



**National Fire Protection Association**

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## *Agenda*

**NFPA Technical Committee on Fire Tests  
Fall 2011 Report on Proposals  
August 16-17<sup>th</sup>, 2010  
Embassy Suites Baltimore at BWI Airport  
1300 Concourse Drive  
Linthicum, Maryland 21090**

1. Call to order at 8:00 AM, August 16, 2010 – W. Fitch.
2. Self-introduction of members and guests (**Agenda Attachment A**, p. 02).
3. Approval of April 15-16, 2010 meeting minutes (**Agenda Attachment B**, p. 06).
4. Chair's report – W. Fitch.
5. Staff liaison's report – T. Golinveaux
6. NFPA 252 proposals (**Agenda Attachment C**, p. 16).
7. NFPA 257 proposals (**Agenda Attachment D**, p. 18).
8. NFPA 268 proposals (**Agenda Attachment E**, p. 20).
9. NFPA 269 proposals (**Agenda Attachment F**, p. 22).
10. NFPA 271 proposals (**Agenda Attachment G**, p. 24).
11. NFPA 275 proposals (**Agenda Attachment H**, p. 26).
12. NFPA 287 proposals (**Agenda Attachment I**, p. 31).
13. NFPA 288 proposals (**Agenda Attachment J**, p. 33).
14. NFPA 285 comments (approved for F2011 cycle) (**Agenda Attachment K**, p. 35).
15. Review fire test document revision matrix (**Agenda Attachment L**, p. 52).
16. Other business.
  - i) NFPA 276 NITMAM not pursued
17. Next meetings (**Agenda Attachment M**, p. 56).

A2012 ROP: -Proposal closing date: November 23, 2010  
-Latest meeting date: February 25, 2011

F2011 ROC: -Comment closing date: March 4, 2011  
-Latest meeting date: May 6, 2011
18. Adjourn by noon on Tuesday, August 17<sup>th</sup>, 2010.

**AGENDA  
ATTACHMENT A**

# Address List No Phone

7/14/2010  
Tracy L. Golinveaux  
FIZ-AAA

## Fire Tests

<b>William E. Fitch</b> <b>Chair</b> Phyrefish Enterprises, Inc. 31 SE 5th Street, Suite 3815 Miami, FL 33131-2528	<b>SE 1/1/1993</b> <b>FIZ-AAA</b>	<b>Farid Alfawakhiri</b> <b>Principal</b> American Iron and Steel Institute 594 Windham Lane Naperville, IL 60563 <b>Alternate: Robert J. Wills</b>	<b>M 7/28/2006</b> <b>FIZ-AAA</b>
<b>Barry L. Badders, Jr.</b> <b>Principal</b> Southwest Research Institute 6220 Culebra Road San Antonio, TX 78238-5166 <b>Alternate: David M. Ewan</b>	<b>RT 4/14/2005</b> <b>FIZ-AAA</b>	<b>Jesse J. Beitel</b> <b>Principal</b> Hughes Associates, Inc. 3610 Commerce Drive, Suite 817 Baltimore, MD 21227-1652 <b>Alternate: Arthur J. Parker</b>	<b>SE 1/1/1980</b> <b>FIZ-AAA</b>
<b>Robert G. Bill, Jr.</b> <b>Principal</b> FM Global 1151 Boston-Providence Turnpike PO Box 9102 Norwood, MA 02062-9102 <b>Alternate: Richard J. Davis</b>	<b>I 10/10/1998</b> <b>FIZ-AAA</b>	<b>Gordon H. Damant</b> <b>Principal</b> Inter-City Testing & Consulting Corp. of California 3550 Watt Avenue, Suite 5 Sacramento, CA 95821	<b>SE 7/20/2000</b> <b>FIZ-AAA</b>
<b>Thomas W. Fritz</b> <b>Principal</b> Armstrong World Industries, Inc. Research & Development Center 2500 Columbia Avenue Lancaster, PA 17603 <b>Alternate: Paul A. Hough</b>	<b>M 1/1/1992</b> <b>FIZ-AAA</b>	<b>Gordon E. Hartzell</b> <b>Principal</b> Hartzell Consulting, Inc. 3318 Litchfield Drive San Antonio, TX 78230	<b>SE 7/17/1998</b> <b>FIZ-AAA</b>
<b>Marcelo M. Hirschler</b> <b>Principal</b> GBH International 2 Friar's Lane Mill Valley, CA 94941	<b>SE 4/1/1996</b> <b>FIZ-AAA</b>	<b>Alfred J. Hogan</b> <b>Principal</b> 3391 Lakeview Drive, SE Winter Haven, FL 33884-3172 <b>International Fire Marshals Association</b> <b>Alternate: Scott W. Adams</b>	<b>E 1/1/1992</b> <b>FIZ-AAA</b>
<b>William E. Koffel</b> <b>Principal</b> Koffel Associates, Inc. 6522 Meadowridge Road, Suite 101 Elkridge, MD 21075 <b>Alternate: James K. Lathrop</b>	<b>SE 4/1/1996</b> <b>FIZ-AAA</b>	<b>James R. Lawson</b> <b>Principal</b> National Institute of Standards & Technology Building & Fire Research Laboratory Bldg. 224, Stop 8661 Gaithersburg, MD 20899 <b>Alternate: Richard G. Gann</b>	<b>RT 1/1/1991</b> <b>FIZ-AAA</b>

# Address List No Phone

7/14/2010  
Tracy L. Golinveaux  
FIZ-AAA

## Fire Tests

<b>Michael E. Luna</b> <b>Principal</b> Intertek Testing Services 16015 Shady Falls Road Elmendorf, TX 78112 <b>Alternate: Deggary N. Priest</b>	<b>RT 10/28/2008</b> <b>FIZ-AAA</b>	<b>Andre W. Marshall</b> <b>Principal</b> University of Maryland 3106 J. M. Patterson Building College Park, MD 20742-3031 <b>Alternate: James A. Milke</b>	<b>SE 10/27/2009</b> <b>FIZ-AAA</b>
<b>Rodney A. McPhee</b> <b>Principal</b> Canadian Wood Council 99 Bank Street, Suite 400 Ottawa, ON K1P 6B9 Canada	<b>M 7/17/1998</b> <b>FIZ-AAA</b>	<b>Kathleen A. Newman</b> <b>Principal</b> Firetect 26951 Ruether Avenue, Unit D Canyon Country, CA 91351	<b>M 3/2/2010</b> <b>FIZ-AAA</b>
<b>David T. Sheppard</b> <b>Principal</b> US Bureau of Alcohol, Tobacco, Firearms & Explosives Fire Research Laboratory 6000 Ammendale Road Ammendale, MD 20705	<b>RT 10/3/2002</b> <b>FIZ-AAA</b>	<b>Dwayne E. Sloan</b> <b>Principal</b> Underwriters Laboratories Inc. 12 Laboratory Drive PO Box 13995 Research Triangle Park, NC 27709-3995	<b>RT 7/28/2006</b> <b>FIZ-AAA</b>
<b>Kuma Sumathipala</b> <b>Principal</b> American Forest & Paper Association 1111 19th Street NW, Suite 800 Washington, DC 20036 <b>American Forest &amp; Paper Association</b> <b>Alternate: Sam W. Francis</b>	<b>M 7/24/1997</b> <b>FIZ-AAA</b>	<b>T. Hugh Talley</b> <b>Principal</b> Hugh Talley Company 3232 Landmark Drive Morristown, TN 37814 <b>Upholstered Furniture Action Council</b> <b>Alternate: Joe Ziolkowski</b>	<b>M 1/1/1988</b> <b>FIZ-AAA</b>
<b>Rick Thornberry</b> <b>Principal</b> The Code Consortium, Inc. 2724 Elks Way Napa, CA 94558	<b>SE 1/1/1980</b> <b>FIZ-AAA</b>	<b>Robert A. Wessel</b> <b>Principal</b> Gypsum Association 6525 Belcrest Road, Suite 480 Hyattsville, MD 20782	<b>M 4/17/1998</b> <b>FIZ-AAA</b>
<b>Scott W. Adams</b> <b>Alternate</b> Park City Fire Service District PO Box 980010 Park City, UT 84098-0010 <b>International Fire Marshals Association</b> <b>Principal: Alfred J. Hogan</b>	<b>E 11/2/2006</b> <b>FIZ-AAA</b>	<b>Richard J. Davis</b> <b>Alternate</b> FM Global 1151 Boston-Providence Turnpike PO Box 9102 Norwood, MA 02062-9102 <b>Principal: Robert G. Bill, Jr.</b>	<b>I 4/3/2003</b> <b>FIZ-AAA</b>
<b>David M. Ewan</b> <b>Alternate</b> Southwest Research Institute 6220 Culebra Road, Building 143 San Antonio, TX 78238 <b>Principal: Barry L. Badders, Jr.</b>	<b>RT 7/23/2008</b> <b>FIZ-AAA</b>	<b>Sam W. Francis</b> <b>Alternate</b> American Forest & Paper Association 1 Dutton Farm Lane West Grove, PA 19390 <b>American Forest &amp; Paper Association</b> <b>Principal: Kuma Sumathipala</b>	<b>M 7/1/1996</b> <b>FIZ-AAA</b>

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7/14/2010  
Tracy L. Golinveaux  
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## Fire Tests

<b>Richard G. Gann</b>	<b>RT 7/1/1995</b>	<b>Paul A. Hough</b>	<b>M 1/16/2003</b>
<b>Alternate</b> National Institute of Standards & Technology 100 Bureau Drive, Stop 8664 Gaithersburg, MD 20899-8664 <b>Principal: James R. Lawson</b>	<b>FIZ-AAA</b>	<b>Alternate</b> Armstrong World Industries, Inc. 2500 Columbia Avenue Lancaster, PA 17604 <b>Principal: Thomas W. Fritz</b>	<b>FIZ-AAA</b>
<b>James K. Lathrop</b>	<b>SE 10/1/1999</b>	<b>James A. Milke</b>	<b>SE 1/1/1982</b>
<b>Alternate</b> Koffel Associates, Inc. 81 Pennsylvania Avenue Niantic, CT 06357 <b>Principal: William E. Koffel</b>	<b>FIZ-AAA</b>	<b>Alternate</b> University of Maryland Department of Fire Protection Engineering 3104 JM Patterson Building College Park, MD 20742 <b>Principal: Andre W. Marshall</b>	<b>FIZ-AAA</b>
<b>Arthur J. Parker</b>	<b>SE 10/4/2001</b>	<b>Deggary N. Priest</b>	<b>RT 10/27/2005</b>
<b>Alternate</b> Hughes Associates, Inc. 3610 Commerce Drive, Suite 817 Baltimore, MD 21227-1652 <b>Principal: Jesse J. Beitel</b>	<b>FIZ-AAA</b>	<b>Alternate</b> Intertek Testing Services 16015 Shady Falls Road Elmendorf, TX 78112 <b>Principal: Michael E. Luna</b>	<b>FIZ-AAA</b>
<b>Robert J. Wills</b>	<b>M 1/1/1992</b>	<b>Joe Ziolkowski</b>	<b>M 1/1/1992</b>
<b>Alternate</b> American Iron and Steel Institute 907 Spyglass Circle Birmingham, AL 35244-2252 <b>Principal: Farid Alfawakhiri</b>	<b>FIZ-AAA</b>	<b>Alternate</b> American Furniture Manufacturers Association 317 West High Avenue, 10th Floor High Point, NC 27260 <b>Upholstered Furniture Action Council</b> <b>Principal: T. Hugh Talley</b>	<b>FIZ-AAA</b>
<b>Robert H. Barker</b>	<b>M 1/1/1995</b>	<b>Rohit Khanna</b>	<b>C 7/1/1997</b>
<b>Nonvoting Member</b> American Fiber Manufacturers Association 1530 Wilson Boulevard, Suite 690 Arlington, VA 22209 <b>American Fiber Manufacturers Association</b>	<b>FIZ-AAA</b>	<b>Nonvoting Member</b> US Consumer Product Safety Commission 4330 East West Highway Bethesda, MD 20814	<b>FIZ-AAA</b>
<b>Tracy L. Golinveaux</b>	<b>01/04/2010</b>		
<b>Staff Liaison</b> National Fire Protection Association 1 Batterymarch Park Quincy, MA 02169-7471	<b>FIZ-AAA</b>		

**AGENDA  
ATTACHMENT B**

**NFPA Technical Committee on Fire Tests  
FALL 2010 ROC MEETING MINUTES**

April 15-16, 2010  
Southwest Research Institute  
San Antonio, TX

**1. Call to Order.**

The meeting of the Technical Committee on Fire Tests was called to order by Chair Bill Fitch at 8:36 AM on Thursday, April 15, 2010.

