

**STAFF ANALYSES OF NEW STANDARDS PROPOSED IN GROUP B
2016 CODE CHANGE CYCLE
LISTED BY STANDARDS ORGANIZATION**

April 2, 2016

The following are comments by ICC staff regarding certain aspects of standards proposed to be referenced in the ICC Codes by code change proposals submitted for the Group B portion of the 2016 cycle. The comments relate to portions of the criteria for standards contained in Section 3.6 of CP#28 (see last page of this document.)

CODE CHANGE NUMBER	CODE SECTION(S)	STANDARD	STAFF COMMENTS
AAMA STANDARD			
S151-16	IBC-S: 1709.5	AAMA 506-11 <i>Voluntary Specifications for Hurricane Impact and Cycle Testing of Fenestration Products</i>	Currently referenced in the IRC.
ACCA STANDARDS			
CE272-16	IECC-C: C603.2	ACCA Manual J-2011 <i>Residential Load Calculation – Eighth Edition</i>	Currently referenced in the IECC-R.
CE272-16	IECC-C: C603.2	ACCA Manual S-13 <i>Residential Equipment Selection</i>	Currently referenced in the IECC-R.
ACI STANDARD			
RB31-16	IRC: Table R302.1; R302.2. R302.3	ACI/TMS 216.1-14 <i>Code Requirements for Determining Fire Resistance of Concrete and Masonry Construction Assemblies</i>	Currently referenced in the IBC.
EB10-16	IEBC: 301.1.5	ACI 562-16 <i>Code Requirements for Assessment, Repair and Rehabilitation of Existing Concrete Structures</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Does not indicate promulgation by a consensus process.
AHRI STANDARD			
RE113-16	IECC-R: R403.5.1 (New), [IRC N1103.5.1 (New)]	AHRI 470-06 <i>Performance Rating of Desuperheater/Water Heaters</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Consensus process stated in preface.
AISI STANDARDS			
S252-16 S129-16	IBC-S: 2211.1.3.1; 1705.2.2.3.1	AISI S202-15 <i>Code of Standard Practice for Cold-Formed Steel Structural Framing</i>	Consensus process stated in preface. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.

FS7-16 S252-16 S129-16 RB195-16 RB248-16 RB265-16 RB321-16	IBC-FS: T2603.12.1 IBC-S: 2211.1.3.3, 1705.2.2.2 IRC-B: R505.1.1, R603.6, R702.3.3, 804.3.6	AISI S240-15 <i>North American Standard for Cold-Formed Steel Structuring Framing</i>	Consensus process stated in preface. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
S252-16	IBC-S: 2211.1.3.3	AISI S400-15 <i>North American Standard for Seismic Design of Cold-Formed Steel Structural Systems</i>	Consensus process stated in preface. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
S254-16	IBC-S: 2211.6	AISI S914-15 <i>Test Standard for Joist Connectors Attached to Cold-Formed Steel Structural Framing</i>	Consensus process stated in preface. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
APA STANDARDS			
RB189-16	IRC: R502.1.3; R602.1.3, R802.1.2	ANSI 117-2015 <i>Standard Specifications for Structural Glued Laminated Timber of Softwood Species</i>	Currently referenced in the IBC.
RB217-16	IRC: 602.1.11, R610.4	ANSI/APA PRS 610.1-2013 <i>Standard for Performance-Rated Structural Insulated Panels in Wall Applications</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
API STANDARDS			
F384-16	IFC: 5706.3.5	API 12R1-2008 <i>Recommended Practice for Setting, Maintenance, Inspection, Operation and Repair of Tanks in Production Service</i>	The standard contains language that could affect enforceability. Note that this document is a recommended practice and thus contains permissive language throughout the document. Does not appear to require proprietary materials or agencies. Standard preface announces an API standardization process but does not refer specifically to a consensus process 3.6.2.11.
F384-16	IFC: 5706.3.5	API 12B-2014 <i>Specification for Bolted Tanks for Storage of Production Liquids</i>	The standard contains language that could affect enforceability. (Examples Sections 3.7, 9.3, 9.4) Does not appear to require proprietary materials or agencies.

			Standard preface announces an API standardization process but does not refer specifically to a consensus process.
F384-16	IFC: 5706.3.5	API 12D-2008 <i>Specification for field welded tanks for production liquids</i>	Currently referenced in the IPC.
F384-16	IFC: 5706.3.5	API 12F-2008 <i>Specification for shop welded tanks for storage of production liquids</i>	Currently referenced in the IPC.
F377-16 F387-16	IFC: 5703.1.3, 5706.1	API 500-2012 <i>Recommended Practice for Classification of Locations for Electrical Installations at Petroleum Facilities Classified as Class I, Division 1 and Division 2</i>	The standard contains language that could affect enforceability. Note that this document is a recommended practice and thus contains permissive language throughout the document. Does not appear to require proprietary materials or agencies. Standard preface announces an API standardization process but does not refer specifically to a consensus process 3.6.2.11.
F377-16 F387-16	IFC: 5703.1.3 IFC: 5706.7	API 505-2013 <i>Recommended Practice for Classification of Locations for Electrical Installations at Petroleum Facilities Classified as Class I, Zone 0, Zone 1, and Zone 2</i>	The standard contains language that could affect enforceability. Note that this document is a recommended practice and thus contains permissive language throughout the document. Does not appear to require proprietary materials or agencies. Standard preface announces an API standardization process but does not refer specifically to a consensus process.
F387-16	IFC: 5706.7	API 620-2013 <i>Design and Construction of Large, Welded, Low-pressure Storage Tanks</i>	The standard contains language that could affect enforceability. (Examples Sections 4.3.4.2, 5.10.2.4, 5.10.6.3, 5.12.3.2, 5.13.4.1, 5.16.7.3, 5.22.1.2, 6.3.2, 6.5.6.1, 6.7.4, 6.9.2, 7.7, 7.11, 7.18.2.3, 7.18.3.3, 7.18.5.1, 7.18.7, 7.18.10, 7.19.3.1, 7.20.4, 9.5, 9.6.1.2) Does not appear to require proprietary materials or agencies.

