vinyl Siding	
<u>E84—2016:</u>	Standard Test Method for Surface Burning Characteristics of Building Materials	
<u>E96/E96M—2015:</u>	<u>Test Method for Water Vapor Transmission of</u> Materials	
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	Leakage through Exterior Windows, Curtai	n
	Walls and Doors Under Specified Pressure	
	Differences across the Specimen	
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	Exterior Windows, Curtain Walls and Door	s by
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	Windows, Skylights, Doors and Curtain Wa	alls
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<u>E814—2013A:</u>	Standard Test Method for Fire Tests of	
	Penetration Firestop Systems	
<u>E970—14:</u>	Standard Test Method for Critical Radiant I	Flux
	of Exposed Attic Floor Insulation Using a	
	Radiant Heat Energy Source	
<u>E1509—12:</u>	Standard Specification for Room Heaters, P	<u>'ellet</u>
	Fuel-burning Type	
E1602-03(2010)	e1: Guide for Construction of Solid Fuel Burnin	ng
	Masonry Heaters	
<u>E1827—11:</u>	Standard Test Methods for Determining	
	Airtightness of Building Using an Orifice	
	<u>Blower Door</u>	
<u>E1886—13A:</u>	Test Method for Performance Impact Protect	
	Systems Impacted by Missile(s) and Expose	ed to
	Cyclic Pressure Differentials	
E1996—2014a:	Standard Specification for Performance of	
	Exterior Windows, Curtain Walls, Doors an	<u>ıd</u>
	Impact Protective Systems Impacted by	
	Windborne Debris in Hurricanes	
E2178—2013:	Standard Test Method for Air Permeance of	<u>f</u>
	Building Materials	

A CIEDRAL ASTM In	ternational
	Harbor Drive, P.O. Box C700
	Ishohocken, PA 19428
Standard referenced	Title
	Standard Describes for Section Properties and
<u>E2231—15:</u>	Standard Practice for Specimen Preparation and
	Mounting of Pipe and Duct Insulation Materials
F2272 02(2011)	to Assess Surface Burning Characteristics
<u>E2273—03(2011):</u>	Standard Test Method for Determining the
	Drainage Efficiency of Exterior Insulation and
	Finish Systems (EIFS) Clad Wall Assemblies
E2568—09e1:	Standard Specification for PB Exterior
	Insulation and Finish Systems
E2570/E2570M-07(2014)E1:	Standard Test Methods for Evaluating Water-
	resistive Barrier (WRB) Coatings Used Under
	Exterior Insulation and Finish Systems (EIFS)
	or EIFS with Drainage
<u>E2634—11(2015):</u>	Standard Specification for Flat Wall Insulating
	Concrete Form (ICF) Systems
<u>F844—07a(2013):</u>	Standard Specification for Washers, Steel, Plain
	(Flat), Unhardened for General Use
<u>F876—15A:</u>	Specification for Cross-linked Polyethylene
	(PEX) Tubing
<u>F877—2011A:</u>	Specification for Cross-linked Polyethylene
	(PEX) Plastic Hot- and Cold-water Distribution
	<u>Systems</u>
<u>F1055—13:</u>	Specification for Electrofusion Type
	Polyethylene Fittings for Outside Diameter
	Controlled Polyethylene and Crosslinked
	Polyethylene Pipe and Tubing
<u>F1281—11:</u>	Specification for Cross-linked
	Polyethylene/Aluminum/Cross-linked
	Polyethylene (PEX-AL-PEX) Pressure Pipe
F1282—10:	Specification for
	Polyethylene/Aluminum/Polyethylene (PE-AL-
	PE) Composite Pressure Pipe
<u>F1554—15:</u>	Specification for Anchor Bolts, Steel, 36, 55 and
	105-ksi Yield Strength
<u>F1667—15:</u>	Specification for Driven Fasteners, Nails,
	Spikes and Staples
<u>F1807—15:</u>	Specification for Metal Insert Fittings Utilizing
	a Copper Crimp Ring for SDR9 Cross-linked