**2. Introduction of Committee Members and Guests.**

Self introductions of members and guests were completed. Those present included:

**TECHNICAL COMMITTEE MEMBERS PRESENT**

<b>NAME</b>	<b>REPRESENTING</b>
Fitch, William, Chair	Phyrefish Enterprises, Inc.
Golinveaux, Tracy, Staff Liaison	National Fire Protection Association
Alfawakhiri, Farid, Principal	American Iron and Steel Institute
Badders, Barry, Principal	Southwest Research Institute
Beitel, Jesse, Principal	Hughes Associates, Inc.
Damant, Gordon, Principal	Inter-City Testing & Consulting Corp. of California
Fritz, Thomas, Principal	Armstrong World Industries, Inc.
Koffel, William, Principal	Koffel Associates, Inc.
Luna, Michael, Principal	Intertek Testing Services
McPhee, Rodney, Principal	Canadian Wood Council
Sloan, Dwayne, Principal	Underwriters Laboratories, Inc.
Sumathipala, Kuma, Principal	American Forest & Paper Association
Thornberry, Rick, Principal	The Code Consortium, Inc.
Wessel, Robert, Principal	Gypsum Association
Hirschler, Marcelo, Principal	GBH International

**GUESTS**

<b>NAME</b>	<b>REPRESENTING</b>
Harrington, Gregory	National Fire Protection Association
Trevino, Javier	Intertek

**TECHNICAL COMMITTEE MEMBERS NOT PRESENT**

<b>NAME</b>	<b>REPRESENTING</b>
Adams, Scott (Alt. to A. Hogan)	Park City Fire Service District Rep. International Fire Marshals Association
Bill, Robert, Principal	FM Global

Davis, Richard (Alt. to R. Bill)	FM Global
Gann, Richard (Alt. to J. Lawson)	US National Institute of Standards & Technology
Hartzell, Gordon, Principal	Hartzell Consulting, Inc.
Hogan, Alfred, Principal	Rep. International Fire Marshals Association
Lawson, James, Principal	National Institute of Standards & Technology
Marshall, Andre, Principal	University of Maryland
Milke, James (Alt. to A. Marshall)	University of Maryland
Newman, Kathleen, Principal	Firetect
Sheppard, David, Principal	US Bureau of Alcohol, Tobacco, Firearms
Talley, T. Hugh, Principal	Rep. Upholstered Furniture Action Council
Ziolkowski, Joe (Alt. to T. H. Talley)	American furniture Manufacturers Association Rep. Upholstered furniture Action Council

**3. Chair’s Report.**

The chair welcomed and thanked the committee members present for attending and indicated the purpose of the meeting was to prepare the Reports on Comments for the Fall 2010 revision cycle documents. The chair recognized the two new committee members, Kathleen Newman and Andre Marshal.

Staff briefly reviewed the purpose of the meeting and NFPA procedures. Tracy Golinveaux was introduced as the new staff liaison for the committee. By the end of the meeting, an action would be completed for each of the public comments that were received. The committee would also have the opportunity to develop any committee comments to address any topics or issues related to the standards under revision. Staff reviewed the timelines for processing documents (NFPA 251, 253, 262, 265, 285, and 286) in the Fall 2010 cycle.

Process Step	Date
Proposal Closing	May 2009
ROP Meeting	July 2009
ROP Published	December 2009
Comment Closing	March 5, 2010
Ballots Sent Out	June 25, 2010
ROC Published	August 2010
NITMAM Closing	October 22, 2010

**4. Approval of Minutes.**

The minutes of the July 30-31, 2009 meeting were approved as submitted.

**5. Next Meeting Date.**

The next meeting date was changed to Monday-Tuesday, August 16-17, 2010, due to a conflict with another committee meeting.

**6. NFPA 251 Comments.**

The committee acted on the public comments. See the ROC letter ballot for the committee actions.

**7. NFPA 253 Comments.**

The committee acted on the public comments. See the ROC letter ballot for the committee actions.

**8. NFPA 262 Comments.**

The committee acted on the public comments. See the ROC letter ballot for the committee actions.

**9. NFPA 265 Comments.**

The committee acted on the public comments and created 4 committee comments. See the ROC letter ballot for the committee actions.

**10. NFPA 285 Comments.**

The committee voted to hold NFPA 285 for the next cycle in order to have more time to process comments without reopening for public comments.

**11. NFPA 286 Comments.**

The committee acted on the public comments and created 4 committee comments. See the ROC letter ballot for the committee actions.

**12. NFPA 276 NITMAM.**

M. Hirschler discussed his certified amending motion (CAM) on NFPA 276 to return the document to the committee, and indicated he will most likely not pursue the motion given the lack of support by any TC member.

**13. Fire Test Revision Matrix.**

Staff was directed by the Standards Council to move our documents into the Fall Cycles. Staff requested that all Annual 2012 documents be moved into the Fall 2012 cycle and all Annual 2013 documents be moved to Fall 2012. This would eliminate the need for multiple meetings during a calendar year and condense the number of document cycles we have within the committee. A motion passed directing staff to process the cycle changes accordingly.

**14. Other Business.**

Committee members discussed the NFPA/UL/ASTM harmonization effort. ASTM reported that they have not withdrawn any of their standards and D. Sloan reported that a MOU has been issued and is circulating. Please see Appendix A for an updated harmonization list.

**15. Adjournment.**

The meeting was adjourned at 9:30 a.m. on April 16, 2010.

Minutes prepared by: Tracy Golinveaux, Staff Liaison

# Appendix A

## Harmonization List

ASTM	NFPA	UL
E0084 Standard Test Method for Surface Burning Characteristics of Building Materials	255 Test of Surface Burning Characteristics of Building Materials, <b>(Method Withdrawn)</b>	723 Test for Surface Burning Characteristics of Building Materials
E0108 Standard Test Methods for Fire Tests of Roof Coverings	256 Fire Tests of Roof Coverings, <b>(Method Withdrawn)</b>	790 Tests for Fire Resistance of Roof Covering Materials
E0119 Standard Test Methods for Fire Tests of Building Construction and Materials	251 Tests of Fire Endurance of Building Construction and Materials	263 Fire Tests of Building Construction and Materials
E0136 Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750oC		
E0162 Standard Test Method for Surface Flammability of Materials Using a Radiant Heat Energy Source		
E0176 Standard Terminology of Fire Standards		
E0535 Standard Practice for Preparation of Fire-Test-Response Standards		
E0603 Standard Guide for Room Fire Experiments		
E0648 Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using Radiant Heat Energy Sources	253 Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source	
E1321 Standard Test Method for Determining Material Ignition and Flame Spread Properties		
E1352 Standard Test Method for Cigarette Ignition Resistance of Mock-Up Upholstered Furniture Assemblies	261 Test for Resistance of Mock-Up Upholstered Furniture Material Assemblies to Ignition by Smoldering Cigarettes, <b>(Method Withdrawn)</b>	

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E0662 Standard Test Method for Specific Optical Density	258 Test Method for Determining Smoke Generation of Solid Materials, <b>(Method Withdrawn)</b>	
E0800 Standard Guide for Measurement of Gases Present or Generated During Fires		
E0814 Standard Test Method for Fire Tests of Through-Penetration Fire Stops		1479 Fire Test of Through Penetration Stops
E0906 Standard Test Method for Heat and Visible Smoke Release Rates for Materials and Products		
E0970 Standard Test Method for Critical Radiant Flux of Exposed Attic Floor Insulation Using a Radiant Heat Energy Source		
E1317 Standard Test Method for Flammability of Marine Surface Finishes		
E1474 Standard Test Method for Determining the Heat Release Rate of Upholstered Furniture Using a Bench Scale Oxygen Consumption Calorimeter	272 Method of Test for Heat Release Rates for Upholstered Furniture Components Using Oxygen Consumption Calorimeter	
E1321 Standard Test Method for Determining Material Ignition and Flame Spread Properties		
E1353 Standard Test Methods for Cigarette Ignition Resistance of Components of Upholstered Furniture	260 Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture	
E1354 Standard Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter	271 Method of Test for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter	
E1355 Standard Guide for Evaluating the Predictive Capability of Deterministic Fire Models		
E1472 Standard Guide for Documenting Computer Software for Fire Model		

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E1529 Standard Test Methods for Determining Effects of Large Hydrocarbon Pool Fires on Structural Members and Assemblies		
E1537 Standard Test Method for Fire Testing of Upholstered Furniture	266 Standard Method of Test for Fire Characteristics of Upholstered Furniture Exposed to Flaming Ignition Source <b>(Method Withdrawn)</b>	1056 Fire Test of Upholstered Furniture <b>(Method Withdrawn)</b>
E1546 Standard Guide for Development of Fire-Hazard-Assessment Standards		
E1590 Standard Test Method for Fire Testing of Mattresses	267 Standard Method of Test for Fire Characteristics of Mattresses & Bedding Assemblies <b>(Method Withdrawn)</b>	1895 Standard for Safety for Fire Test of Mattresses <b>(Method Withdrawn)</b>
E1591 Standard Guide for Obtaining Data for Deterministic Fire Models		
E1623 Standard Test Method for Determination of Fire and Thermal Parameters of Materials, Products, and Systems Using an Intermediate Scale	285 Method of Test for Flammability Characteristics of Exterior Non-Load-Bearing Wall Assemblies	
E1678 Standard Test Method for Measuring Smoke Toxicity for Use in Fire Hazard Analysis	269 Test Method for Toxic Potency Data for Use in Fire Hazard Modeling	
E1725 Standard Test Methods for Fire Tests of Fire-Resistive Barrier Systems for Electrical System Components		1724 <b>(Method Withdrawn)</b>
E1740 Standard Test Method for Determining the Heat Release Rate and Other Characteristics of Wallcovering Composite Using a Cone Calorimeter		
E1776 Standard Guide for Development of Fire-Risk-Assessment Standards		
E1822 Standard Test Method for Fire Testing of Stacked Chairs		

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E1895 Standard Guide for Determining Uses and Limitations of Deterministic Fire Models		
E1966 Standard Test Method for Fire-Resistive Joint Systems		2079 Fire Resistive of Building Joint Systems
E1995 Standard Test Method for Measurement of Smoke Obscuration Using a Conical Radiant Source	270 Standard Method of Test for Measurement of Smoke Obscuration Using a Conical Radiant Source in a Single Closed Chamber	
E2010 Standard Test Method for Positive Pressure Fire Tests of Window Assemblies <b>(Method Withdrawn)</b>	257 Fire Test of Window and Glass Block Assemblies	9 Fire Tests of Window Assemblies
E2032 Standard Guide for Extension of Data From Fire Endurance Tests		
E2058 Standard Test Methods for Measurement of Synthetic Polymer Material Flammability Using a Fire Propagation Apparatus (FPA)	287 Material Flammability Using Fire Propagation Apparatus	
E2061 Guide for Fire Hazard Assessment of Rail Transportation Vehicles		
E2067 Standard Practice for Full-Scale Oxygen Consumption Calorimetry Fire Tests		
E2074 Standard Test Method for Fire Tests of Door Assemblies, Including Positive Pressure Testing of Side-Hinged and Pivoted Swinging Door Assemblies <b>(Method Withdrawn)</b>	252 Fire Tests of Door Assemblies	
E2102 Standard Test Method for Measurement of Mass Loss and Ignitability for Screening Purposes Using a Conical Radiant Heater		
E2187 Standard Test Method for Measuring the Ignition Strength of Cigarettes		
E2226 Standard Practice for Application of Hose Stream		