			Standard preface announces an API standardization process but does not refer specifically to a consensus process.
F387-16	IFC: 5706.7	API 650-2013 (Addendum 2014) <i>Welded Tanks for Oil Storage</i>	<p>The standard contains language that could affect enforceability. (Examples: Sections 4.2.10.2, 4.6.2, 4.7, 4.9.1.4, 5.3.3, 5.7.2.3, 5.7.3.4, 5.8.3.4, 5.8.5.5, Table 5.17, 5.9.7.3.1, 5.10.2.8, 7.3.3, 7.5.5.1)</p> <p>Does not appear to require proprietary materials or agencies.</p> <p>Standard preface announces an API standardization process but does not refer specifically to a consensus process.</p>
F387-16	IFC: 5706.7	API 753-2007 <i>Management of Hazards Associated with Location of Process Plant Portable</i>	<p>The standard contains language that could affect enforceability. Note that this document is a recommended practice and thus contains permissive language throughout the document.</p> <p>Does not appear to require proprietary materials or agencies.</p> <p>Standard preface announces an API standardization process but does not refer specifically to a consensus process.</p>
F268-16 F385-16	IFC: 2306.8, 5706.4.5	API 1626-2010 (ADDENDUM 2012) <i>Storing and Handling Ethanol and Gasoline Ethanol Blends at Distribution Terminals and Filling Stations</i>	<p>The standard contains language that could affect enforceability. Note that this document is a recommended practice and thus contains permissive language throughout the document.</p> <p>Does not appear to require proprietary materials or agencies.</p> <p>Standard preface announces an API standardization process but does not refer specifically to a consensus process.</p>

F263-16	IFC: 2305.2	API 1646-2006 <i>Safe Work Practices for Contractors Working at Retail Petroleum Convenience Facilities</i>	<p>The standard contains language that could affect enforceability. Note that this document is a recommended practice and thus contains permissive language throughout the document</p> <p>Does not appear to require proprietary materials or agencies.</p> <p>Standard preface announces an API standardization process but does not refer specifically to a consensus process 3.6.2.11.</p>
F379-16	IFC: 5704.2.7.6	API 2009-2007 Edition, February 1, 2002 <i>Safe Welding, Cutting and Hot Work Practices in the Petroleum and Petrochemical Industries</i>	Currently referenced in the IFC.
F387-16 F388-16	IFC: 5706.7, 5706.7.2	API 2217A-2009 <i>Guideline for safe work in inert confined spaces in the petroleum and petrochemical industry</i>	<p>The standard contains language that could affect enforceability. Note that this document is a recommended practice and thus contains permissive language throughout the document.</p> <p>Does not appear to require proprietary materials or agencies.</p> <p>Standard preface announces an API standardization process but does not refer specifically to a consensus process.</p>
F387-16	IFC: 5706.7	API 2218-2013 <i>Fireproofing Practices in Petroleum and Petrochemical Processing Plants</i>	<p>The standard contains language that could affect enforceability. Note that this document is a recommended practice and thus contains permissive language throughout the document.</p> <p>Does not appear to require proprietary materials or agencies.</p> <p>Standard preface announces an API standardization process but does not refer specifically to a consensus process.</p>

F387-16	IFC: 5706.7	API 2219-2005 <i>Safe Operation of Vacuum Trucks in Petroleum Services-4th edition</i>	The standard contains language that could affect enforceability. Note that this document is a recommended practice and thus contains permissive language throughout the document. Does not appear to require proprietary materials or agencies. Standard preface announces an API standardization process but does not refer specifically to a consensus process.
APSP STANDARD			
CE272-16	IECC-C: C604.2	APSP 15a-2013 <i>American National Standard for Residential Pools and Spa Energy Efficiency</i>	Currently referenced in the IPSPC and the IECC-R.
ASCE STANDARD			
F301-16	IFC: 3103.6, 3103.9, 3103.9.1	ASCE 7-10 <i>Minimum Design Loads for Buildings and Other Structures with Supplement No. 1</i>	Currently referenced in the IBC, IRC and IEBC.
ASHRAE STANDARDS			
F100-16 F101-16	IFC: 608.6.1 IMC: [F] 502.4.1	IEEE/1635/ASHRAE 21(2012) <i>Guide for the Ventilation and Thermal Management of Batteries for Stationary Applications</i>	The standard contains language that could affect enforceability. Note that this document is a recommended practice and thus contains permissive language throughout the document. Does not appear to require proprietary materials or agencies. Standard preface announces an IEEE standardization process but does not refer specifically to a consensus process 3.6.2.11.
CE255-16 CE256-16 CE257-16	IECC-C: Table C407.5.1	ASHRAE Standard 55-2013 <i>Thermal Environmental Conditions for Human Occupancy</i>	Indicates that standard was developed by a consensus process. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
RB373-16	IRC-B: AV102.3	ASHRAE 90.1-2013 <i>Energy Standard for Buildings Except Low-Rise Residential Buildings</i>	Currently referenced in the IECC-C.