ASTM	ASTM International
ADIM	100 Barr Harbor Drive, P.O. Box C700
	West Conshohocken, PA 19428
Standard referen	nced <u>Title</u>
	Polyethylene (PEX) Tubing and SDR9
	Polyethylene of Raised Temperature (PE-RT)
	Tubing
F1924—12:	Standard Specification for Plastic Mechanical
<u>11)24</u> —12.	Fittings for Use on Outside Diameter Controlled
	Polyethylene Gas Distribution Pipe and Tubing
E1060 15.	
<u>F1960—15:</u>	Specification for Cold Expansion Fittings with
	PEX Reinforcing Rings for Use with Cross- linked Polyethylong (PEX) Tubing
E1070 10E1.	linked Polyethylene (PEX) Tubing
<u>F1970—12E1:</u>	Standard Specification for Special Engineered
	Fittings, Appurtenances or Valves for Use in
	Poly (Vinyl Chloride) (PVC) or Chlorinated
F1072 12F1	Poly (Vinyl Chloride) (CPVC) Systems
<u>F1973—13E1:</u>	Standard Specification for Factory Assembled
	Anodeless Risers and Transition Fittings in
	Polyethylene (PE) and Polyamide 11 (PA 11)
	Fuel Gas Distribution Systems
<u>F 2090—17:</u>	Specification for Window Fall Prevention
	Devices with Emergency Escape (Egress)
	Release Mechanisms
<u>F2098—08:</u>	Standard Specification for Stainless Steel
	Clamps for Securing SDR9 Cross-linked
	Polyethylene (PEX) Tubing to Metal Insert and
	Plastic Insert Fittings
<u>F2389—15:</u>	Standard for Pressure-rated Polypropylene (PP)
	Piping Systems
<u>F2623—14:</u>	Standard Specification for Polyethylene of
	Raised Temperature (PE-RT) SDRG Tubing
<u>F2735—09:</u>	Standard Specification for Plastic Insert Fittings
	for SDR9 Cross-linked Polyethylene (PEX) and
	Polyethylene of Raised Temperature (PE-RT)
	Tubing
<u>F2769—14:</u>	Polyethylene or Raised Temperature (PE-RT)
	Plastic Hot and Cold-Water Tubing and
	Distribution Systems

ASTM		nternational Harbor Drive, P.O. Box C700
		nshohocken, PA 19428
Standard referenc		Title
F2806—10(2015):		Standard Specification for Acrylonitrile-
		butadiene-styrene (ABS) Plastic Pipe (Metric
		<u>SDR-PR)</u>
F2945—2015:		Standard Specification for Polyamide 11 Gas
		Pressure Pipe, Tubing and Fittings
<u>F2969—12:</u>		Standard Specification for Acrylonitrile-
		butadiene-styrene (ABS) IPS Dimensioned
		Pressure Pipe
AWC		n Wood Council
		ctin Circle SE, Suite 201
		, VA 20175
Standard reference	ed	<u>Title</u>
AWC STJR-2015	<u>:</u>	Span Tables for Joists and Rafters
ANSI/AWC WFCM	<u>/I—2018:</u>	Wood Frame Construction Manual for One- and
		<u>Two-family Dwellings</u>
ANSI/AWC NDS-	<u>-2018:</u>	National Design Specification (NDS) for Wood
		Construction—with 2018 Supplement
ANSI/AWC PWF-	<u>–2015:</u>	Permanent Wood Foundation Design Specification
	American	
AWPA	-	<u>1 Wood Protection Association</u>
<u>AWPA</u>	P.O. Box	361784
	<u>P.O. Box</u> Birmingh	<u>361784</u> am, AL 35236-1784
<u>AWPA</u> <u>Standard referenc</u>	<u>P.O. Box</u> Birmingh	361784
	<u>P.O. Box</u> Birmingh	<u>361784</u> am, AL 35236-1784
Standard referenc	<u>P.O. Box</u> Birmingh	<u>361784</u> ham, AL 35236-1784 Title
<u>Standard referenc</u> <u>C1—03:</u>	<u>P.O. Box</u> Birmingh	<u>361784</u> ham, AL 35236-1784 <u>Title</u> <u>All Timber Products—Preservative Treatment</u>
<u>Standard referenc</u> <u>C1—03:</u>	<u>P.O. Box</u> Birmingh	361784 aam, AL 35236-1784 Title All Timber Products—Preservative Treatment by Pressure Processes
Standard referenc	<u>P.O. Box</u> Birmingh	361784 aam, AL 35236-1784 Title All Timber Products—Preservative Treatment by Pressure Processes Standard for the Care of Preservative-treated
<u>Standard referenc</u> <u>C1—03:</u> <u>M4—16:</u>	<u>P.O. Box</u> Birmingh	361784 nam, AL 35236-1784 Title All Timber Products—Preservative Treatment by Pressure Processes Standard for the Care of Preservative-treated Wood Products