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E2230 Standard Practice for Thermal Qualification of Type B Packages for Radioactive Material		
E2231 Standard Practice for Specimen Preparation and Mounting of Pipe and Duct Insulation Materials to Assess Surface Burning Characteristics		
E2336 Standard Test for Fire Resistive Grease Ducts Enclosures		2221 Test for Fire Resistance of Grease Ducts Enclosure Assemblies
E2257 Standard Test Method for Room Fire Test of Wall and Ceiling Materials and Assemblies	286 Fire Tests for Room Corner Procedures	
E2280 Standard Guide for Fire Hazard Assessment of the Effect of Upholstered Seating Furniture Within Patient Rooms of Health Care Facilities		
E2307 Test Method for Determining the Fire Endurance of Perimeter Fire Barrier Systems Using the Intermediate Scale Multi-Story Test Apparatus		
	259 Test Method for Potential Heat of Building Materials,	
	262 Test for Fire and Smoke Characteristics of Wires and Cables	
	265 Fire Tests for Evaluating Room Fire Growth Contribution of Textile Wall Coverings	
	268 Test Method for Determining Ignitibility of Exterior Wall Assemblies Using a Radiant Heat Energy Source	
E0662 Standard Test Method for Specific Optical Density	270 Determination of Specific Optical Density of Smoke	
	273 Determining the Degrees of Combustibility of Building Materials (PROPOSED)	

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	274 Evaluate Fire Performance Characteristics of Pipe Insulation	
	275 Standard Method of Fire Tests for the Evaluation of Thermal Barriers Used over Foam Plastic Insulation	
	276 Standard Method of Fire Tests for Determining the Heat Release Rate of Roofing Assemblies with Combustible Above-Deck Roofing Components	
	284 Mattress for Correctional Occupancies (PROPOSED)	
	288 Fire Tests of Floor Fire Door Assemblies	
	289 Room Fire Growth Contribution of Individual Fuel Packages (PROPOSED)	
	290 Standard for Fire Testing of Passive Protection Materials for Use on LP-Gas Containers	
	701 Fire Tests for Flame-Resistant Textiles and Films	
	705 Field Flame Test for Textiles and Films	

AGENDA  
ATTACHMENT C

252- Log #CP1  
(Entire Document)

Final Action:

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**Submitter:** Technical Committee on Fire Tests,

**Recommendation:** Review entire document to: 1) Update any extracted material by preparing separate proposals to do so, and 2) review and update references to other organizations documents, by preparing proposal(s) as required.

**Substantiation:** To conform to the NFPA Regulations Governing Committee Projects.

AGENDA  
ATTACHMENT D

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257- Log #CP2  
(Entire Document)

**Final Action:**

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**Submitter:** Technical Committee on Fire Tests,

**Recommendation:** Review entire document to: 1) Update any extracted material by preparing separate proposals to do so, and 2) review and update references to other organizations documents, by preparing proposal(s) as required.

**Substantiation:** To conform to the NFPA Regulations Governing Committee Projects.

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257- Log #CP1  
(3.3.6 Opening)

**Final Action:**

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**Submitter:** Technical Committee on Fire Tests,

**Recommendation:** Adopt the preferred definition from the NFPA Glossary of Terms as follows:

**3.3.6 Opening.** ~~For the purpose of this standard,~~A through-hole in the fire window assembly that can be seen from the unexposed side while looking through the plane of the assembly from a perpendicular position. [252, 2008]

**Substantiation:** This definition is the preferred definition from the Glossary of Terms. Changing the secondary definition to the preferred definition complies with the Glossary of Terms Project.

**AGENDA  
ATTACHMENT E**

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268- Log #CP2  
(Entire Document)

Final Action:

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Submitter: Technical Committee on Fire Tests,

Recommendation: Review entire document to: 1) Update any extracted material by preparing separate proposals to do so, and 2) review and update references to other organizations documents, by preparing proposal(s) as required.

Substantiation: To conform to the NFPA Regulations Governing Committee Projects.

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268- Log #1  
(1.1.4.1)

Final Action:

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Submitter: Marcelo M. Hirschler, GBH International

Recommendation: Revise text to read as follows:

*Replace the term "fire endurance" by the term "fire resistance" in section 1.1.4.1.*

1.1.4.1 This method shall not be used to evaluate the fire ~~resistance~~ ~~endurance~~ of wall assemblies, nor shall it be used to evaluate the effect of fires originating within the building or within the exterior wall assemblies.

Substantiation: The term "fire endurance" is being replaced in all NFPA documents by the preferred term "fire resistance". The term "fire endurance classification" is being replaced by "fire resistance rating".

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268- Log #CP1  
(3.3.1 Heat Flux)

Final Action:

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Submitter: Technical Committee on Fire Tests,

Recommendation: Adopt the preferred definition from the NFPA Glossary of Terms as follows:

Substantiation: This definition is the preferred definition from the Glossary of Terms. Changing the secondary definition to the preferred definition complies with the Glossary of Terms Project.

**AGENDA  
ATTACHMENT F**

269- Log #CP1  
(Entire Document)

**Final Action:**

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**Submitter:** Technical Committee on Fire Tests,

**Recommendation:** Review entire document to: 1) Update any extracted material by preparing separate proposals to do so, and 2) review and update references to other organizations documents, by preparing proposal(s) as required.

**Substantiation:** To conform to the NFPA Regulations Governing Committee Projects.

AGENDA  
ATTACHMENT G

271- Log #CP1  
(Entire Document)

Final Action:

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Submitter: Technical Committee on Fire Tests,

Recommendation: Review entire document to: 1) Update any extracted material by preparing separate proposals to do so, and 2) review and update references to other organizations documents, by preparing proposal(s) as required.

Substantiation: To conform to the NFPA Regulations Governing Committee Projects.

AGENDA  
ATTACHMENT H

275- Log #CP1  
(Entire Document)

Final Action:

Submitter: Technical Committee on Fire Tests,

Recommendation: Review entire document to: 1) Update any extracted material by preparing separate proposals to do so, and 2) review and update references to other organizations documents, by preparing proposal(s) as required.

Substantiation: To conform to the NFPA Regulations Governing Committee Projects.

275- Log #9  
(Title, 1.1, 1.2, 1.3, 3.3, 5.1.6.1, and A.1.1.1)

Final Action:

Submitter: Rick Thornberry, The Code Consortium, Inc. / Rep. 3A Composites USA, Inc.

Recommendation: Revise text to read as follows:

Standard Method of Fire Tests for the Evaluation of Thermal Barriers ~~Used Over Foam Plastic Insulation~~

1.1 Scope.

1.1.1\* This method of fire tests for qualifying a thermal barrier for protecting foam plastic insulation or metal composite materials (MCM) ( herein referred to as a thermal barrier) is applicable to building construction materials, products, or assemblies intended to be used to protect foam plastic insulation or MCM from direct fire exposure.

1.1.2 The performance of the thermal barrier is evaluated by its ability to limit the temperature rise on its unexposed surface and by the ability of the thermal barrier to remain in tact in order to provide protection from ignition of the foam plastic insulation or MCM during a standard fire exposure.

1.2.2 Part II evaluates the ability of the thermal barrier to remain intact in order to provide protection from ignition of the foam plastic insulation or MCM by conducting a test of the thermal barrier and foam plastic insulation or MCM assembly in accordance with a standard room/corner fire test method.

1.3.1 This method of fire tests evaluates the ability of the thermal barrier to prevent ignition of foam plastic insulation or MCM from a standard fire exposure for a period of 15 minutes.

1.3.2 This method of fire tests also evaluates the ability of the thermal barrier to remain in place and prevent ignition of foam plastic insulation or MCM for a period of 15 minutes during a standard room/corner fire exposure.

3.3.2 Metal Composite Material (MCM). A factory-manufactured panel consisting of metal skins bonded to both faces of a core made of any plastic other than a foam plastic insulation as defined in 3.3.1. [5000, 2009]

3.3.3 Thermal Barrier ~~for Foam Plastic Insulation (Thermal Barrier)~~. A material, product, or assembly that prevents or delays ignition of foam plastic insulation or MCM by limiting the temperature rise on the surface of the foam plastic insulation or MCM and by acting as a flame exposure barrier to the foam plastic insulation or MCM for a 15-minute time period.

5.1 Test Method. The thermal barrier and foam plastic insulation or MCM shall be tested in accordance with NFPA 286, FM 4880, UL 1040, or UL 1715.

5.1.1 The specific type of foam plastic insulation or MCM to be protected by the thermal barrier shall be installed on a substrate and shall form the interior surface of the test walls and ceiling.

5.1.2 The thermal barrier shall be installed over the interior face of the foam plastic insulation or MCM in the manner for which recognition is desired, ~~except as indicated in 5.1.3.~~

5.1.3 ~~If the thermal barrier is intended to be used over metal composite materials (MCM);~~ The foam plastic insulation or the MCM shall be tested at the maximum thickness intended for use.

5.1.4 The assemblage of foam plastic insulation or MCM and applied thermal barrier described in 5.1.2 ~~or 5.1.3, as applicable,~~ shall be considered the test assembly.

6.1 Test Report

(8) Density, thickness, and type of foam plastic insulation or MCM used in the Part II test

A.1.1.1 Model building codes require foam plastic insulation and, in some installations, metal composite materials (MCM) to be covered by, or separated from the interior of the building by, a thermal barrier to reduce the possibility of ignition or delay its occurrence. The typical time specified is 15 minutes based on a fire exposure similar to that in NFPA 251, ASTM E119, or UL 263. The fire exposure conditions in these test methods are similar.

Substantiation: This test method also applies to Metal Composite Materials (MCM). See Section 5.1.3.

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275- Log #10  
(1.2, 1.3, 1.3.3 and 1.3.4)

Final Action:

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Submitter: Rick Thornberry, The Code Consortium, Inc. / Rep. 3A Composites USA, Inc.

Recommendation: Revise text to read as follows:

Re-number and redesignate Section 1.2 Purpose as Section 1.3 Application and renumber and redesignate Section 1.3 Application as Section 1.2 Purpose and relocate accordingly. Renumber Sections 1.3.3 and 1.3.4 as Sections 1.1.3 and 1.1.4, respectively, and relocate to Section 1.1 Scope. Also revise current Sections 1.3.1 and 1.3.2 as follows:

1.3.1 The purpose of this method of fire tests is to evaluates the ability of the thermal barrier to prevent ignition of foam plastic insulation from a standard fire exposure for a period of 15 minutes.

1.3.2 The purpose of this method of fire tests is to also evaluates the ability of the thermal barrier to remain in place and prevent ignition of foam plastic insulation for a period of 15 minutes during a standard room/corner fire exposure.

Substantiation: These revisions make the standard more consistent with the NFPA Manual of Style.

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275- Log #1  
(1.2.1)

Final Action:

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Submitter: Bob Eugene, Underwriters Laboratories Inc.

Recommendation: Revise text to read as follows:

1.2.1 Part I measures the temperature rise on the unexposed face of the thermal barrier when it is subjected to a standard fire exposure specified in NFPA 251, ASTM E 119, or ANSI/UL 263.

Substantiation: Add ANSI approval designation to ANSI/UL 263.

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275- Log #11  
(1.2.1, 2.2, 4.6.2.2, 6.1(4), A.1.1.1, and B.1.1)

Final Action:

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Submitter: Rick Thornberry, The Code Consortium, Inc. / Rep. 3A Composites USA, Inc.

Recommendation: Delete text to read as follows:

Delete the reference to NFPA 252 in the following Sections:

1.2.1, 2.2, 4.6.2.2, 6.1(4), A.1.1.1, and B.1.1

Substantiation: NFPA 251 is in the process of being deleted as an NFPA standard .

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275- Log #2  
(2.3.3)

Final Action:

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Submitter: Bob Eugene, Underwriters Laboratories Inc.

Recommendation: Revise text to read as follows:

2.3.3 UL Publications.

Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, IL 60062-2096.

ANSI/UL 263, Standard for Fire Tests of Building Construction and Materials, 2003, reaffirmed 2007.

ANSI/UL 1040, Standard for Fire Test of Insulated Wall Construction, 1996, including revisions through September 17, 2007.

ANSI/UL 1715, Standard for Fire Test of Interior Finish Material, 1997, including revisions through April 8, 2008.

Substantiation: Add ANSI approval designation as applicable. Update referenced standard to include most recent revisions.

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275- Log #3  
(4.5.3) Final Action:

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**Submitter:** Bob Eugene, Underwriters Laboratories Inc.

**Recommendation:** Revise text to read as follows:

4.5.3 The test furnace shall be gas fired and shall be capable of generating and containing a fire exposure controlled to the time-temperature curve as specified in NFPA 251, ASTM E 119, or ANSI/UL 263 for a period of 15 minutes.