CE40-16	IECC-C: C401.2	ASHRAE 90.4 <i>Energy Standard for Data Centers and Telecommunication Buildings</i>	Indicates that standard was developed by a consensus process. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
CE21-16 Part I CE21-16 Part II	IECC-C: C301.1 IECC-R: R301.1 (New) [IRC N1107.1 (New)]	ASHRAE Standard 169-2013 <i>Climatic Data for Building Design Standards</i>	Indicates that standard was developed by a consensus process. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
CE272-16	IECC-C: C603.5.2.1	ASHRAE 193-2010 <i>Method of Test for Determining Air Tightness of HVAC Equipment</i>	Currently referenced in the IRC and the IECC-R.
ASTM STANDARDS			
RB199-16	IRC: Table R507.2.3	ASTM A123/A123M-15 <i>Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
RB199-16	IRC: Table R507.2.3	ASTM A563-15 <i>Standard Specification for Carbon and Alloy Steel Nuts</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
EB58-16	IEBC: A106.2.2.2	ASTM C34-12 <i>Specification for Structural Clay Load-Bearing Wall Tile</i>	Currently referenced in IRC.
RB250-16	IRC: R607.2.1	ASTM C67-13 <i>Test Methods of Sampling and Testing Brick and Structural Clay Tile</i>	Currently referenced in IBC.
EB58-16	IEBC: A106.2.2.2	ASTM C140-13 <i>Test Method Sampling and Testing Concrete Masonry Units and Related Units</i>	Currently referenced in both the IBC and IRC.
CE66-16	IECC-C: C402.1.3	ASTM C518-15 <i>Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus</i>	Indicates that standard was developed by a consensus process. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
RB352-16	IRC: Table R906.2	ASTM C726-12 <i>Standard Specification for Mineral Wool Roof Insulation Board</i>	Currently referenced in IBC.
RB260-16	IRC: R702.2.1	ASTM C841-03 <i>Standard Specification for Installation of Interior Lathing and Furring</i>	Currently referenced in IBC.
RB260-16	IRC: R702.2.1	ASTM C842-05 <i>Standard Specification for Application of Interior Gypsum Plaster</i>	Currently referenced in IBC.

CE28-16, Part I	IECC-C: C202, C303.1.1.2	ASTM C1313/C1313M-13 <i>Standard Specification for Sheet Radiant Barriers for Building Construction Applications</i>	Currently referenced in IBC.
CE28-16 Part II	IECC-R: R303.1.5 (New) [IRC N1101.10.5 (New)]		
CE10-16, Part I	IECC-C: C303.2.2	ASTM C1321-15 <i>Standard Practice for Installation and Use of Interior Radiation Control Coating Systems (IRRCS) in Building Construction</i>	Indicates that standard was developed by a consensus process. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
CE10-16, Part II	IECC-R: R303.2.2 (New) [IRC N1101.11.2 (New)]		
EB59-16 EB58-16	IEBC: A106.3.3.1 IEBC: A106.2.3.1	ASTM C1531-09 <i>Standard Test Methods for In Situ Measurement Of Masonry Mortar Joint Shear Strength Index</i>	Consensus process stated. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
S9-16	IBC-S: 1504.2.1.1	ASTM C1568-08(2013) <i>Standard Test Method for Wind Resistance of Concrete and Clay Roof Tiles (Mechanical Uplift Resistance Method)</i>	Consensus process stated. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies
S245-16, Part I S245-16, Part II	IBC-S: 2103.1; IRC: R606.2.6	ASTM C1670-15 <i>Standard Specification for Adhered Manufactured Stone Masonry Veneer Units</i>	Consensus process stated. The standard contains language that could affect enforceability. See Sections 7.1.1 & 8.1.1. Does not appear to require proprietary materials or agencies.
S298-16 RB264-16	IBC-S: Table 2506.2 IRC: R702.3.1	ASTM C1766-13 <i>Standard Specification for Factory-Laminated Gypsum Panel Products</i>	Consensus process stated. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
S243-16, Part II	IRC: R606.2.3 (NEW)	ASTM C1691-11 <i>Standard Specification for Unreinforced Autoclaved Aerated Concrete (AAC) Masonry Units</i>	Consensus process stated. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
S243-16, Part II	IRC: R606.2.3 (NEW)	ASTM C1693-11 <i>Standard Specification for Autoclaved Aerated Concrete (AAC)</i>	Consensus process stated. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
F38-16	IFC: 503.7.3	ASTM D698-12e2 <i>Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12 400 ft-lbf/ft³ (600 kN-m/m³))</i>	The standard contains language that could affect enforceability. (Examples Sections 8.1, 10.2.1, 10.4.3, 11.3.1, 11.3.1.1, 13.1.1, 13.1.2) Does not appear to require proprietary materials or agencies.