8669 N		n Welding Society
		<u>V 36 Street, #130</u>
		FL 33166
Standard reference	ced	Title
ANSI/AWS		Specification for Fluxes for Brazing and Braze
A5.31M/A5.31—2	2012:	Welding Edition: 2nd
<u> </u>		
AWWA	America	n Water Works Association
	<u>6666 We</u>	est Quincy Avenue
	Denver,	<u>CO 80235</u>
Standard reference	ced	Title
C903—16:		Polyethylene-aluminum-polyethylene (PE-AL-
		PE) Composite Pressure Pipe, $12 \text{ mm} (\frac{1}{2} \text{ in.})$
		through 50 mm (2 in.), for
		Water Service
CEN	Europea	n Committee for Standardization (EN)
	Central S	<u>Secretariat</u>
	Rue de S	Stassart 36
	<u>B-10 50</u>	Brussels
Standard reference	ced	Title
EN 15250-2007:		Slow Heat Release Appliances Fired by Solid
<u></u>		Fuel Requirements and Test Methods
CPA	-	ite Panel Association
		eerfield Avenue, Suite 306
		<u>g, VA 20176</u>
Standard reference	<u>ced</u>	Title
ANSI A135.4—20	12:	Basic Hardboard
ANSI A135.5—20	12:	Prefinished Hardboard Paneling
A NOT A 105 6 00	10	

ANSI A135.5—2012:	Prefinished Hardboard Paneling
ANSI A135.6-2012:	Engineered Wood Siding
<u>ANSI A135.7—2012:</u>	Engineered Wood Trim
<u>A208.1—2016:</u>	Particleboard

CPSC	-	er Product Safety Commission
		t-West Highway
		, MD 20814
Standard reference	ed	<u>Title</u>
16 CFR, Part 1201	<u>—(2002):</u>	Safety Standard for Architectural Glazing
16 CFR, Part 1209	<u>—(2002):</u>	Interim Safety Standard for Cellulose Insulation
16 CFR, Part 1404	-(2002):	Cellulose Insulation
CSA	CSA Gro	-
		t Pleasant Valley Road
		d, OH 44131-5516
Standard reference	ed	Title
AAMA/WDMA/C	SA	North American Fenestration Standard/
101/I.S.2/A440—1		Specification for Windows, Doors and Unit
101/1002/11110	<u></u>	Skylights
ANSI/CSA FC I	2014.	Fuel Cell Technologies—Part 3-100;
	2011.	Stationary fuel cell power systems-Safety
ASME A17.1/		Safety Code for Elevators and Escalators
<u>CSA B44—2016:</u>		Sarory Code for Life fators and Liseanators
CSA 8—93:		Requirements for Gas Fired Log Lighters for
<u>conto 75.</u>		Wood Burning Fireplaces
B44—2016:		Safety Code for Elevators and Escalators
B55.1—2015:		Test Method for Measuring Efficiency and Pressur
<u>D0011 2010.</u>		Loss of Drain Water Heat Recovery Units
B55.2—2015:		Drain Water Heat Recovery Units
B137.9—16:		Polyethylene/Aluminum/Polyethylene (PE-AL-
		PE) Composite Pressure Pipe Systems
B137.10—13:		Cross-linked Polyethylene/Aluminum/Cross-
		linked Polyethylene (PE-AL-PE) Composite
		Pressure Pipe Systems
<u>B137.18—13:</u>		Polyethylene of Raised Temperature (PE-RT)
		Tubing Systems for Pressure Applications
C22.2 No. 218.1—		Spas, Hot Tubs and Associated Equipment
M89(R2011):		<u> </u>
<u>C22.2 No. 236—15:</u> CSA C448 Series—16:		Heating and Cooling Equipment
		Design and Installation of Earth Energy System
CSA 0325—07:		Construction Sheathing
0437-Series—93:		Standards on OSB and Waferboard (Reaffirmed
		summer do on ose and marchieldourd (realimited

