NFCA 2024 Wrap UP

Bill McHugh, NFCA Executive Director Rich Walke, CTI, Consultant to the NFCA

NFCA FREE Webinar Series Learn – Network – Grow





December 17, 2024

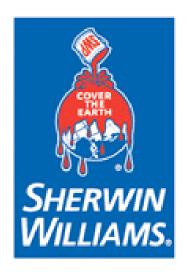
Thanks Members...

NFCA GOLD Sponsors

NFCA SILVER Sponsors







Thanks Members...

- NFCA Contractors
- NFCA Associates
- NFCA Manufacturers

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NFCA Committees – Thanks....

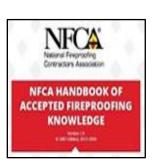
- Program
 - Conferences, Webinars
- Accreditation
 - NFCA CAP
 - •UL QFCP
- Technical
 - Standards
 - Code
 - Education

- Membership/Marketing
- Safety
- Canada
- Manufacturer
- Task Groups
 - Attachments
 - Research, Code Proposal
 - Finishes
 - Working towards consensus
 - Project Management

What Does NFCA Provide?



- Fireproofing Education & Exams
 - World-Class SFRM & IFRM Fireproofing Instruction
- NFCA Contractor Accreditation Program for IFRM & SFRM
 - Educated fireproofing Companies UL QFCP
- Week of Learning Educational Conference
 - Network with top Fireproofing Contractors, Manufacturers, Associates
 - A forum for suppliers and contractors to learn from one another
- NFCA 100-400 Standards for quality and life safety
- Technical expertise, Standards and Code development
- NFCA Handbook of Fireproofing Knowledge
- NFCA Website to find Fireproofing Leaders www.NFCA-online.org



What does NFCA Do?

- NFCA @ ICC Codes...
 - 2021/2024 SFRM/IFRM Proposals...
- NFCA @ ASTM Task Groups Fireproofing
- NFCA @ NFPA Fire Protection Features
- NFCA @ AISC, AISI, CSI/CSC
- NFCA @ National Codes, Canada NBCC, NFCC
- NFCA @ American Institute of Steel Construction (AISC)
- Industry Articles
 - Thermal Barriers, Patching, more...
- NFCA @ SFPE/ASCE Meetings
- NFCA requests IAS add NFCA Fireproofing Exam
- NFCA Committee ACTIONS
- NFCA International















NFCA Educational Events



- NFCA Free Webinar Series 12 in 2024
 - Fire-Resistance
 - Codes
 - Standards
 - Worldwide Standards
 - More...
- Members Only Recordings FREE
- FREE Access to Presentation Slides Specifiers, Code / Fire Officials
- Archived @ www.NFCA-Online.org
- NFCA Fire-Resistance Webinar...



NFCA Educational Events - Webinars

SHORT VIDEO

LONG VIDEO The NFCA represents fireproofing contractors and manufacturers, equipment suppliers, inspection agencies, who install, inspect or provide passive fire protection for structures as required by

Member fireproofing contractors install Sprayed Fire-Resistive Material (SFRM), Intumescent Fire-Resistive Material (IFRM)

products to complex listings an manufacturers instructions.

The NFCA works to improve the proper use and application of fireproofing products through development of standard practices and educational programs for the industry.

Learn more about NFCA

BUILDING CODES & FIRE TESTING - The Building Codes require horizonatl fire-resistance-rated assemblies to be full-scale tested (12' x 14', approx 3m x 4m) with a load applied where a load is expected. Why? Small-scale horizontal fire testing does not allow for a load to cause deflection of the assembly. Small-scale fire testing for horizontal assemblies and without a load applied does not reflect real world conditions and is not safe, unless there is NEVER going to be a load applied in the field. Learn More

FREE FIREPROOFING EDUCATION- NFCA's Fire-Resistance FIREPROOFING WEBINAR RECORDING- Get a detailed look at structural fireproofing and the acceptance critiera needed for approvals and substitution requests. Check out this program on fire test standards ASTM E119, UL 263 and CAN/ULC-S-101. Testing products - in a full scale furnace with loads applied where applicable - proves fire-resistance. FREE NFCA Fire-Resistance Education PPT Slides

Feb. 9, 2024 - Want to know what's going on in Fireproofing Industry that affects your business? Be IN THE KNOW by attending the NFCA Week of Learning '24? Book your hotel room today! Group rates expire Feb. 12!! <a href="Emailto:Emailto

Feb. 7, 2024 - Want to know who's going to be at the <u>NFCA</u> Week of Learning '24? Check out the attendees! (Don't see

What else does NFCA Provide?



- Technical Expertise/Assistance
 - Industry Knowledge
 - Standards
 - Code
- We're there for you...









NFCA Standards



- Standards set Tone for responsibility, quality and life safety
 - NFCA 100
 - NFCA 200
 - NFCA 300
 - NFCA 400
 - NFCA ???