			Consensus standard stated.
S219-16	IBC-S: 1810.3.3.2	ASTM D3966/D3966M-07(2013)e1 <i>Standard Test Methods for Deep Foundations Under Lateral Load</i>	Consensus process stated. The standard contains language that could affect enforceability. See Sections 4.4, 6.1.4, 6.2.5 & 8.2.1.1. Does not appear to require proprietary materials or agencies.
S160-16	IBC-S: 1803.5.3	ASTM D4546-14 <i>Standard Test Methods for One-Dimensional Swell or Collapse of Soils¹</i>	Consensus process stated. The standard contains language that could affect enforceability. See Sections 6, 8, 9 & 11. Does not appear to require proprietary materials or agencies.
S160-16	IBC-S: 1803.5.1	ASTM D5878-08 <i>Standard Guides for Using Rock-Mass Classification Systems for Engineering Purposes¹</i>	The standard contains language that could affect enforceability. See Sections 4.3 & 6.1. Does not appear to require proprietary materials or agencies.
S236-16	IBC-S: 1810.4.13	ASTM D5882-07(2013) <i>Standard Test Method for Low Strain Impact Integrity Testing of Deep Foundations</i>	Consensus process stated. The standard contains language that could affect enforceability. See Sections 5 & 6. Does not appear to require proprietary materials or agencies.
S300-16	IBC-S: Table 2506.2	ASTM D6464-03a(2009) <i>Standard Specification for Expandable Foam Adhesives for Fastening Gypsum Wallboard to Wood Framing</i>	Consensus process stated. The standard contains language that could affect enforceability. See Sections 10.1.2.2, 10.2.1.1, 10.2.1.2 & 10.5.1. Does not appear to require proprietary materials or agencies.
S236-16	IBC-S: 1810.4.13	ASTM D6760-14 <i>Standard Test Method For Integrity Testing of Concrete Deep Foundations by Ultrasonic Crosshole Testing</i>	Consensus process stated. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
F410-16	IFC: O103.2.1	ASTM D6951/D6951M-09(2015) <i>Standard Test Method for Use of the Dynamic Cone Penetrometer in Shallow Pavement Applications</i>	The standard contains language that could affect enforceability. (Examples Sections 8.1) Does not appear to require proprietary materials or agencies. Consensus standard stated.
S214-16 S211-16	IBC-S: 1810.3.3.1.5; 1810.3.3.1.2	ASTM D7383-10 <i>Standard Test Methods for Axial Compressive Force Pulse (Rapid) Testing of Deep Foundations</i>	Consensus process stated. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
S44-16	IBC-S: 1507.14.2	ASTM D7425/D7425M-11 <i>Standard Specification for Spray Polyurethane Foam Used for Roofing Applications</i>	Currently referenced in the IRC.

CE90-16	IECC-C: C402.3.1	ASTM D7897-15 <i>Standard Practice for Laboratory Soiling and Weathering of Roofing Materials to Simulate Effects of Natural Exposure on Solar Reflectance and Thermal Emittance</i>	Indicates that standard was developed by a consensus process. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
S236-16	IBC-S: 1810.4.13	ASTM D7949-14 <i>Standard Test Methods for Thermal Integrity Profiling of Concrete Deep Foundations</i>	Consensus process stated. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
WUIC4-16 WUIC7-16	IWUIC: 504.7, 505.7	ASTM E84-2013A <i>Test Method for Surface Burning Characteristics of Building Materials</i>	Currently referenced in the IBC, IRC, IFC, IMC and IEBC.
F125-16	IFC: 804.3.1, 804.3.2	ASTM E648-15e1 <i>Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
RB197-16 RB361-16 RB362-16	IRC: R506.2.3 IRC: R327.4.4.2 IRC: AF103.4.2	ASTM E1745-11 <i>Standard Specification for Plastic Water Vapor Retarder Used in Contact with Soil or Granular Fill Under Concrete Slabs</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
CE230-16 CE41-16 CE106-16 CE272-16	IECC-C: C406.9, C402.5, C606.4	ASTM E1827-11 <i>Standard Test Methods for Determining Airtightness of Building Using an Orifice Blower Door</i>	Currently referenced in the IECC-R.
RE3-16	IECC-R: R202	ASTM E2178-13 <i>Standard Test Method for Air Permeance of Building Materials</i>	Currently referenced in the IECC-C, the IBC and the IRC.
S297-16	IBC-S: 2407.1.2	ASTM E2353-14 <i>Standard Test Methods for Performance of Glazing in Permanent Railing Systems, Guards and Balustrades</i>	Consensus process stated. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
RB302-16 RB285-16 RB301-16	IRC: R703.7.3, R703.2	ASTM E2556-10 <i>Standard Specification for Vapor Permeable Flexible Sheet Water-Resistive Barriers intended for Mechanical Attachment</i>	Currently referenced in the IBC.
F118-16 F124-16	IFC: 803.13	ASTM E2579-13 <i>Standard Practice for Specimen Preparation and Mounting of Wood Products to Assess Surface Burning Characteristics</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
WUIC6-16 WUIC3-16 WUIC9-16	IWUIC: 505.5, 504.5; Table I101.1	ASTM E2707-15 <i>Standard Test Method for Determining Fire Penetration of Exterior Wall Assemblies Using a Direct Flame Impingement Exposure</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated

			according to a consensus procedure.
WUIC4-16 WUIC7-16 WUIC9-16	IWUIC: 504.7, 505.7, Table I101.1	ASTM E2726/E2726M-12A <i>Standard Test Method for Evaluating the Fire-Test-Response of Deck Structures to Burning brands</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
S260-16 RB311-16	IBC-S: 2303.2 IRC-B: R802.1.5	ASTM E2768(2011) <i>Standard Test Method for Extended Duration Surface Burning Characteristics of Building Materials (30 min Tunnel Test).</i>	Currently referenced in the IWUIC.
RB279-16 S304-16 RB300-16 RB301-16 RB278-16	IRC: R703.1.1, R703.7.3; IBC-S: 2510.6; IBC-FS: 1403.2; 1405.3.4	ASTM E2925-14 <i>Standard Specification for Manufactured Polymeric Draining and Ventilation Materials used to Provide a Rainscreen Function</i>	Consensus process stated. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
RB199-16	IRC: Table R507.2.3	ASTM F844-07a(2013) <i>Standard Specification for Washers, Steel, Plain (Flat), Unhardened for General Use</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
RB170-16	IRC: R327.2	ASTM F2200-14 <i>Standard Specification for Automated Vehicular Gate Construction</i>	Currently referenced in the IFC.
AWS STANDARD			
S224-16	IBC: 1810.3.5.3.2	AWS D1.1/D1.1M <i>2015 Structural Welding Code-Steel</i>	Consensus process stated in preface. The standard contains language that could affect enforceability. See Sections 4.8.4, 5.2.2.1, 5.8.3 & 5.2.3.1. Does not appear to require proprietary materials or agencies.
BOMA STANDARDS			
RE56-16	IECC-R: R402.4.1.2.1(New) [IRC N1102.4.1.2.1 (New)	ANSI/BOMA Z65.1-1996 <i>Office Buildings: Standards Methods of Measurement</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Consensus process stated in preface.
RE56-16	IECC-R: R402.4.1.2.1(New) [IRC N1102.4.1.2.1 (New)	ANSI/BOMA Z765.1-1996 <i>Square Footage Method for Calculating</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Consensus process stated in preface.
CA WUI STANDARDS			
WUIC9-16	IWUIC: Table I101.1	SFM 12-7A-1 <i>Exterior Wall Siding and Sheathing-2001</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Does not state that it is promulgated according to a consensus procedure.