CSA	CSA C	Group
CDA		East Pleasant Valley Road
		and, OH 44131-5516
Standard refere	nced	<u>Title</u>
<u>CAN/CSA/C22.2</u> 60335-2-40—20		Safety of Household and Similar Electrical Appliances, Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers
<u>CSSB</u>	P.O. B	Shake & Shingle Bureau Box 1178
Standard rafara		s, WA 98295-1178
Standard refere	<u>ncea</u>	Title
<u>CSSB—97:</u>		Grading and Packing Rules for Western Red Cedar Shakes and Western Red Shingles of the Cedar Shake and Shingle Bureau
DASMA	1300 St Clevela	Access Systems Manufacturers Association Internation umner Avenue and, OH 44115-2851
Standard refere	nced	<u>Title</u>
<u>105—2016:</u>		Test Method for Thermal Transmittance and Ai Infiltration of Garage Doors and Rolling Doors
<u>108—2017:</u>		Standard Method for Testing Garage Doors Rolling Doors and Flexible Doors; Determination of Structural Performance Under Uniform Stati Air Pressure Difference
<u>115—2016:</u>		Standard Method for Testing Sectional Garag Doors, Rolling Doors and Flexible Doors Determination of Structural Performance Unde Missile Impact and Cyclic Wind Pressure
DOC	1401 C	<u>I States Department of Commerce</u> Constitution Avenue, NW ngton, DC 20230
Standard refere	nced	Title
<u>PS 1—09:</u>		Structural Plywood

<u>PS 2—10:</u>		Performance Standard for Wood-based
DC 20 05.		Structural-use Panels
<u>PS 20—05:</u>		American Softwood Lumber Standard
DOTn	<u>1200 Nev</u> East Buil	bartment of Transportation w Jersey Avenue SE Iding, 2nd floor ton, DC 20590
Standard reference		Title
<u>49 CFR, Parts 192</u> <u>192.283 (b) (20</u>		Transportation of Natural and Other Gas by Pipeline: Minimum Federal Safety Standards
FEMA	500 C St	Emergency Management Agency reet SW ton, DC 20472
Standard reference	ced	Title
<u>FEMA TB-2—08:</u> <u>FEMA TB-11—01</u>	<u>:</u>	Flood Damage-resistant Materials Requirements Crawlspace Construction for Buildings Located in Special Flood Hazard Area
<u>FM</u>	<u>1151 Bos</u> P.O. Box	rters Office ston-Providence Turnpike
Standard reference	ced	Title
<u>4450—(1989):</u>		Approval Standard for Class 1 Insulated Steel Deck Roofs—with Supplements through July 1992
<u>4880—(2015):</u>		Approval Standard for Class 1 Rating of Building Panels or Interior Finish Materials
<u>GA</u>	<u>6525 Bel</u>	Association crest Road, Suite 480 lle, MD 20782
Standard reference	ced	Title
<u>GA-253—2016:</u>		Application of Gypsum Sheathing

	Hardwo	od Plywood & Veneer Association
<u>HPVA</u>		ichael Faraday Drive
		Virginia 20190
Standard refere		Title
<u>ANSI/HPVA HP</u>	-1—2016:	American National Standard for Hardwood and Decorative Plywood
HVI	1000 No	Ventilating Institute orth Rand Road Suite 214 nda, Il 60084
Standard refere		Title
<u>916—09</u>		Airflow Test Procedure
ICC	500 Nev 6th Floo Washin	<u>ional Code Council, Inc.</u> w Jersey Avenue NW or gton, DC 20001
Standard refere	nced	<u>Title</u>
ANSI/RESNET/I 2014:	ICC 301—	Standard for the Calculation and Labeling of the Energy Performance of Low-Rise Residential Buildings using the Energy Rating Index, March 7, 2014, republished 2016
ANSI/RESNET/	ICC 380—	Standard for Testing Airtightness of Building
<u>2016:</u>		Enclosures, Airtightness of Heating and Cooling Air Distribution and Airflow of Mechanical Ventilation Systems
ICC/ANSI A117	.1—09:	Accessible and Usable Buildings and Facilities
<u>ICC 400—17:</u>		Standard on the Design and Construction of Log
<u>ICC 500—14:</u>		<u>Structures</u> <u>ICC/NSSA Standard on the Design and</u> Construction of Storm Shelters
<u>ICC 600—14:</u>		Standard for Residential Construction in High-
<u>ICC 900/SRCC 3</u> <u>ICC 901/SRCC 1</u> <u>IEBC—18:</u> IECC—18:		