**Substantiation:** Add ANSI approval designation to ANSI/UL 263.

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275- Log #4  
(4.6.2.2) Final Action:

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**Submitter:** Bob Eugene, Underwriters Laboratories Inc.

**Recommendation:** Revise text to read as follows:

4.6.2.2 The furnace thermocouples shall be as described in NFPA 251, ASTM E 119, or ANSI/UL 263.

**Substantiation:** Add ANSI approval designation to ANSI/UL 263.

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275- Log #5  
(5.1) Final Action:

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**Submitter:** Bob Eugene, Underwriters Laboratories Inc.

**Recommendation:** Revise text to read as follows:

5.1 Test Method.

The thermal barrier and foam plastic insulation shall be tested in accordance with NFPA 286, FM 4880, ANSI/UL 1040, or ANSI/UL 1715.

**Substantiation:** Add ANSI approval designation to ANSI/UL 1040 and ANSI/UL 1715.

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275- Log #6  
(5.2.1) Final Action:

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**Submitter:** Bob Eugene, Underwriters Laboratories Inc.

**Recommendation:** Revise text to read as follows:

5.2.1 The conditions of acceptance for fire tests conducted in accordance with FM 4880, ANSI/UL 1040, or ANSI/UL 1715 shall be as specified in the fire test standard used.

**Substantiation:** Add ANSI approval designation to ANSI/UL 1040 and ANSI/UL 1715.

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275- Log #7  
(A.1.1.1) Final Action:

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**Submitter:** Bob Eugene, Underwriters Laboratories Inc.

**Recommendation:** Revise text to read as follows:

A.1.1.1 Model building codes require foam plastic insulation to be covered by a thermal barrier to reduce the possibility of ignition or delay its occurrence. The typical time specified is 15 minutes based on a fire exposure similar to that in NFPA 251, ASTM E 119, or ANSI/UL 263. The fire exposure conditions in these test methods are similar.

**Substantiation:** Add ANSI approval designation to ANSI/UL 263.

275- Log #8  
(B.1.2.2)

Final Action:

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Submitter: Bob Eugene, Underwriters Laboratories Inc.

Recommendation: Revise text to read as follows:

B.1.2.2 UL Publications. Underwriters Laboratories Inc., 333 Pflingsten Road, Northbrook, IL 60062-2096.  
ANSI/UL 263, Standard for Fire Tests of Building Construction and Materials, 2003, reaffirmed 2007.

Substantiation: Add ANSI approval designation as applicable. Update referenced standard to include most recent revisions.

**AGENDA  
ATTACHMENT =**

287- Log #CP2  
(Entire Document)

**Final Action:**

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**Submitter:** Technical Committee on Fire Tests,

**Recommendation:** Review entire document to: 1) Update any extracted material by preparing separate proposals to do so, and 2) review and update references to other organizations documents, by preparing proposal(s) as required.

**Substantiation:** To conform to the NFPA Regulations Governing Committee Projects.

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287- Log #CP1  
(3.3.3 Effective Heat of Combustion)

**Final Action:**

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**Submitter:** Technical Committee on Fire Tests,

**Recommendation:** Adopt the preferred definition from the NFPA Glossary of Terms as follows:

**3.3.3 Effective Heat of Combustion.** The measured heat release divided by the mass loss for a specified time period.  
[271, 2009]

**Substantiation:** This definition is the preferred definition from the Glossary of Terms. Changing the secondary definition to the preferred definition complies with the Glossary of Terms Project.

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**AGENDA  
ATTACHMENT J**

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288- Log #CP1  
(Entire Document)

Final Action:

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Submitter: Technical Committee on Fire Tests,

Recommendation: Review entire document to: 1) Update any extracted material by preparing separate proposals to do so, and 2) review and update references to other organizations documents, by preparing proposal(s) as required.

Substantiation: To conform to the NFPA Regulations Governing Committee Projects.

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288- Log #1  
(A.5.4.2.1)

Final Action:

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Submitter: Marcelo M. Hirschler, GBH International

Recommendation: *Replace the term "fire endurance" by the term "fire resistance" in section A.5.4.2.1.*

A.5.4.2.1 If, during the conditioning of the specimen, it appears desirable or is necessary to use accelerated drying techniques, the laboratory conducting the test is responsible for avoiding procedures that significantly alter the structural or fire ~~resistance~~ ~~endurance~~ characteristics of the floor system, test specimen, or both, from those produced as the result of drying in accordance with the procedures required in 5.4.2.1.

Substantiation: The term "fire endurance" is being replaced in all NFPA documents by the preferred term "fire resistance". The term "fire endurance classification" is being replaced by "fire resistance rating".

AGENDA  
ATTACHMENT K

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285- Log #6  
(1.3.1)

**Final Action:**

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**Submitter:** Rick Thornberry, The Code Consortium, Inc.

**Comment on Proposal No:** 285-1

**Recommendation:** 1.3.1 This standard shall be used to evaluate the fire propagation characteristics of exterior non-load-bearing wall assemblies and panels used as components of curtain wall assemblies that are constructed using combustible materials or that incorporate combustible components within the wall assemblies as specified in the following:

- (1) The ability of the wall assembly to resist flame propagation over the exterior face of the wall assembly
- (2) The ability of the wall assembly to resist vertical flame propagation within the ~~combustible~~ core components or within other combustible components from one story to the next
- (3) The ability of the wall assembly to resist vertical flame propagation over the interior surface of the wall assembly from one story to the next
- (4) The ability of the wall assembly to resist lateral flame propagation from the compartment of fire origin to adjacent compartments or spaces

**Substantiation:** “Core Component” is a newly defined term which should be used as appropriate.

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285- Log #1  
(Chapter 2 through 5)

Final Action: Accept in Principle

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Submitter: Rodney A. McPhee, Canadian Wood Council

Comment on Proposal No: 285-1

Recommendation: The proposed definition for 'core component' introduces confusion relative to other terminology used within the document. SEE COMMENTS for examples.

No wording is suggested to address these issues as the intent of the committee is not known as to when or where the concept of 'core component' applies, or not.

EDITORIAL Comments (not related to this change):

In looking at the current 4.2.14, it should be deleted or the wording changed with the reference to 'wall assemblies' changed to 'test specimens'. However, with that, it would seem that the wording would repeat what is said in 5.1.

Figure 5.2(c) and Details B, C, and D of Figure 6.1(b) need to be removed and placed in the Appendix. Alternatively, the reference to 'steel studs' in these Figures/Details should be changed to 'framing supports'. There are no requirements stated elsewhere in this standard that steel stud framing must be used with the movable test frame or test specimen. If the 'test specimen' otherwise includes combustible framing elements, this Figure could be construed as requiring an additional set of steel stud framing elements.

Substantiation: The introduction of the definition in 3.3.2 for the concept of 'core component' necessitates other changes in the document. Currently, confusion is created in light of the similar, but not exact references used in the text, including, 'core', 'core space', 'combustible core', 'combustible core material', 'combustible component' and 'core component'. This becomes critical especially when reading the provisions of Sections 9.4, 10.2.2 and 10.2.3. If it is only 'combustible materials' that can be considered 'core components', as per the definition, then use of the complex terms 'combustible

core' or 'combustible core material' would seem inappropriate.

The proposed definition of 'core component' refers to 'outer skins' and 'facings'. Neither of these concepts are defined in the document. Figure 6.1(b) refers to 'facings' but also refers to exterior 'face' (veneer in new details). There is no other reference in the document to 'outer skin' and, as such, it is impossible to understand what the difference is between a facing and an outer skin. Also, based on this proposed definition, it is unclear whether the references to 'exterior face' in 10.2.1 and 10.2.3.2 should instead refer to 'exterior facing'.

For further clarification, Figure 5.2(c) and Details B, C, and D of Figure 6.1(b) need to be removed and placed in the Appendix. Alternatively, the reference to 'steel studs' in the Figure/Details should be changed to 'framing supports'. There are no requirements stated elsewhere in this standard that steel stud framing must be used with the movable test frame. If the 'test specimen' otherwise includes combustible framing elements, this Figure could be construed as requiring an additional set of steel stud framing elements.

Committee Meeting Action: Accept in Principle

Remove the definition of Core Component

285- Log #2  
(Chapter 6)

Final Action:

Submitter: Rodney A. McPhee, Canadian Wood Council

Comment on Proposal No: 285-2

Recommendation: The proposed definition for 'core component' introduces confusion relative to other terminology used within the document and Figures/Details. SEE COMMENTS for examples.

No wording is suggested to address these issues, as the intent of the committee is not known as to when or where the concept of 'core component' applies, or not.

In the proposed new Details B to I in Figure 6.1(b), these need to be removed and placed in the Appendix.

Alternatively, the reference to 'steel studs' in these Figures/Details should be changed to 'framing supports'. There are no requirements stated elsewhere in this standard that steel stud framing must be used with the movable test frame or test specimen. If the 'test specimen' otherwise includes combustible framing elements, this Figure could be construed as requiring an additional set of steel stud framing elements.

(The issue of referring only to steel studs also implicates Figure 5.2(c), which should also be moved or revised, but presumably that would be a matter of new business, unless it was considered editorial.)

Substantiation: The inclusion of the new definition of 'core component' raises a number of concerns regarding the specificity of the references throughout the proposed new text and figures. There are numerous places in the new text and Figures where reference is being made specifically to combustible 'insulation'. It is possible that a combustible framing element may be another or, the only, combustible core component in the test specimen. The text and diagrams should be revised to address this possibility.

In new proposed Details, the reference to 'combustible core' and/or 'combustible material' should be changed to refer to 'combustible core component' or just 'core component'

There are a number of places in the new Figures where reference is made specifically to steel studs. It is possible that a combustible framing element may be used instead of the steel stud, i.e., Detail E, Detail F. The figures should be updated (or new ones added) to address this possibility.

285- Log #7  
(6.1)

Final Action:

Submitter: Rick Thornberry, The Code Consortium, Inc.

Comment on Proposal No: 285-2

Recommendation: 6.1\* Temperature Measurements.

(1) Exterior wall surface of the test specimen as shown in Figure 6.1(a)

(2) Core of the exterior wall panel of the test specimen, where applicable, as shown in Figure 6.1(a) and Figure 6.1(b) Details A and B in the cavity air space or the insulation or both as shown in Figure 6.1(a) and Figure 6.1(b). The thermocouple layouts in Figure 6.1(b) Detail A through Detail I shall be used as appropriate for the test specimen construction being tested.

(3) Cavity air space within the test specimen, where applicable, as shown in Figure 6.1(a) and Figure 6.1(b), Detail C and Details E through I.

(4) Wall cavity insulation and stud cavity insulation, where applicable, as shown in Figure 6.1(a) and Figure 6.1(b), Details C through I

(5) ~~(3)~~ Interior wall surface of the test specimen as shown in Figure 6.1(c)

(6) ~~(4)~~ Below the first-story test room ceiling as shown in Figure 6.1(d)

(7) For any other locations refer to Figures 6.1(a) and Figure 6.1(b) Details A through I, as applicable, for the test specimen construction being tested.

Substantiation: The purpose of these proposed revisions is to provide additional detail to the user of the test method on where to take appropriate temperature measurements based on the construction of the test specimen being tested. The new wording identifies the key components of the exterior wall construction where thermocouples may be required by Figure 6.1(a) and the applicable Detail shown in Figure 6.1(b). A new Item (7) is provided as a catch-all to direct the user to the specific Figures to identify any other thermocouples that may be required based on the construction details for the test specimen. This should make this standard more user friendly and easier to determine where thermocouples are to be provided in order to take the required temperature measurements.

285- Log #4  
(Figure 6.1(b))

Final Action:

Submitter: Jesse J. Beitel, Hughes Associates, Inc.

Comment on Proposal No: 285-2

Recommendation: Revise Figures 6.1(b) Details A through I and new Figure 6.1(b) Detail J

\*\*\*Insert Figures 6.1(b) and Figure 6.1(b)\*\*\*

Substantiation: Provide clarity and revise Figures to address editorial items and encompass new types of wall systems. Add new Figure to address new types of wall systems

285- Log #8  
(7.1)

Final Action:

Submitter: Rick Thornberry, The Code Consortium, Inc.

Comment on Proposal No: 285-3

Recommendation: 7.1 Calibration Test Procedure. A calibration test shall be performed in accordance with this Chapter to determine the gas flow rates of the gas burners to be used in the fire test procedure prescribed in Chapter 8.