WUIC9-16	IWUIC: Table I101.1	SFM 12-7A-4 <i>Decking – 2001</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Does not state that it is promulgated according to a consensus procedure.
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CSA AND CSA AMERICA STANDARDS

F111-16	IFC: 612.13.1	CSA FC 1-2012 <i>Stationery Fuel Cell Power Systems</i>	Currently referenced in the IFGC, IMC and the IRC.
RE117-16	IECC-R: R403.6.1 (New) [IRC N1103.6.1 (New)]	CAN/CSA C439-09(R2014) <i>Standard laboratory methods of test for rating the performance of heat/energy-recovery ventilators</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Consensus process stated in preface.
FG1-16	IFGC: 413.4.1	ANSI/CSA NGV 5.1-2015 <i>Residential Fueling Appliances</i>	Indicates that standard was developed by a consensus process. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.

CTI STANDARDS

CE151-16	IECC-C:	CTI STD 201 OM (15) <i>Operations Manual for Thermal Performance Certification of Evaporative Heat Rejection Equipment</i>	Indicates that standard was developed by a consensus process. Appears to be written in enforceable language. Appears to require a proprietary testing agent (Example Section 4.8)
CE151-16	IECC-C: C403.2.3	CTI STD 201 RS (15) <i>Performance Rating of Evaporative Heat Rejection Equipment</i>	Indicates that standard was developed by a consensus process. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.

DOE STANDARDS

RE190-16	IECC-R: R303.1.5 (New) [IRC N1101.10.5 (New)]	DOE 10 CFR, Part 430-1998 <i>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</i>	Currently referenced in the IECC-C.
CE125-16	IECC-C: C403.2.15.1	DOE CFR Part 431.302 and 431 Subpart R <i>Walk-in Coolers and Walk-in Freezers</i>	Does not indicate that it was developed by a consensus process. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.

DOL STANDARDS

F25-16	IFC: 319.2	DOL Title 29-Part 1910 <i>Code of Federal Regulations, Part 1910</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Standard preface does not announce a consensus process used for this standard.
F25-16	IFC: 319.2	DOL Title 29-Part 1926 <i>Code of Federal Regulations, Part 1926.650 – 1926.652, Subpart P.</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Standard preface does not announce a consensus process used for this standard.
EPA STANDARDS			
ADM78-16 ADM85-16	IEBC: 106.2.6, 109.7 IBC: 107.2.7 IRC: R106.1.1, R109.5	US EPA 40 CFR 745 <i>Lead-Based Poisoning Prevention in Certain Residential Structures, January 7, 2016</i>	The standard contains language that could affect enforceability. See Sections 745.81(a)(1) and (2). Standard preface does not announce a consensus process used for this standard.
ICC STANDARDS			
CE272-16 Part I	IECC-C: Table C602.5.2.1	ICC-400-17 <i>Standard for the Design and Construction of Log Structures</i>	Currently referenced in the IECC-R and the IRC.
RE181-16	IECC-R: R407.1(New) [IRC N1107.1 (New)]	ICC 700-16 <i>National Green Building Standard (Draft Version)</i>	DRAFT REVIEWED. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Consensus process stated in preface.
CE169-16, Part I CE169-16, Part II	IECC-C: C403.4.6, C403.4.6.3 IECC-R: R403.13.1 (New) [IRC N1101.13.1 (New)], R403.13.4 (New) [IRC N1101.13.4 (New)]	ICC 900/SRCC 300-2015 <i>Solar Thermal System Standard</i>	Currently referenced in the IRC, IMC, IPC, and ISPSC.
S120-16	IBC-S: 1613.3.3	UBC-97 <i>1997 Uniform Building Code</i>	Not promulgated by consensus process similar to ANSI or ASTM. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. 1997 UBC is no longer in print.
IEEE STANDARDS			
F100-16 F101-16	IFC: 608.6.1	IEEE/1635/ASHRAE 21(2012) <i>Guide for the Ventilation and Thermal Management of Batteries for Stationary Applications</i>	The standard contains language that could affect enforceability. Note that this document is a recommended practice and