<u>ICC</u>	International Code Council, Inc.
	500 New Jersey Avenue NW
	<u>6th Floor</u> Washington, DC 20001
Standard refere	
Stanuaru Telere.	
<u>IECC—06:</u>	International Energy Conservation Code [®] for u
	with 1101.6 only.
<u>IFGC—18:</u>	International Fuel Gas Code [®]
IEEE	Institute of Electrical and Electronic Engineers, Inc.
	<u>3 Park Avenue, 17th Floor</u>
	<u>New York, NY 10016-5997</u>
Standard refere	nced <u>Title</u>
<u>515.1—2012:</u>	IEEE Standard for the Testing, Design,
<u></u>	Installation and Maintenance of Electrical
	Resistance Trace Heating for Commercial
	Applications
ISO	International Organization for Standardization
150	Chemin de Blandonnet 8
	<u>CP 401</u>
	<u>1214 Vernier</u>
	Geneva, Switzerland
Standard refere	nced <u>Title</u>
8336—2009:	Fibre-cement Flat Sheets-product Specification
0550 2007.	and Test Methods
15874—2002:	Polypropylene Plastic Piping Systems for Hot
10011 2002.	and Cold Water Installations
MSS	Manufacturers Standardization Society of
	the Valve and Fittings Industry
	<u>127 Park Street, NE</u>
	<u>Vienna, VA 22180</u>
Standard refere	nced <u>Title</u>
<u>SP-58—09:</u>	Pipe Hangers and Supports—Materials, Design,
	Manufacture, Selection, Application and
	Installation
	Installation

NAIMA	North American Insulation Manufacturers Association <u>11 Canal Center Plaza, Suite 101</u> <u>Alexandria, VA 22314</u>
Standard refere	enced <u>Title</u>
<u>AH 116—09:</u>	Fibrous Glass Duct Construction Standards, Fifth Edition
NFPA	National Fire Protection Association <u>1 Batterymarch Park</u> Quincy, MA 02169-7471
Standard refere	
<u>13—16:</u> <u>13D—16:</u>	Standard for Installation of Sprinkler Systems Standard for the Installation of Sprinkler Systems in One- and Two-family Dwellings and
<u>13R—16:</u>	<u>Manufactured Homes</u> <u>Standard for the Installation of Sprinkler Systems</u> in Low-Rise Residential Occupancies
<u>30-15</u> <u>31—16:</u>	Flammable and combustible liquids code Standard for the Installation of Oil-burning
<u>37-10</u>	<u>Equipment</u> <u>Standard for the installation and use of stationary</u> <u>combustion engines and gas turbines</u>
<u>58—17:</u> 70—17:	Liquefied Petroleum Gas Code National Electrical Code
$\frac{72-16}{85-15}$	National Fire Alarm and Signaling Code Boiler and Combustion Systems Hazards Code
<u>110-10</u> <u>111-10</u>	<u>Standard for emergency and standby power systems</u> <u>Standard on stored electrical energy emergency</u> <u>and standby power systems</u>
<u>211—16:</u>	Standard for Chimneys, Fireplaces, Vents and Solid Fuel Burning Appliances
<u>259—18:</u>	Standard for Test Method for Potential Heat of Building Materials
<u>275—17:</u>	Standard Method of Fire Tests for the Evaluation of Thermal Barriers
<u>286—15:</u> <u>501—17:</u>	<u>Standard Methods of Fire Tests for Evaluating</u> <u>Contribution of Wall and Ceiling Interior Finish to</u> <u>Room Fire Growth</u> <u>Standard on Manufactured Housing</u>

NFPA	Nationa	al Fire Protection Association
	1 Batte	rymarch Park
	Quincy	, MA 02169-7471
Standard refer	enced	Title
720—15:		Standard for the Installation of Carbon Monoxide
		(CO) Detectors and Warning Equipment
853—15:		Standard on the Installation of Stationary Fuel Cell
		Power Systems
	Nationa	al Fenestration Rating Council, Inc.
NFRC	6305 Iv	vy Lane, Suite 140
	050511	y Lane, Buile 140
		elt, MD 20770
Standard refer	Greenb	
	Greenb	elt, MD 20770 Title
Standard refer	Greenb	elt, MD 20770
Standard refer	Greenb	elt, MD 20770 Title Procedure for Determining Fenestration Products <u>U-Factors</u>
<u>Standard reference</u> 100—2017:	Greenb	elt, MD 20770 Title Procedure for Determining Fenestration Products <u>U-Factors</u> Procedure for Determining Fenestration Product
<u>Standard reference</u> 100—2017:	Greenb	elt, MD 20770 Title Procedure for Determining Fenestration Products <u>U-Factors</u> Procedure for Determining Fenestration Product
<u>Standard reference</u> 100—2017:	Greenb	elt, MD 20770 Title Procedure for Determining Fenestration Products <u>U-Factors</u> Procedure for Determining Fenestration Product Solar Heat Gain Coefficients and Visible