Substantiation: This will provide charging language for the application of Chapter 7 for performing the calibration test.

285- Log #9  
(7.1.19 and 7.1.20 (New) )

Final Action:

Submitter: Rick Thornberry, The Code Consortium, Inc.

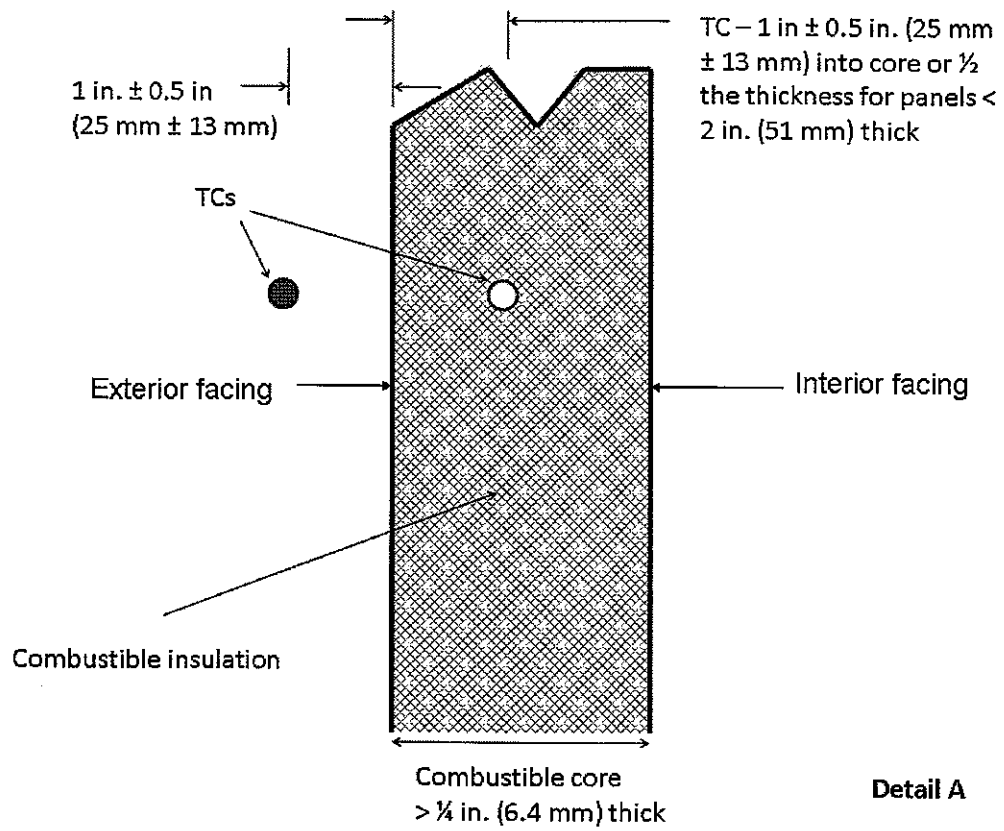
Comment on Proposal No: 285-3

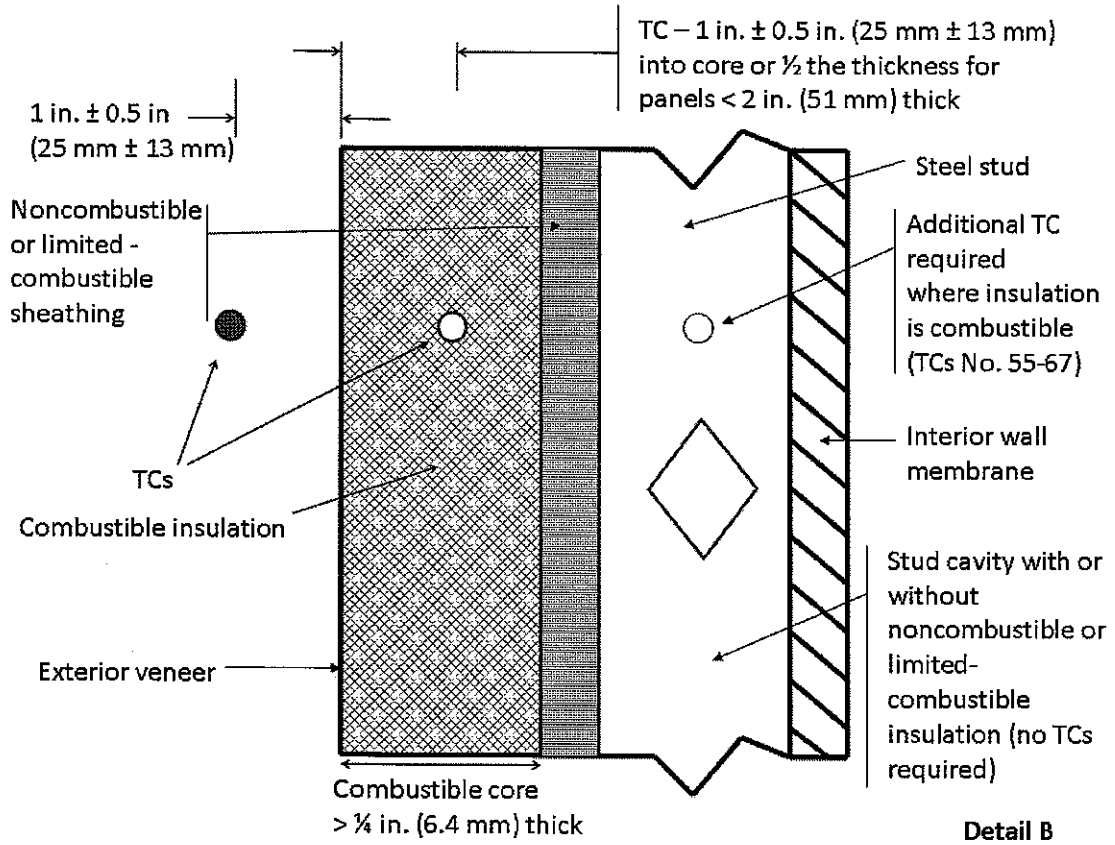
Recommendation: NOTE: Underlining has been omitted for clarity.

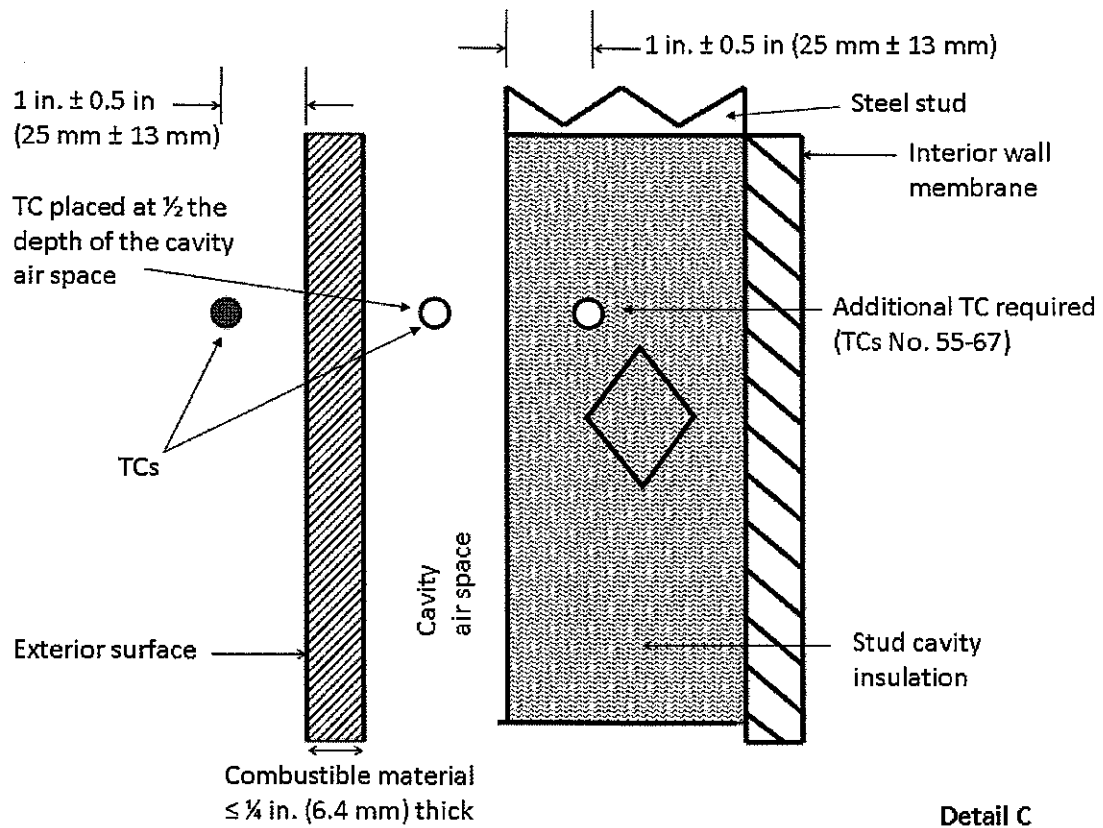
7.1.19 During the initial 5 minute burn period for the window burner between 6 and 9 minutes after the start of a successful calibration test, the average height of the fluctuating window burner flame shall be measured at the approximate midpoint of the burner slot and at points approximately 6 in. (153 mm) from each end of the burner slot. The measurements shall be recorded. While the measurements are being taken, a video recording shall be made of the window burner flame for the purpose of using the video recording as a reference when the window burner is required to be recalibrated by 7.1.20.

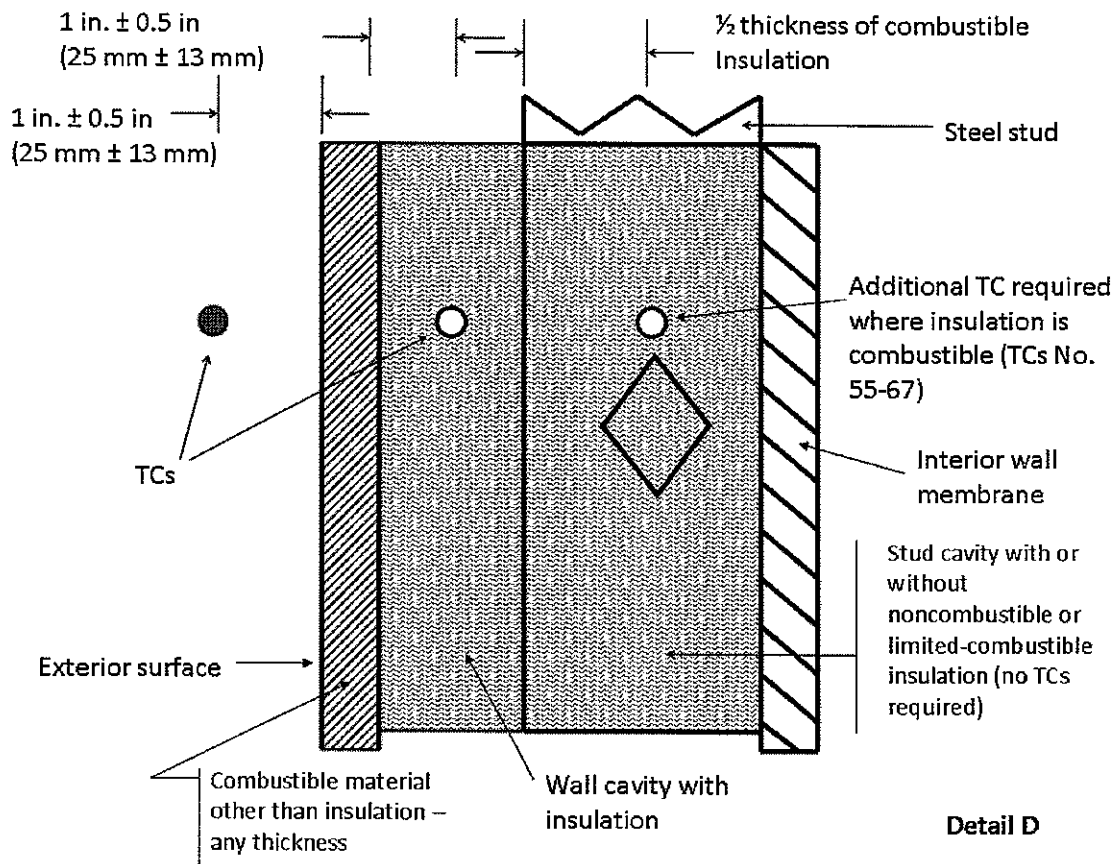
7.1.20 When the ceramic blanket covering the window burner is replaced or the burner output has been adversely affected by the accumulation of burning or melting debris or the impact of falling debris on the blanket during the fire test, the window burner flame height shall be adjusted after the ceramic blanket has been replaced or cleared of any debris so that the flame height and distribution of the flame are consistent with the measurements and observations made as specified in 7.1.19 for the initial 5 minute burn period for the window burner (between 5 minutes and 10 minutes after the start of the fire test.)