NFCA 200 Field Quality Assurance Procedure for the Application of Sprayed Fire-Resistive Material (SFRM)

1 Scope

The application of SFRM requires the contractor to ensure that the materials are installed in accordance with approval agency, manufacturers, and project criteria. This document defines the type of quality assurance procedures and the frequency of the procedure that should be



NFCA @ ASTM, UL/ULC TC's - Standards

- NFCA @ ASTM Task Groups Fireproofing
 - Committee E06.21 Fireproofing Inspection NEW
 - •SFRM
 - •IFRM
 - Boards & Wraps



- Committee E05 Fire Standards ASTM E119
 - Manufacturer Attendance Growing

NFCA @ ASTM, UL/ULC Standards Technical Panels

• UL 263

 Standard for Safety of Fire Tests of Building Construction Materials

ULC-S101

- Standard Methods of Fire Endurance Tests of Building Construction and Materials
- STP Includes ALL ULC Fire-Resistance Standards
- STP Includes ALL ULC Reaction to Fire Standards



NFCA & Steel Industry

- NFCA Builds Relationships
 - American Institute of Steel Construction (AISC)
 - •Brian Raff, Vice President, speaks at NFCA WOL
 - Bonnie Manley, Codes
 - Charlie Carter, President

- Canada Institute of Steel Construction
 - •CISC/ICCA ...soon.



NFCA in ACTION 2024!

- Industry Articles
 - Life Safety Digest
 - Fire Safe Build India (FSBI)
- Industry Trade Shows
 - ICC Annual Business Meeting / Expo
 - Construction Specifications Institute
 - More...



Lots Done, Much Travel in 2024....

NFCA Speaks, Builds Relationships

- Webinars
- FSBI Fire Safe Build India
- CSI Construction Specifications Institute
- NFPA Expo
- ICC Expo
- Dubai, UAE & Doha, Qatar& Riyadh, Saudi Arabia



NFCA Educational Events



NFCA/FCIA PasFiPro Canada Symposium

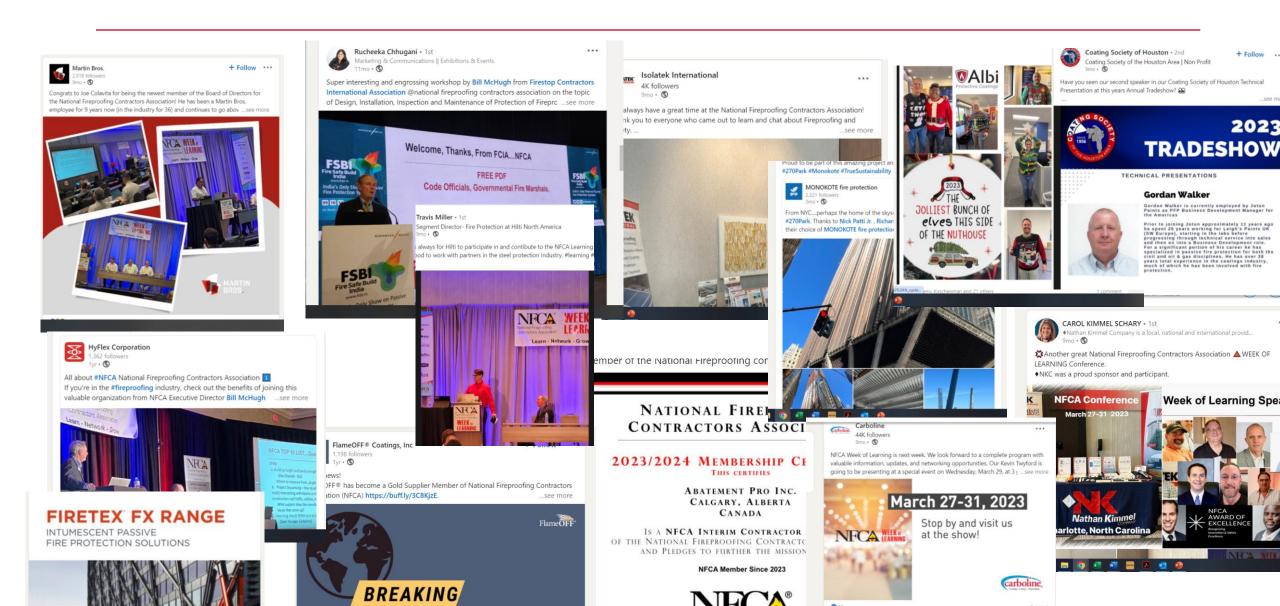
FIRE PROTECTION

- Members
- Code Officials
- NFCA/FCIA PasFiPro Dubai, Doha

NFCA @ Mexico LATAM/PCI



NFCA Promoting Passive Fire Protection....