			<p>thus contains permissive language throughout the document.</p> <p>Does not appear to require proprietary materials or agencies. Standard preface announces an IEEE standardization process but does not refer specifically to a consensus process 3.6.2.11.</p>
IES STANDARD			
CE208-16	IECC-C: C405.4.2	IES RP-6 (2015) <i>Sports and Recreational Area Lighting</i>	<p>Indicates that standard was developed by a consensus process. The standard contains language that could affect enforceability. (Example Section 2.3) The standard is a recommended practice (guideline). Does not appear to require proprietary materials or agencies.</p>
IIAR STANDARD			
F92-16	IFC: 606.12.1.1	IIAR-8-2015 <i>Decommissioning of Closed-circuit Ammonia Refrigeration Systems</i>	<p>Does not appear to require proprietary materials or agencies. Appears to be written in enforceable language. Consensus standard stated.</p>
ISO STANDARDS			
CE64-16	IECC-C: C402.3.1	ISO 9050-2003 <i>Glass in Building—Determination of light transmittance, solar direct transmittance, total solar energy transmittance, ultraviolet transmittance and related glazing factors</i>	<p>Does not indicate that standard was developed by a consensus process. The standard contains language that could affect enforceability. (Example Section 3.2) Does not appear to require proprietary materials or agencies.</p>
CE262-16	IECC-C: C202	ISO/IEC 17024-2012 <i>Conformity assessment – General requirements for bodies operating certification of persons</i>	<p>Does not indicate that standard was developed by a consensus process. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.</p>
NFPA STANDARDS			
F274-16	IMC: 502.16.1 IFGC: 304.5	NFPA 2-16 <i>Hydrogen Technologies Code</i>	<p>Currently referenced in the IFC.</p>

F144-16 F145-16	IFC: 901.6.2.3; 901.6.2.2	NFPA 4-15 <i>Standard for Integrated Fire Protection and Life Safety System Testing</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
PM3-16	IPMC: Table 704.2	NFPA 10-13 <i>Standard for Portable Fire Extinguishers</i>	Currently referenced in both the IBC and the IFC.
PM3-16	IPMC: Table 704.2	NFPA 12-11 <i>Standard on Carbon Dioxide Extinguishing Systems</i>	Currently referenced in both the IBC and the IFC.
PM3-16	IPMC: Table 704.2	NFPA 12A-09 <i>Standard on Halon 1301 Fire Extinguishing Systems</i>	Currently referenced in both the IBC and the IFC.
PM3-16	IPMC: Table 704.2	NFPA 17-13 <i>Standard for Dry Chemical Extinguishing Systems</i>	Currently referenced in both the IBC and the IFC.
PM3-16	IPMC: Table 704.2	NFPA 17A-13 <i>Standard for Wet Chemical Extinguishing Systems</i>	Currently referenced in both the IBC and the IFC.
RB169-16 F74-16	IRC-B: R327 IFC: 604.7	NFPA 37-2015 <i>Standard for the Installation and use of Stationary Combustion Engines and Gas Turbines</i>	Currently referenced in both the IFGC and the IMC.
F339-16 F340-16	IFC: 3801.2 3801.5.1.1; 3805.2.1 IBC: 427.2; 427.7.1.1, 427.3.7 IMC: 408.1 IFC: 3803.1.5, 3803.1.7	NFPA 45-2015 <i>Standard on Fire Protection for Laboratories Using Chemicals (2015 Edition)</i>	Does not appear to require proprietary materials or agencies. Appears to be written in enforceable language. Consensus standard stated.
PM3-16	IPMC: Table 704.2 IFC: 907.5.2.2.6	NFPA 72-13 <i>National Fire Alarm and Signaling Code</i>	Currently referenced in the IBC, IFC, IRC, IMC and the IEBC.
PM1-16	IPMC: 703.4.3	NFPA 80-13 <i>Standard for Fire Doors and Other Opening Protectives</i>	Currently referenced in the IBC, IEBC and the IFC.
F174-16	IFC: 904.12	NFPA 96-14 <i>Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations</i>	Currently referenced in the IMC.
F337-16	IFC: 3705.2	NFPA 150-2016 <i>Standard for Fire and Life Safety in Animal Housing Facilities</i>	Does not appear to require proprietary materials or agencies. Appears to be written in enforceable language. Consensus standard stated.
PM3-16	IPMC: Table 704.2	NFPA 204-15 <i>Standard for Smoke and Heat Venting</i>	Currently referenced in the IFC.
F258-16	IFC: 2203.1 IBC: 426.1	NFPA 652-2016 <i>The Fundamentals of Combustible Dust</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Consensus standard stated.
S261-16	IBC-S: 2303.3 IRC: R802.1.6	NFPA 703-15 <i>Standard for Fire-Retardant Treated Wood and Fire-Retardant Coating for Building Materials</i>	Consensus process stated in preface. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
PM6-16	IPMC: 704.3	NFPA 720-15 <i>Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment</i>	Currently referenced in the IFC, IBC, and the IRC.

PM3-16	IPMC: Table 704.2	NFPA 750-14 <i>Standard on Water Mist Fire Protection Systems</i>	Currently referenced in the IFC.
F111-16	IFC: 612.11, 612.12	NFPA 853-15 <i>Installation of Stationary Fuel Cell Power Systems</i>	Currently referenced in the IFGC, IMC and the IRC.
F53-16 F62-16	IFC: 510.4.2.6	NFPA 1221-16 <i>Standard for the Installation, Maintenance and Use of Emergency Services Communications Systems</i>	Does not appear to require proprietary materials or agencies. Appears to be written in enforceable language. Consensus standard stated.
PM3-16	IPMC: Table 704.2	NFPA 2001-15 <i>Standard on Clean Agent Fire Extinguishing Systems</i>	Currently referenced in both the IBC and the IFC.
F180-16	IFC: 904.13	NFPA 2010-2015 <i>Standard for Fixed Aerosol Fire-Extinguishing Systems</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
NFRC STANDARD			
CE64-16	IECC-C: C402.13	NFRC 300-2014 [EOA0] <i>Test Method for Determining the Solar Optical Properties of Glazing Materials and Systems</i>	Does not indicate that standard was developed by a consensus process. The standard contains language that could affect enforceability. (Example Sections 6.3, 7.1) Appears to require a proprietary inspection agency in Forward. (NFRC licensed)
RESNET STANDARDS			
RE82-16 RE165-16 RE166-16	IECC-R: R202 (New) [IRC N1101.6 (New)]; R406.3 (New) [IRC N1106.3(New)], R406.4.1 (New) [IRC N1106.4.1(New)], R406.6.1 (New) [IRC N1106.6.1(New)], R406.6.5 (New) [IRC N1106.6.5(New)]; R406.3 (New) [IRC N1106.3(New)], R406.6.1 (New) [IRC N1106.6.1(New)], R406.6.5 (New) [IRC N1106.6.5(New)];	ANSI/RESNET/ICC 301-2014 <i>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.</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.