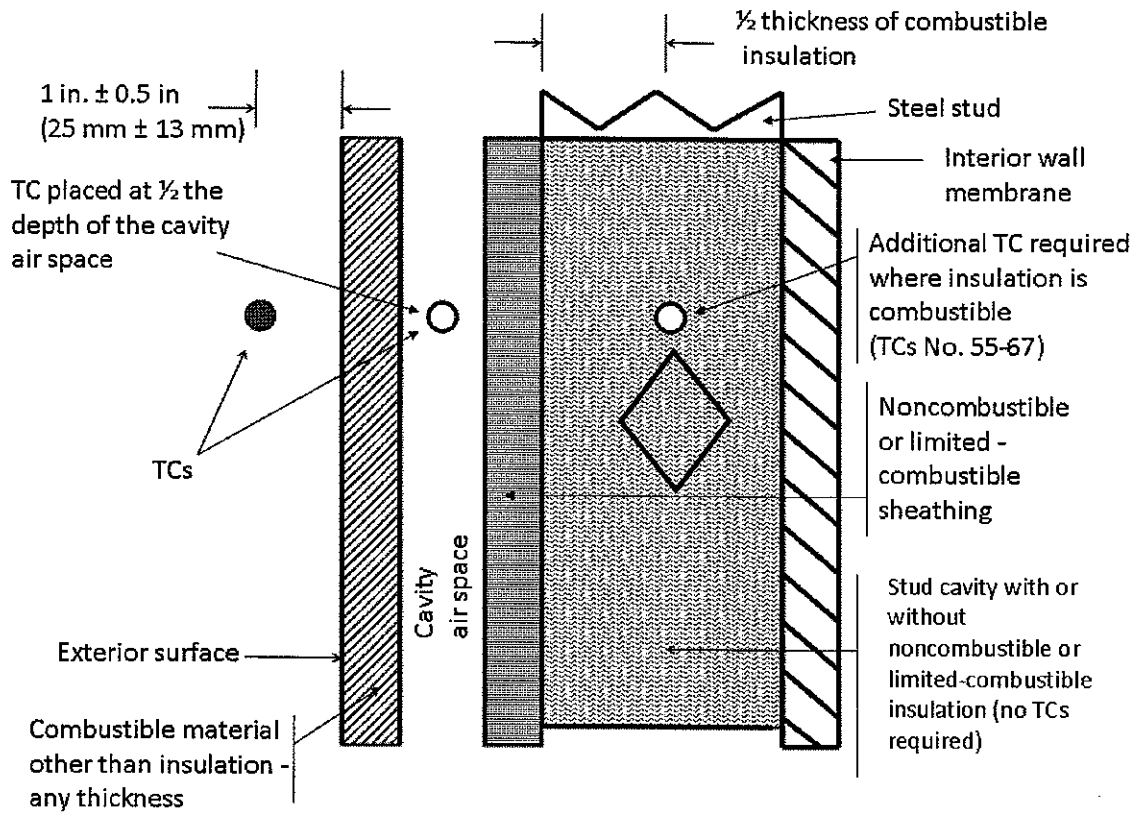
Substantiation: It has been my experience in witnessing and observing tests conducted in accordance with NFPA 285 that it is not uncommon for melting or burning debris to fall onto and directly impact the window burner during the fire test. Obviously, this can affect the distribution and height of the flame during the test but, more importantly, if the burner is not adjusted and the ceramic blanket covering the window burner is not cleaned off, replaced, or otherwise adjusted, then the next test may not reproduce the calibration test required by Chapter 7. At least this proposed Public Comment provides a means for requiring that the test lab make an effort to properly adjust the flame height and distribution of the window burner based on the first 5 minute burn period for the window burner which occurs between 5 and 10 minutes into the fire test. The burner height and flame distribution is not only sensitive to the accumulation of melting or burning debris on the ceramic blanket, but also to the manner in which the ceramic blanket is attached to cover the window burner pipe. Therefore, if the ceramic blanket itself is simply replaced, the readjustment of the flame height and distribution should also be conducted to assure appropriate reproducibility of the calibration test.