<u>NSF</u>	<u>789 N. I</u> P.O. Bo	ernational Dixboro Road x 130140 por, MI 48105
Standard referen	ced	Title
<u>14—2015:</u>		Plastics Piping System Components and Related Materials
<u>358-1—2014:</u>		Polyethylene Pipe and Fittings for Water-based Ground Source "Geothermal" Heat Pump Systems
<u>358-2—2012:</u>		<u>Polypropylene Pipe and Fittings for Water-based</u> <u>Ground Source "Geothermal" Heat Pump Systems</u>
PCA	5420 Ol	<u>l Cement Association</u> <u>d Orchard Road</u> IL 60077
Standard referen	ced	Title

<u>100—12:</u>		Prescriptive Design of Exterior Concrete Walls for One- and Two-family Dwellings (Pub. No. EB241)
<u>SBCA</u>	6300 En	al Building Components Association terprise Lane a, WI 53719
Standard reference	ed	Title
<u>BCSI—2013</u> (Updated March 20	<u>)15):</u>	Building Component Safety Information Guide toGoodPracticeforHandling,Installing,Restraining & Bracing of Metal Plate Connected
<u>CFS-BCSI—2008:</u>		<u>Wood Trusses</u> <u>Cold-formed Steel Building Component Safety</u> <u>Information (CFSBCSI) Guide to Good Practice</u> <u>for Handling, Installing & Bracing of Cold-formed</u>
<u>FS100—12:</u>		<u>Steel Trusses</u> <u>Standard Requirements for Wind Pressure</u> <u>Resistance of Foam Plastic Insulating Sheathing</u> <u>Used in Exterior Wall Covering Assemblies</u>
SMACNA	4021 Laf	tal & Air Conditioning Contractors National Assoc. Inc. Fayette Center Road 7, VA 22021
Standard reference	ed	Title
<u>SMACNA—10:</u> <u>SMACNA/ANSI</u> —	- <u>2016:</u>	Fibrous Glass Duct Construction Standards (2003) HVAC Duct Construction Standards— Metal and Flexible 4th Edition (ANSI) 2016
TMS	105 Sou	sonry Society ath Sunset Street, Suite Q ont, CO 80501
Standard reference	ed T	<u>`itle</u>
<u>402—2016:</u> <u>403—2017:</u> <u>404—2016:</u> <u>602—2016:</u>	<u>D</u> S	Building Code Requirements for Masonry Structures Direct Design Handbook for Masonry Structures tandard for the Design of Architectural Cast Stone pecification for Masonry Structures

TPI	Truss Plate Institute		
	218 N. Lee Street, Suite 312		
	Alexandria, VA 22314		
Standard refere	enced <u>Title</u>		
<u>TPI 1—2014:</u>	National Design Standard for Metal-plate connected Wood Truss Construction		
UL	<u>UL LLC</u>		
	333 Pfingsten Road		
	Northbrook, IL 60062		
Standard refere	enced <u>Title</u>		
17—2008:	Vent or Chimney Connector Dampers for Oil-fire		
17 2000.	Appliances—with revisions through September 2013		
55A—04:	Materials for Built-up Roof Coverings		
<u>58—96:</u>	Steel Underground Tanks for Flammable and		
	Combustible Liquids—with Revisions through July 1998		
80—2007:	Steel Tanks for Oil-burner Fuel—		
	with revisions through January 2014		
103—2010:	Factory-built Chimneys for Residential Type and		
	Building Heating Appliances—		
	with revisions through July 2012		
<u>127—2011:</u>	Factory-built Fireplaces—		
	with revisions through May 2015		
<u>174—04:</u>	Household Electric Storage Tank Water Heaters-		
	with revisions through April 2015		
<u>180—2012:</u>	Liquid-level Indicating Gauges for Oil Burner Fuel		
	and Other Combustible Liquids		
<u>181—05:</u>	Factory-made Air Ducts and Air Connectors-with		
1011 0010	revisions through May 2003		
<u>181A—2013:</u>	<u>Closure Systems for Use with Rigid Air Ducts and</u>		
	<u>Air Connectors</u>		
101D 2012	with revisions through December 1998		
<u>181B—2013:</u>	Closure Systems for Use with Flexible Air Ducts and		
	<u>Air Connectors</u>		
217 06.	with revisions through August 2003 Single and Multiple station Smoke Alarms		
<u>217—06:</u>	Single- and Multiple-station Smoke Alarms— with revisions through October 2015		
263—2011:	Standards for Fire Test of Building Construction and		
<u>203—2011.</u>	Materials—with revisions through June 2015		
268—2009:	Smoke Detectors for Fire Alarm Systems		
<u>200—2007.</u>	Shiuke Delecturs for File Alarni Systems		