RE168-16	R406.3 (New) [IRC N1106.3(New)], R406.3.1 (New) [IRC N1106.3.1(New)] R406.6.1 (New) [IRC N1106.6.1(New)], R406.6.5 (New) [IRC N1106.6.5(New)]		
RE170-16	R406.3.1 (New) [IRC N1106.3.1(New)]		
RE176-16	R406.4.1 (New) [IRC N1106.4.1(New)]		
RE83-16	IECC-R: R402.4.1.2 (New), [IRC N1102.4.1.1 (New)]	ANSI/RESNET/ICC 380-2016 <i>Standard for Testing Airtightness of Building Enclosures, Airtightness of Heating and Cooling Air Distribution Systems, and Airflow of Mechanical Ventilation Systems</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
RMI STANDARDS			
S255-16	IBC-S: 2209.2	ANSI MH16.3-2016 <i>Specification for the Design, Testing and Utilization of Industrial Steel Cantilevered Storage Racks</i>	Consensus process stated in preface. The standard contains language that could affect enforceability. See Sections 1.4.6, 4.1.3, 6.5, 8.3 & 10.4.9. Does not appear to require proprietary materials or agencies.
SJI STANDARD			
S70-16	IBC-S: 2207.1	SJI 100-2015 <i>44th Edition Standard Specifications Load Tables and Weight Tables For Steel Joists and Joist Girders K-Series, LH-Series, DHL-Series, Joist Girders</i>	Promulgation by consensus process is indicated. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
SPRI STANDARDS			
S13-16	IBC-S: 1504.3.3	ANSI BSR/SPRI-14 <i>Wind Design Standard for Vegetative Roofing Systems</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. The standard was submitted in a draft form that provides no information on its promulgation process.
S12-16	IBC-S: 1504.3.1.1	ANSI/SPRI WD-1 <i>Wind Design Standard Practice for Roofing Assemblies. Approval date 11/17/2014</i>	Promulgation by consensus process is indicated. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
S24-16 RB340-16	IBC-S: 1504.9 (NEW)	ANSI/SPRI GD-1-2010 <i>Structural Design Standard for Gutter Systems Use</i>	Appears to be written in enforceable language.

	IRC: R903.4.2	with Low-Slope Roofs	References to proprietary materials were found in Section 4.5. Promulgated according to a consensus procedure.
S16-16	IBC-S: 1504.5.1	BSR/SPRI GT-1 Test Standard for Gutter Systems	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. The standard was submitted in a draft form that provides no information on its promulgation process.
TMS STANDARDS			
RB31-16	IRC: Table R302.1; R302.2. R302.3	ACI/TMS 216.1-14 Code Requirements for Determining Fire Resistance of Concrete and Masonry Construction Assemblies	Currently referenced in the IBC.
S244-16 RB249-16	IBC-S: 2102.2 IRC: R606.1	TMS 404-16 Standard for the Design of Architectural Cast Stone	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. The standard was submitted in a draft form that provides no information on its promulgation process.
S244-16	IBC-S: 2103.1	TMS 504-16 Standard for the Fabrication of Architectural Cast Stone	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. The standard was submitted in a draft form that provides no information on its promulgation process.
S244-16	IBC-S: 2104.1	TMS 604-16 Standard for the Installation of Architectural Cast Stone	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. The standard was submitted in a draft form that provides no information on its promulgation process.
UL STANDARDS			
F266-16	IFC: 2306.8.1	UL 79A-15 Standard for Power-Operated Pumps for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations Up to 85 Percent (E0-E85)	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
CE103-16 CE272-16	IECC-C: C402.5.9, C602.5.3	UL 127-11 Standard for Factory Built Fireplaces	Currently referenced in the IECC-R.
RB372-16	IRC: AV104.5	UL 103A (2005) Outline of Investigation for Masonry Fireplace Adapters for Residential Type and Building Heating Appliance Chimneys	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
F266-16	IFC: 2306.8.1	UL 330A-12 Outline for Hose and Hose Assemblies for Use with	This is an outline only and not a standard. Appears to

		<i>Dispensing Devices Dispensing Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations Up to 85 percent (E0-E85)</i>	be written in enforceable language. Does not appear to require proprietary materials or agencies. Does not state that it is promulgated according to a consensus procedure.
F266-16	IFC: 2306.8.1	UL 567A-15 <i>Standard for Emergency Breakaway Fittings, Swivel Connectors and Pipe Connection Fittings for Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 percent (E0-E85)</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
F72-16	IFC: 603.4	UL 647-93 <i>Standard for Unvented Kerosene-Fired Room Heaters and Portable Heaters with revisions through April 2010</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Does not state that it is promulgated according to a consensus procedure.
F82-16	IFC: 605.5	UL 817-2015 <i>Standard for Cord Sets and Power-Supply cords with revisions through March 2015</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
F266-16	IFC: 2306.7, 2306.8.1	UL 842A-15 <i>Standard for Valves for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0-E85)</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
CE103-16 CE272-16	IECC-C: C402.5.9, C602.5.3	UL 907-94 <i>Fireplace Accessories-with revisions through April 2010</i>	Currently referenced in the IMC.
F108-16	IFC: 609.3.1	UL 1046-2010 <i>Grease Filters for Exhaust Ducts with revisions through January 2012</i>	Currently referenced in the IMC.