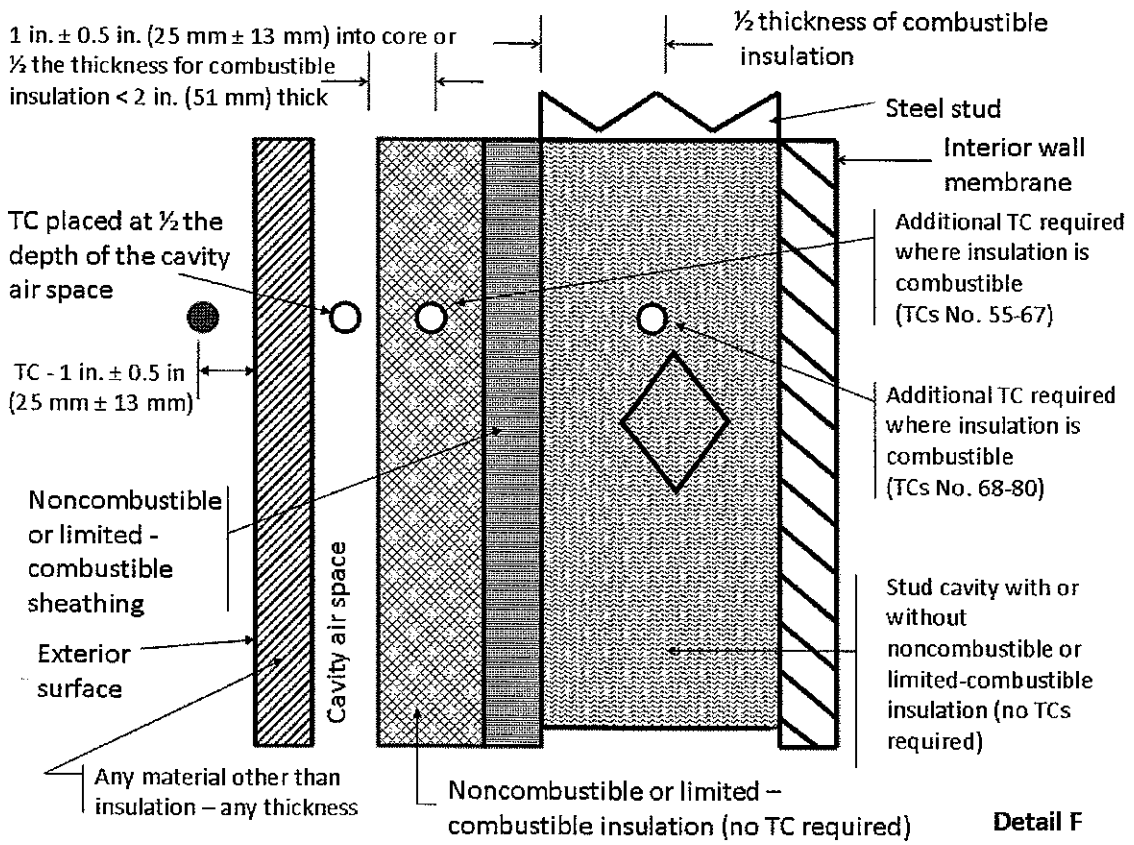


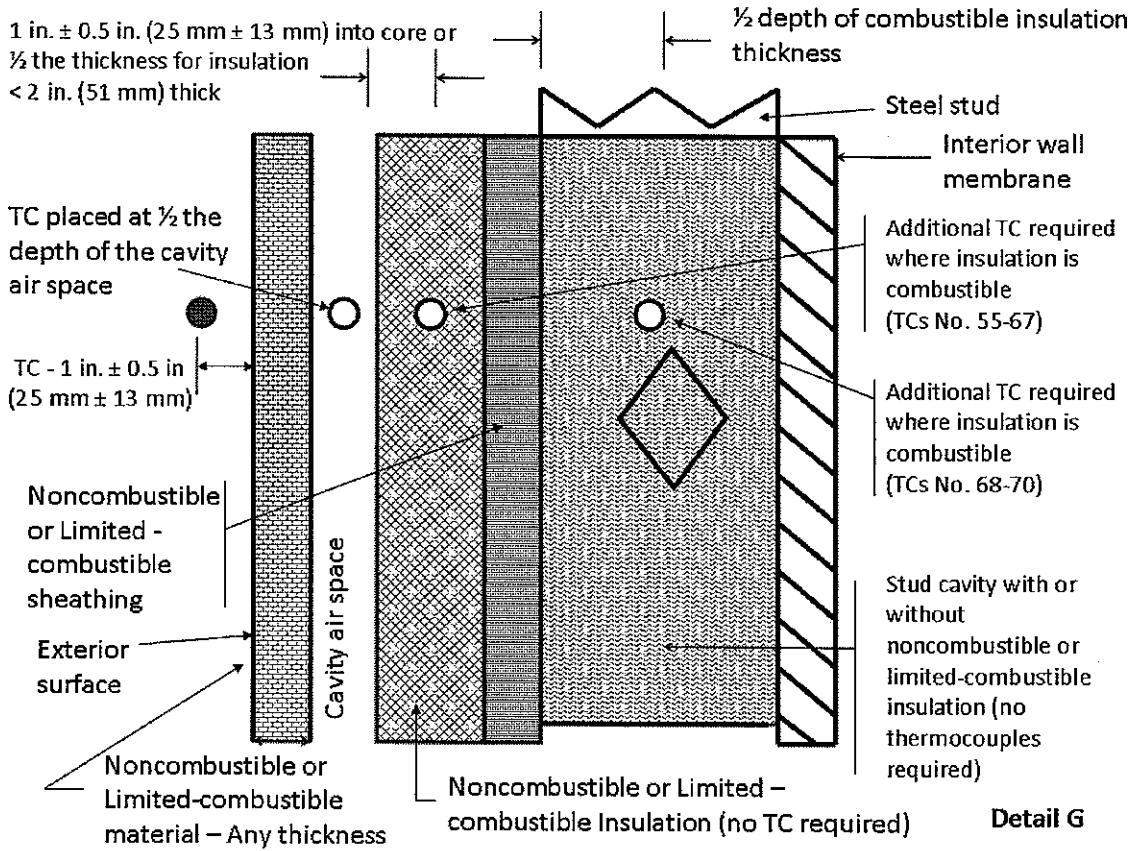


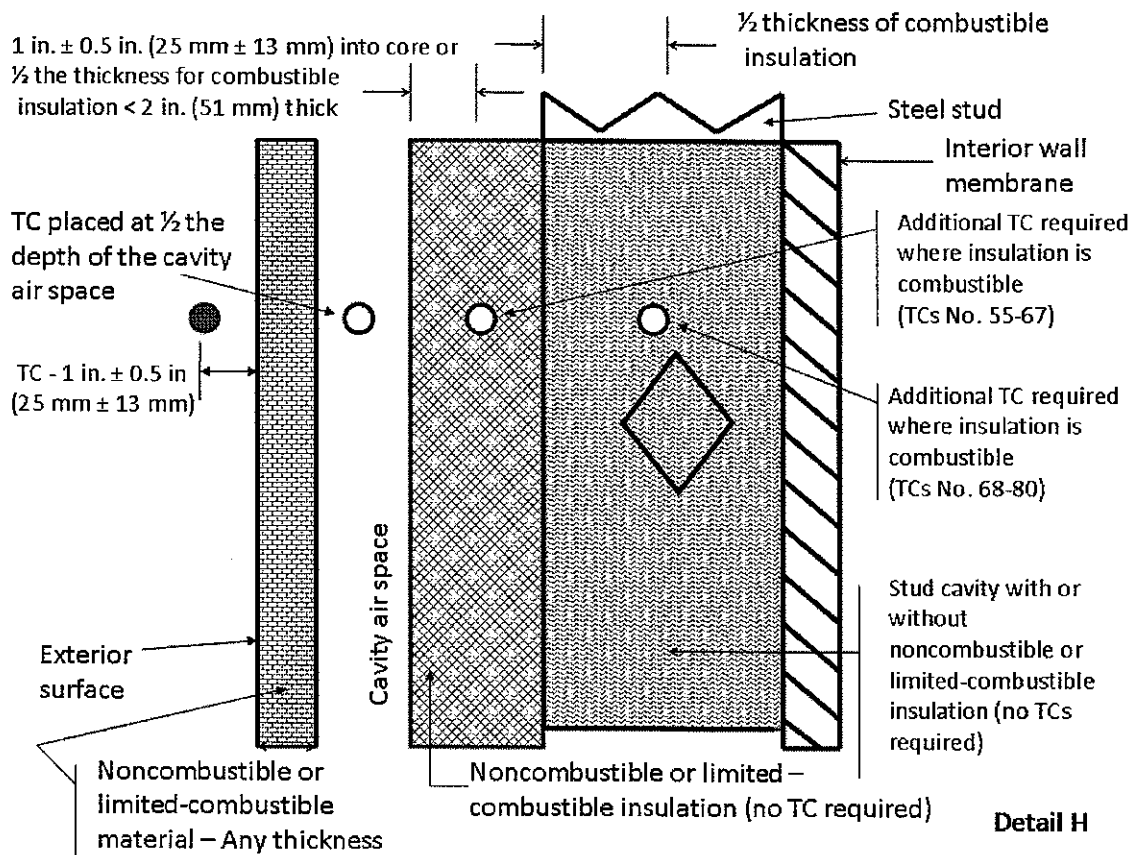


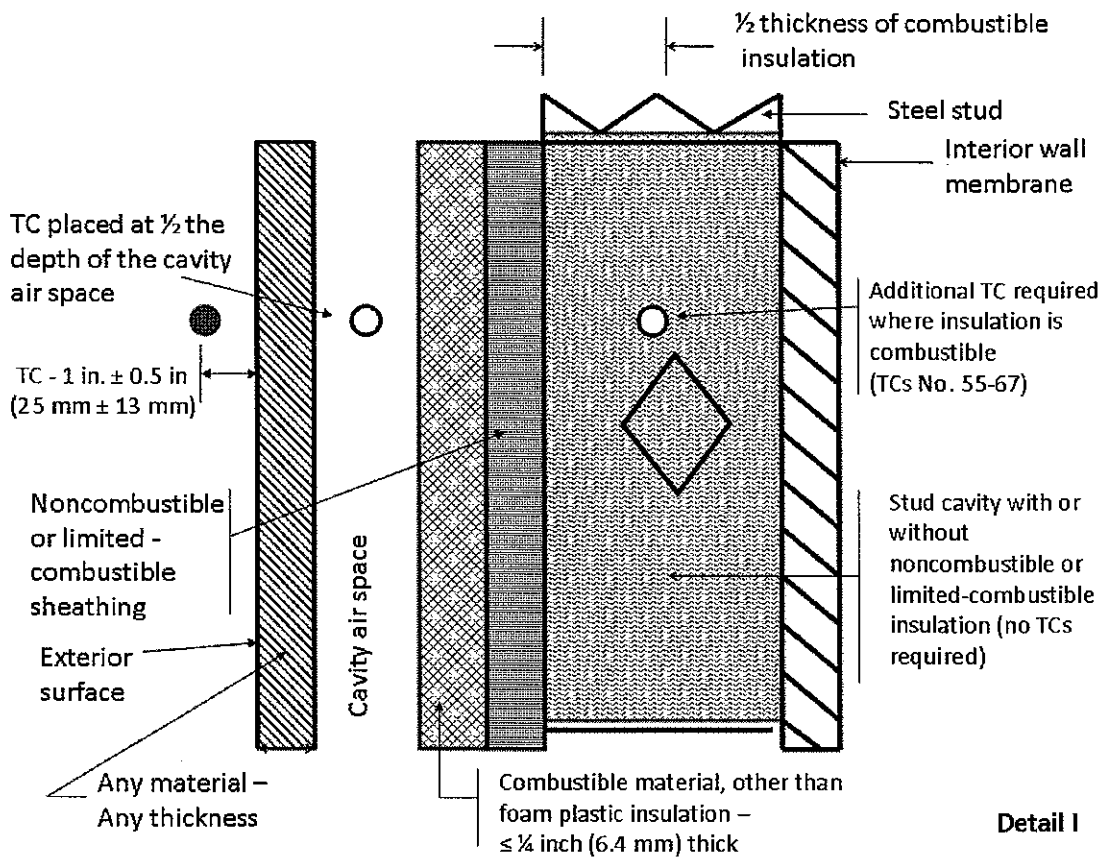


Detail E

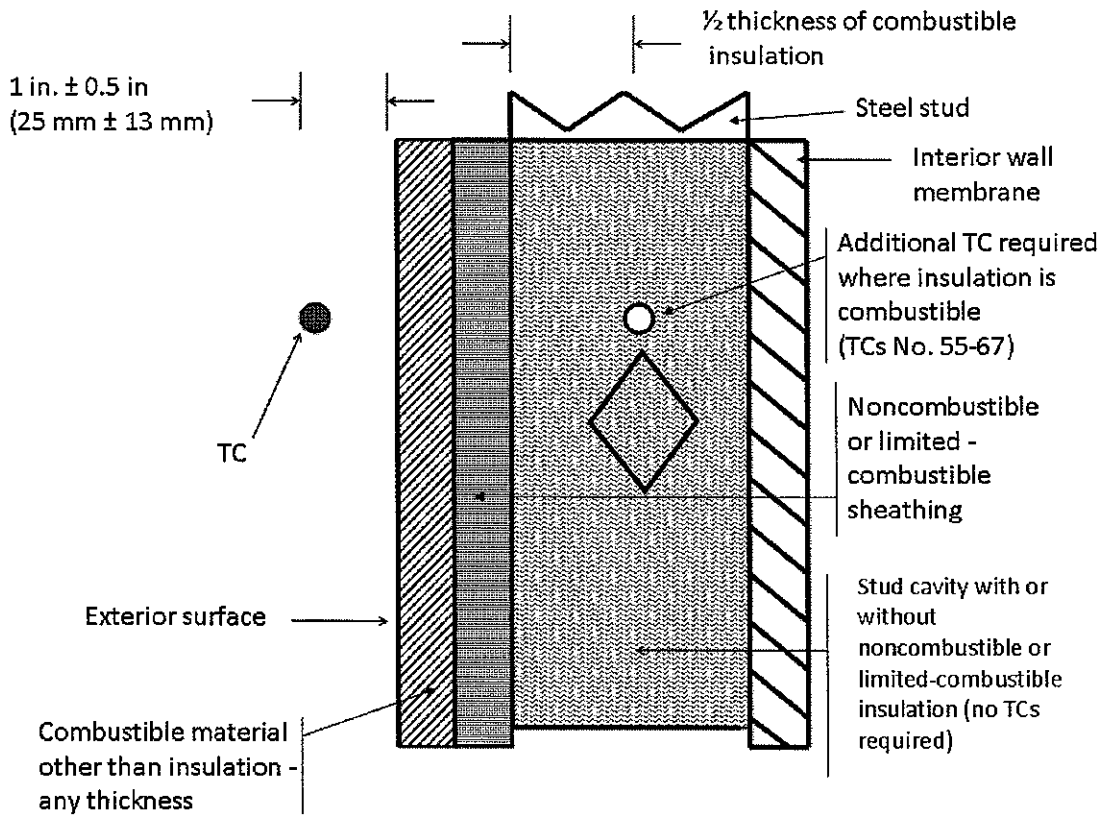








**Detail I**



**Detail J**

285- Log #3  
(Chapter 10)

Final Action:

Submitter: Rodney A. McPhee, Canadian Wood Council

Comment on Proposal No: 285-4

**Recommendation:** The proposed definition for 'core component' introduces confusion relative to other terminology used within the document and Figures/Details. SEE COMMENTS for examples.

No wording changes are suggested to address these issues, as the intent of the committee is not known as to when or where the concept of 'core component' applies, or not.

In the proposed new Details D and I in Figure 6.1(b), the details conflict in some manner with the new text proposed in Chapter 10 (10.2.2 and 10.2.3). These inconsistencies or gray areas should be corrected/clarified.

**Substantiation:** The inclusion of the new definition of 'core component' raises a number of concerns regarding the specificity of the references throughout the new text. With such, the reference to 'insulation' proposed to be added to the title of 10.2.2 and the more specific reference to 'combustible insulation' in the introductory paragraph would seem redundant. Also, adding the specific reference to 'combustible insulation' seems to suggest that the previous version of the test method did not limit temperature increases in noncombustible or limited combustible insulation used in such cavities, i.e., those shown in current Details C and D.

With the more specific reference to 'combustible insulation' in the introductory paragraphs of both 10.2.2 and 10.2.3, in new Detail D, if the insulation in the cavity is noncombustible or limited combustible, it is not totally clear that the thermocouple in the 'wall cavity' would still be required and that the temperature inside the NC/LC insulation is still limited. This needs to be clarified in the wording of (3) in both 10.2.2 and 10.2.3. The reference to 'Any material/any thickness' in Detail I is not consistent with the text of (4) in both 10.2.2 and 10.2.3.

285- Log #10  
(10.2.2 and 10.2.3)

Final Action:

Submitter: Rick Thornberry, The Code Consortium, Inc.

Comment on Proposal No: 285-4

**Recommendation:** 10.2.2 Vertical Flame Propagation: Core Components and Insulation.

Flame propagation shall not occur vertically through the core components ~~and~~ or the combustible insulation installed within the test specimen as determined in accordance with the following:

(2)(b) Temperatures in the wall cavity and stud cavity insulation. . . immediately after the start of the fire test by Thermocouples Nos. 55 through 65 and 68 through 78<sub>x</sub> as applicable.

(3) For test specimens. . . immediately after the start of the fire test by Thermocouples Nos. 28<sub>x</sub> ~~and~~ 31 through 40 and 55 through 65. . .

(4) For test specimens constructed ~~on~~ of noncombustible or limited-combustible exterior wall panels. . .

(4)(b) Temperatures in the wall cavity and stud cavity insulation. . . immediately after the start of the fire test by Thermocouples Nos. 55 through 65 and 68 through 78<sub>x</sub> as applicable.

**10.2.3 Horizontal Flame Propagation: Core Components and Insulation.**

(2)(b) Temperatures in the wall cavity and stud cavity insulation. . . immediately after the start of the fire test by Thermocouples Nos. 66 and 67 and 79 and 80<sub>x</sub> as applicable.

(3) For test specimens. . . immediately after the start of the fire test by Thermocouples Nos. 18 and 19 and 66 and 67<sub>x</sub> as applicable, as shown in figure 6.1(a) and Figure 6.1(b), Detail D.

(4) For test specimens constructed ~~on~~ of noncombustible or limited-combustible exterior wall panels. . .

(4)(b) Temperatures in the wall cavity and stud cavity insulation. . . immediately after the start of the fire test by Thermocouples Nos. 66 and 67 and 70 and 80<sub>x</sub> as applicable.

**Substantiation:** Editorial clarifications/corrections.

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285- Log #5  
(B.1.2.2 and B.1.2.3)

Final Action:

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Submitter: Marcelo M. Hirschler, GBH International

Comment on Proposal No: 285-5

Recommendation: Revise text as follows:

B.1.2.2 ICC Publications. International Code Council, 5203 Leesburg Pike, Suite 600, Falls Church, VA 22041.

~~B.1.2.2 ICBO Publications. International Conference of Building Officials, 5360 Workman Mill Road, Whittier, CA 90601-2298~~

UBC Standard 17-6, Method of Test for the Evaluation of Flammability Characteristics of Exterior, Nonload-bearing Wall Panel Assemblies Using Foam Plastic Insulation, 1988

UBC Standard 26-4, Method of Test for the Evaluation of Flammability Characteristics of Exterior, Nonload-bearing Wall Panel Assemblies Using Foam Plastic Insulation, 1997

UBC Standard 26-9, Method of Test for the Evaluation of Flammability Characteristics of Exterior, Nonload-bearing Wall Assemblies Containing Combustible Components Using the Intermediate-scale, Multistory Test Apparatus, 1997  
Uniform Building Code, 1997.