<u>UL</u>	UL LLC 222 Dfingston Boad
	<u>333 Pfingsten Road</u> Northbrook, IL 60062
Standard reference	
<u>325—02:</u>	Door, Drapery, Gate, Louver and Window Operations
	and Systems—with revisions through May 2015
<u>343—2008:</u>	Pumps for Oil-burning Appliances—
250 04	with revisions through June 2013
<u>378—06:</u>	Draft Equipment
441 10	with revisions through June 12, 2014
<u>441—10:</u>	Gas Vents—with revisions through June 12, 2014
<u>507—99:</u>	Standard for Electric Fans
<u>508—99:</u>	Industrial Control Equipment—
515 11.	with revisions through October 2013 Electrical Registering Heat Tracing for Commercial
<u>515—11:</u>	<u>Electrical Resistance Heat Tracing for Commercial</u> and Industrial Applications
	Including Revisions through July 2015
<u>536—97:</u>	Flexible Metallic Hose—
<u>550 71.</u>	with revisions through December 2014
<u>641—2010:</u>	Type L, Low-temperature Venting Systems—
011 2010.	with revisions through June 2013
651—2011:	Schedule 40 and Schedule 80 Rigid PVC Conduit and
<u> </u>	Fittings—with revisions through May 2014
705—04:	Standard for Power Ventilators—
	with revisions through December 2013
723—08:	Standard for Test for Surface Burning Characteristics
	of Building Materials—
	with revisions through August 2013
<u>726—95:</u>	Oil-fired Boiler Assemblies—
	with revisions through October 2013
727—06:	Oil-fired Central Furnaces—
	with revisions through October 2013
<u>729—03:</u>	Oil-fired Floor Furnaces—
	with revisions through October 2013
<u>730—03:</u>	Oil-fired Wall Furnaces—
722 05	with revisions through October 2013
<u>732—95:</u>	Oil-fired Storage Tank Water Heaters—
727 2011	with revisions through October 2013
<u>737—2011:</u>	<u>Fireplaces Stoves</u>
	with revisions through August 2015

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	333 Pfingsten Road
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Standard reference	ed <u>Title</u>
<u>790—04:</u>	Standard Test Methods for Fire Tests of Roo
	Coverings—with revisions through July 2014
<u>795—2011:</u>	Commercial-industrial Gas Heating Equipment-
	with revisions through November 2013
<u>834—04:</u>	Heating, Water Supply and Power Boilers-
	Electric—with revisions through December 2013
<u>842—07:</u>	Valves for Flammable Fluids—
	with revisions through May 2015
<u>858—05:</u>	Household Electric Ranges—
	with revisions through June 2015
<u>875—09:</u>	Electric Dry-bath Heaters—
	with revisions through December 2013
<u>896—93:</u>	Oil-burning Stoves—
	with revisions through November 2013
<u>923—2013:</u>	Microwave Cooking Appliances—
	with revisions through June 2015
<u>959—2010:</u>	Medium Heat Appliance Factory-built Chimneys-
	with revisions through June 2014
<u>1026—2012:</u>	Electric Household Cooking and Food Servin
	Appliances—with revisions through August 2015
<u>1040—96:</u>	Fire Test of Insulated Wall Construction—
	with revisions through October 2012
<u>1042—2009:</u>	Electric Baseboard Heating Equipment—
	with revisions through September 2014
<u>1256—02:</u>	Fire Test of Roof Deck Construction—
	with revisions through July 2013
<u>1261—01:</u>	Electric Water Heaters for Pools and Tubs—
	with revisions through July 2012
<u>1479—03:</u>	Fire Tests of Through-Penetration Firestops—
	with revisions through June 2015
<u>1482—2011:</u>	Solid-Fuel-type Room Heaters—
	with revisions through August 2015
<u>1563—2009:</u>	Standard for Electric Spas, Hot Tubs and Associate
	Equipment—with revisions through March 2015
<u>1618—09:</u>	Wall Protectors, Floor Protectors, and Heart
	Extensions—with revisions through October 2015