F69-16	IFC: 202, 605.4.1	UL 1363A <i>Special Purpose Relocatable Power Taps</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
F68-16	IFC: 605.4.1	UL 1449 <i>Surge Protective Devices</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
F378-16	IFC: 5703.6.2.1	UL 1489-2015 <i>Outline of Investigation for Fire Resistant Pipe Protection Systems Carrying Combustible Liquids</i>	This is an outline only and not a standard. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Does not state that it is promulgated according to a consensus procedure.
F95-16	IFC: 612.4.4	UL 1564-2015 <i>Industrial Battery Chargers</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
F112-16	IFC: 612.4.5	UL 1741-2015 <i>Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed Energy Resources</i>	Currently referenced in the IBC and the IRC.
F340-16	IFC: 3805.2.2	UL 1805-2002 <i>Standard for Laboratory Hoods and Cabinets</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Does not state that it is promulgated according to a consensus procedure.
RB351-16	IRC-B: R905.17.5	UL 1897-12 <i>Uplift Tests for Roof Covering System</i>	Currently referenced in the IBC.
F97-16 F112-16	IFC: 608.2, 612.4.1	UL 1973-13 <i>Standard for Batteries for Use in Light Electric Rail (LER) Applications and Stationary Applications</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
F110-16	IFC: 610.3	UL 2152-15 <i>Outline of Investigation for Special Purpose</i>	This is an outline only and not a standard. Appears to

		<i>Nonmetallic Containers & Tanks for Specific Combustible or Non-Combustible Liquids</i>	be written in enforceable language. Does not appear to require proprietary materials or agencies. Does not state that it is promulgated according to a consensus procedure.
S23-16 S17-16	IBC-S: 1504.9; 1504.7; 1504.9 NEW	UL 2218-2010 <i>Impact Resistance of Prepared Roof Covering Materials, with revisions through May 1, 2012</i>	Consensus process stated in preface. Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies.
F266-16	IFC: 2306.8.1	UL 2586A-15 <i>Standard for Hose Nozzle Valves for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations Up to 85 Percent (E0-E85)</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
RB339-16	IRC-B: R902.4	UL 2703-14 <i>Mounting Systems, Mounting Devices, Clamping/Retention Devices and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels</i>	UL 2703-15 was provided for review. The standard contains language that could affect enforceability. See Sections 6.5, 6.7, 9.4, 10, 1. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure. UL 2703-14 was approved by code change S2-15 submitted for the Group A 2015 cycle.
F97-16 F95-16 RB171-16	IFC: 608.2, 612.4.1 IRC: R327.2. R327.4	UL 9540-14 <i>Outline of Investigation for Energy Storage Systems and Equipment</i>	Appears to be written in enforceable language. Does not appear to require proprietary materials or agencies. Promulgated according to a consensus procedure.
UN STANDARD			
F404-16	IFC: H104	ST/SG/AC.10/30/Rev. 4-2011 <i>Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Fourth revised edition</i>	The standard contains language that could affect enforceability. (Note this document has many occurrences of non-mandatory language these are simply examples Sections 2.1.4, 2.7.4, 2.11.4.1, 2.14.4.2.1, 3.2.2.2, 3.4.2.2.4.1)

			Does not appear to require proprietary materials or agencies. Standard preface does not announce a consensus process used for this standard.
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3.6 Referenced Standards: In order for a standard to be considered for reference or to continue to be referenced by the Codes, a standard shall meet the following criteria:

3.6.1 Code References:

- 3.6.1.1 The standard, including title and date, and the manner in which it is to be utilized shall be specifically referenced in the Code text.
- 3.6.1.2 The need for the standard to be referenced shall be established.

3.6.2 Standard Content:

- 3.6.2.1 A standard or portions of a standard intended to be enforced shall be written in mandatory language.
- 3.6.2.2 The standard shall be appropriate for the subject covered.
- 3.6.2.3 All terms shall be defined when they deviate from an ordinarily accepted meaning or a dictionary definition.
- 3.6.2.4 The scope or application of a standard shall be clearly described.
- 3.6.2.5 The standard shall not have the effect of requiring proprietary materials.
- 3.6.2.6 The standard shall not prescribe a proprietary agency for quality control or testing.
- 3.6.2.7 The test standard shall describe, in detail, preparation of the test sample, sample selection or both.
- 3.6.2.8 The test standard shall prescribe the reporting format for the test results. The format shall identify the key performance criteria for the element(s) tested.
- 3.6.2.9 The measure of performance for which the test is conducted shall be clearly defined in either the test standard or in Code text.
- 3.6.2.10 The standard shall not state that its provisions shall govern whenever the referenced standard is in conflict with the requirements of the referencing Code.
- 3.6.2.11 The preface to the standard shall announce that the standard is promulgated according to a consensus procedure.

3.6.3 Standard Promulgation:

3.6.3.1 Code change proposals with corresponding changes to the code text which include a reference to a proposed new standard or a proposed update of an existing referenced shall comply with this section. The standard shall be completed and readily available prior to Public Comment Hearing based on the cycle of code development which includes the proposed code change proposal. In order for a new standard to be considered for reference by the Code, such standard shall be submitted in at least a consensus draft form in accordance with Section 3.4. Updating of standards without corresponding code text changes shall be accomplished administratively in accordance with Section 4.6.

3.6.3.2 The standard shall be developed and maintained through a consensus process such as ASTM or ANSI.