~~B.1.2.3 ICC Publications. International Code Council, 5203 Leesburg Pike, Suite 600, Falls Church, VA 22041.~~

~~Uniform Building Code, 1997.~~

~~Renumber B.1.2.4 as B.1.2.3.~~

**Substantiation:** B.1.2.2 and B.1.2.3 need to be combined. ICBO is now a part of ICC and is no longer a separate entity. ICC sells all ICBO documents. All of the UBC tests are contained within and are a part of the UBC 1997 code.

**AGENDA  
ATTACHMENT L**

## NFPA Fire Test Documents – Revision Cycles (7/10)

Document	Title	Current Edition	Revision Cycle	Revision Year	Notes (Rev Cycle)
276	Fire Test for Determining the Heat Release Rate of Combustible Building Assemblies or Above-Deck Roofing Components	Proposed	Fall 2009	2010	SC soliciting public input (Decision # 07-3-26) March 2007 - SC approved request to develop standard July 2007 Entered F2009 cycle - NITMAM 11/09
251	Fire Endurance of Building Construction and Materials	2006	Fall 2010	2011	Last cycle A2005 (5) Cycle changed from A2010 August 2008 - Proposed for withdrawal
253	Critical Radiant Flux of floor covering Systems Using a Radiant Heat Energy Source	2006	Fall 2010	2011	Last cycle A2005 (5) Cycle changed from A2010 August 2008
262	Flame Travel and Smoke of Wires and Cables for use in Air-Handling Spaces	2007	Fall 2010	2011	Last cycle A06 (4) Cycle changed from A2010 August 2008
265	Evaluating room fire Growth Contribution of Textile Coverings on full Height Panels and Walls (Textile Room-Corner)	2007	Fall 2010	2011	Last cycle A2006 (4) Cycle changed from A2010 August 2008
286	Evaluating contribution of Wall and Ceiling Interior Finish to Room Fire Growth	2006	Fall 2010	2011	Last cycle A2005 (5) Cycle changed from A2010 August 2008
285	Evaluation of Flammability Characteristics of Exterior Non-Load-Bearing Wall Assemblies containing Combustible Components Using the Intermediate-Scale, Multistory Test Apparatus	2006	Fall 2011	2012	Last cycle A2005 (5) Cycle changed from A2010 August 2008 - Request to withdraw from F2010 and submit ROC next available cycle 4/10. Cycle changed to F2011 7/10

Document	Title	Current Edition	Revision Cycle	Revision Year	Notes (Rev Cycle)
252	Fire Tests of Door Assemblies	2008	Fall 2011	2012	Last cycle A2007 (4) - Cycle changed from A2011 to F2011 8/09
257	Window and Glass Block Assemblies	2007	Fall 2011	2012	Last cycle A2006 (5) - Cycle changed from A2011 to F2011 8/09
268	Determining Ignitability of Exterior Wall Assemblies using a Radiant heat Energy Source (Exterior Walls – Radiant Heat Test)	2007	Fall 2011	2012	Last cycle A2006 (5) - Cycle changed from A2011 to F2011 8/09
269	Toxic Potency Data for Modeling	2007	Fall 2011	2012	Last cycle A2006. (5) - Cycle changed from A2011 to F2011 8/09
275	Evaluation of Thermal Barriers Used Over Foam Plastic	2009	Fall 2011	2012	Last cycle A2008 (3) - Cycle changed from A2011 to F2011 8/09
287	Measurement of Flammability of Materials in Cleanrooms Using a Fire Propagation Apparatus (FPA)	2007	Fall 2011	2012	Last cycle A06 (5) - Cycle changed from A2011 to F2011 8/09
288	Floor Fire Door Assemblies Installed Horizontally in Fire Resistance-Rated Floor Systems	2007	Fall 2011	2012	Last cycle A06 (5) - Cycle changed from A2011 to F2011 8/09
271	Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter	2009	Fall 2011	2012	Last cycle F2008 (3)
259	Potential Heat of Building Materials	2008	Annual 2012	2013	Last cycle A2007 (5) - Request to slip to F2012 4/10
270	Smoke Obscuration Using a conical Radiant Source in a Single Closed Chamber	2008	Annual 2012	2013	Last cycle A2007 (5) - Request to slip to F2012 4/10
289	Room Fire Growth Contribution of Individual Fuel Packages	2009	Annual 2012	2013	Last cycle A2008 (4) - Request to slip to F2012 4/10

Document	Title	Current Edition	Revision Cycle	Revision Year	Notes (Rev Cycle)
260	Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture	2009	Annual 2013	2014	Last cycle A2008 (5) - Request to accelerate to F2012 4/10
261	Determining Resistance of Mock-Up Upholstered Furniture material Assemblies to Ignition by Smoldering Cigarettes	2009	Annual 2013	2014	Last cycle A2008 (5) - Request to accelerate to F2012 4/10
274	Method to Evaluate Fire Performance Characteristics of Pipe Insulation	2009	Annual 2013	2014	Last cycle A2008 (5) - Request to accelerate to F2012 4/10
290	Passive Protection Materials for Use on LP-Gas Containers	2009	Annual 2013	2014	Last cycle A2008 (5) - Request to accelerate to F2012 4/10
705	Field Flame Test for Textiles and Films	2009	Annual 2013	2014	Last cycle A2008 (5) - Request to accelerate to F2012 4/10
701	Flame Propagation of Textiles and Films	2010	Fall 2014	2015	Last cycle F2009 (5)
255	Surface Burning Characteristics of Building Materials (Tunnel Test)	Withdrawn	N/A	N/A	Withdrawn F2009
256	Roof Coverings	Withdrawn	N/A		Withdrawn A2008
258	Smoke Generation of Solid Materials	Withdrawn	N/A		Withdrawn A2006
272	Heat and Visible Smoke Release Rates for Upholstered Furniture Components or Composites and Mattresses Using an Oxygen Consumption Calorimeter	Withdrawn	N/A		Withdrawn A2007

AGENDA  
ATTACHMENT M

# 2012 ANNUAL REVISION CYCLE

	PROCESS STAGE	PROCESS STEP	DATES FOR TC	DATES FOR TCC
1	PRELIMINARY	1.0 Notification of intent to enter cycle	7/9/10	7/9/10
2	REPORT ON PROPOSALS (ROP)	2.1 Proposal closing date	11/23/10*	11/23/10*
		2.2 Final date for ROP meeting	2/25/11	2/4/11
		2.3 Final date for mailing TC ballots	3/18/11	2/18/11
		2.4 Receipt of (TC) ballots by staff liaison	4/22/11	3/11/11
		2.5 Receipt of TC recirculation ballots	5/6/11	3/18/11
		2.6 Final date for TCC meeting		4/15/11
		2.7 Final date for mailing TCC ballots		4/22/11
		2.8 Receipt of TCC ballots		5/13/11
		2.9 Receipt of TCC recirculation ballots		5/20/11
		2.10 Final copy (w/ ballot statements) to Secretary, Standards Council	5/13/11	5/27/11
		2.11 Completion of Reports	5/20/11	6/3/11
		2.12 ROP Published and Posted	6/24/11	6/24/11
3	REPORT ON COMMENTS (ROC)	3.1 Comment closing date	8/30/11	8/30/11
		3.2 Final date for ROC meeting	11/4/11	10/7/11
		3.3 Final date for mailing TC ballots	11/18/11	10/21/11
		3.4 Receipt of (TC) ballots by staff liaison	12/2/11	11/11/11
		3.5 Receipt of TC recirculation ballots	12/9/11	11/18/11
		3.6 Final date for TCC meeting		12/16/11
		3.7 Final date for mailing TCC ballots		12/23/11
		3.8 Receipt of TCC ballots		1/13/12
		3.9 Receipt of TCC recirculation ballots		1/20/12
		3.10 Final copy (w/ ballot statements) to Secretary, Standards Council	12/23/11	1/27/12
		3.11 Completion of Reports	1/13/12	2/3/12
		3.12 ROC Published and Posted	2/24/12	2/24/12
4	TECH SESSION PREPARATION & ISSUANCE OF CONSENT DOCUMENTS	4.1 Notice of Intent to Make a Motion (NITMAM) Closing Date	4/6/12	4/6/12
		4.2 Posting of Filed NITMAM	5/4/12	5/4/12
		4.3 Council Issuance Date for Consent Documents	5/29/12	5/29/12
		4.4 Appeal Closing Date for Consent Documents	6/13/12	6/13/12
5	TECHNICAL SESSION	5.0 Association Meeting for Documents with Certified Amending Motions	6/4-7/12	6/4-7/12
6	APPEALS & ISSUANCE OF DOCUMENTS w/CAMS	6.1 Appeal closing date for Documents with Certified Amending Motions	6/27/12	6/27/12
		6.2 Council issuance for Documents with Certified Amending Motions	8/9/12	8/9/12

\* Proposal Closing Dates may vary according to documents and schedules for Revision Cycles may change. Please check the NFPA website ([www.nfpa.org](http://www.nfpa.org)) for the most up-to-date information on proposal closing dates and schedules.

# 2011 FALL REVISION CYCLE

	PROCESS STAGE	PROCESS STEP	DATES FOR TC	DATES FOR TCC
1	PRELIMINARY	1.0 Notification of intent to enter cycle	1/8/10	1/8/10
2	REPORT ON PROPOSALS (ROP)	2.1 Proposal closing date	5/28/10*	5/28/10*
		2.2 Final date for ROP meeting	8/27/10	8/6/10
		2.3 Final date for mailing TC ballots	9/17/10	8/20/10
		2.4 Receipt of (TC) ballots by staff liaison	10/22/10	9/10/10
		2.5 Receipt of TC recirculation ballots	11/5/10	9/17/10
		2.6 Final date for TCC meeting		10/15/10
		2.7 Final date for mailing TCC ballots		10/22/10
		2.8 Receipt of TCC ballots		11/12/10
		2.9 Receipt of TCC recirculation ballots		11/19/10
		2.10 Final copy (w/ ballot statements) to Secretary, Standards Council	11/12/10	11/29/10
		2.11 Completion of Reports	11/19/10	12/3/10
		2.12 ROP Published and Posted	12/22/10	12/22/10
3	REPORT ON COMMENTS (ROC)	3.1 Comment closing date	3/4/11	3/4/11
		3.2 Final date for ROC meeting	5/6/11	4/8/11
		3.3 Final date for mailing TC ballots	5/20/11	4/22/11
		3.4 Receipt of (TC) ballots by staff liaison	6/3/11	5/13/11
		3.5 Receipt of TC recirculation ballots	6/10/11	5/20/11
		3.6 Final date for TCC meeting		6/17/11
		3.7 Final date for mailing TCC ballots		6/24/11
		3.8 Receipt of TCC ballots		7/15/11
		3.9 Receipt of TCC recirculation ballots		7/22/11
		3.10 Final copy (w/ ballot statements) to Secretary, Standards Council	6/24/11	7/29/11
		3.11 Completion of Reports	7/15/11	8/5/11
		3.12 ROC Published and Posted	8/26/11	8/26/11
4	TECH SESSION PREPARATION & ISSUANCE OF CONSENT DOCUMENTS	4.1 Notice of Intent to Make a Motion (NITMAM) Closing Date	10/21/11	10/21/11
		4.2 Posting of Filed NITMAM	11/18/11	11/18/11
		4.3 Standards Council Issuance Date for Consent Documents	12/13/11	12/13/11
		4.4 Appeal Closing Date for Consent Documents	12/28/11	12/28/11
5	TECHNICAL SESSION	5.0 Association Meeting for Documents with Certified Amending Motions	6/3-7/12	6/3-7/12
6	APPEALS & ISSUANCE OF DOCUMENTS W/ CAMS	6.1 Appeal closing date for Documents with Certified Amending Motions	6/27/12	6/27/12
		6.2 Council issuance for Documents with Certified Amending Motions	8/9/12	8/9/12

\* Proposal Closing Dates may vary according to documents and schedules for Revision Cycles may change. Please check the NFPA website ([www.nfpa.org](http://www.nfpa.org)) for the most up-to-date information on proposal closing dates and schedules.