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<u>333 Pfingsten Road</u> Northbrook, IL 60062				
Standard referenced	<u>Title</u>			
<u>1693—2010:</u>	Electric Radiant Heating Panels and Heating Panels Sets—with revisions through October 2011			
<u>1703—02:</u>	<u>Flat-plate Photovoltaic Modules and Panels</u> with revisions through October 2015			
<u>1715—97:</u>	Fire Test of Interior Finish Material— with revisions through January 2013			
<u>1738—2010:</u>	Venting Systems for Gas-burning Appliances Categories II, III and IV—			
<u>1741—2010:</u>	with revisions through November 2014 Inverters, Converters, Controllers and Interconnection System Equipment with Distributed Energy Resources—			
<u>1777—07:</u>	with revisions through January 2015 <u>Chimney Liners</u> with revisions through October 2015			
<u>1897—12:</u>	<u>Uplift Tests for Roof Covering Systems</u> with revisions through September 2015			
<u>1995—2011:</u>	<u>Heating and Cooling Equipment</u> with revisions through July 2015			
<u>1996—2009:</u>	<u>Electric Duct Heaters</u> with revisions through June 2014			
<u>2034—08:</u>	<u>Standard for Single- and Multiple-station Carbo</u> Monoxide Alarms—with revisions through March 2015			
2075—2013:	Standard for Gas and Vapor Detectors and Sensors			
2158A—2010:	Outline of Investigation for Clothes Dryer Transition D			
<u>2200-15</u>	Stationary engine generator assemblies			
<u>2523—09:</u>	<u>Standard for Solid Fuel-fired Hydronic Heatin</u> <u>Appliances, Water Heaters and Boilers</u> <u>with revisions through February 2013</u>			
<u>2703—14:</u>	Mounting Systems, Mounting Device Clamping/Retention Devices and Ground Lugs for			
<u>9540—14:</u>	<u>Use with Flat-Plate Photovoltaic Modules and Pane</u> <u>Outline of Investigation for Energy Storage System</u> and Equipment			
<u>UL/CSA/ANCE</u> 60335-2-40—2012:	<u>Standard for Household and Similar Electric</u> <u>Appliances, Part 2:</u> <u>Particular Requirements for Motor-compressors</u>			

ULC ULC 13775 Commerce Parkway Richmond, BC V6V 2V4 Standard referenced Title CAN/ULC S 102.2—2010: Standard Methods for Test for Surface Burning Characteristics of Building Materials and Assemblies US-FTC United States-Federal Trade Commission 600 Pennsylvania Avenue NW Washington, DC 20580 Standard referenced Title CFR Title 16(2015): R-value Rule WDMA Window and Door Manufacturers Association 2025 M Street NW, Suite 800 Washington, DC 2036-3309 Standard referenced Title AAMA/WDMA/CSA 101/ North AMA/WDMA/CSA 101/ North Specifications for Windows, Doors and Skylights I.S. 11—13: Industry Standard Analytical Method for Design Pressure (DP) Ratings of Fenestration Products WMA World Millwork Alliance (formerly Association of Millwork Distributors Standards AMD) 10047 Robert Trent Parkway New Port Richey, FL 34655-4649 Standard referenced Title ANSI WMA 100—2016: Standard Method of Determining Structural Performance Ratings of Side Hinged Exterior Door Systems and Procedures for Component Substitution						
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Replaces:	4101:8-44-01
Effective:	7/1/2019
Five Year Review (FYR) Dates:	07/01/2024

CERTIFIED ELECTRONICALLY

Certification

12/14/2018

Date

Promulgated Under: Statutory Authority: Rule Amplifies: Prior Effective Dates:

119.03 3781.10(A)(1) 3781.01, 4740.14, 3791.04, 3781.11, 3781.10, 3781.06 05/27/2006, 01/01/2008, 03/31/2008 (Emer.), 06/24/2008, 01/01/2009, 01/01/2013, 07/01/2014, 01/01/2016, 01/01/2018