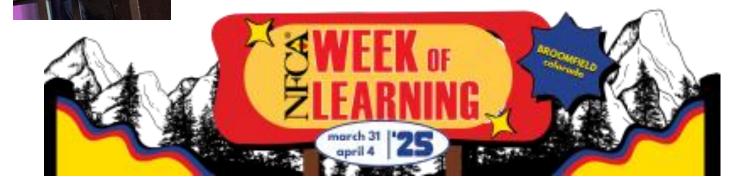
NFCA Educational Events



- NFCA's Week of Learning
- Weds. Education & Exhibits
- Thursday & Friday Education
- Monday, Tuesday, Weds., Fireproofing Education & Exams
- Amazing Speakers
- Committee Action







NFCA Contractor Accreditation Program

NFCA LIVE & VIRTUAL FIREPROOFING EDUCATION/EXAMS

- Contractor Designated Responsible Individual
- Focus on Fire-Resistance & Fireproofing
- •2025 Week of Learning
 - Omni Interlocken
 - Broomfield, CO (Denver)
 - •March 31-April 4, 2025



NFCA Education & Exams

- LIVE March 31 April 4, 2025 Denver Area, CO USA
- VIRTUAL Summer, 2025





NFCA Fireproofing Education Program Presenters

John Dalton, MONOKOTE (GCP / Saint Gobain)
Dan Ehehalt, Isolatek
Mark St. Onge, UL Solutions
John Meadows, Kevin Twyford, Carboline
Rich Walke, CTI, Consultant to NFCA
Bill McHugh, NFCA Executive Director



Contractor Qualifications – NFCA Contractor Accreditation Program (CAP)

- Contractor DRI's
- Inspection Agency Personnel
- Commitment to Fireproofing Installation
- NFCA Accreditation Seal Registered mark







Contractor Qualifications – UL QFCP

- UL Qualified SFRM Fireproofing Contractors
 - NFCA Education
 - •NFCA HAFK, DRI
 - UL Program Guide, Product iQ
 - NFCA SFRM Fireproofing Exam
 - Management System
 - •UL Audits -
 - Office
 - Field



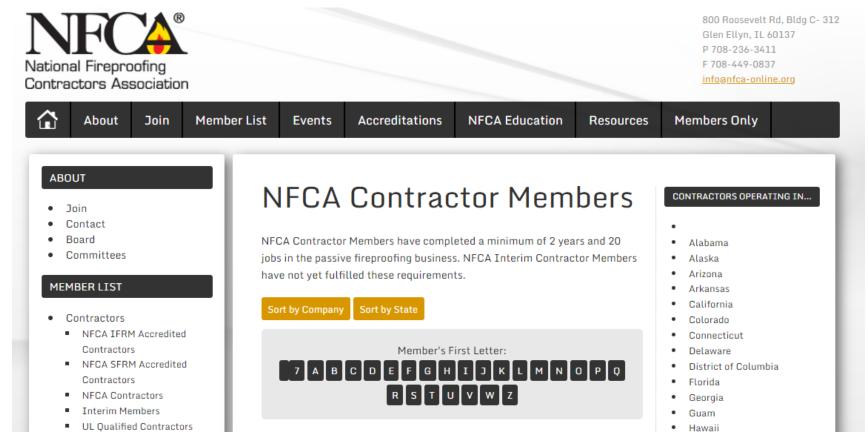






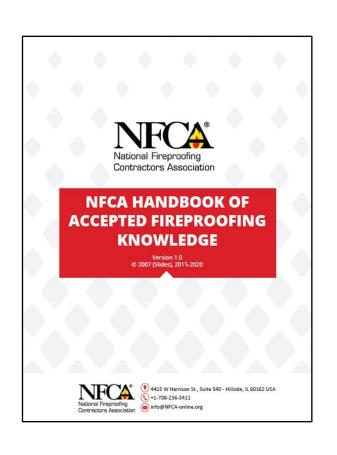
NFCA CAP & UL Contractors

- Successful Contractor meeting requirements
- Listed @ NFCA-Online.org



NFCA Handbook of Accepted Fireproofing Knowledge (HAFK)





- Study Guide NFCA Fireproofing Exams
 - Fireproofing in 'One Place'
- NFCA Members = \$500 Discount
- FREE HAFK PDF for AHJ's & Specifiers with Design Firms, Independent Specifiers
- SAFETY HANDBOOK INCLUDED
- More New Chapters coming...
 www.nfca-online.org

NFCA ICC 2027 CDP - Cycle A, B

ICC Cycle A – IBC Chapter 7, 10, 17 – IFC ALL – 2024, 2026

- January 8, 2024 Proposals Due
- April 7-16 CAH Hearing #1
- July 9 Comments Due
- October 23–31 CAH Hearing #2
- March 14, 2025 Public Comments Due
- April 19-28, 2026 Public Comment Hearing

NFCA ICC 2027 CDP - Cycle A, B

ICC Cycle B – IBC General, IBC Structural – 2025, 2026

- January 2025 Proposals Due –
- April 27 May 6, 2025 CAH Hearing #1
- July 15, 2025 Comments to CAH #1 -
- Oct. 22-30, 2025 CAH #2
- Nov. 25, 2025 PC's Due for 2026 PCH
- April 19-28, 2026 PCH Hearing

NFCA @ IBC, IFC '27...SUMMARY

- Fire Code Resistive, Maintain Protection, Repairs
- Table 601 20' Rule; Clarifications
- Occupiable Roofs Fire-Resistance-Rated
 - High Rise & Low Rise
- Clarify Attachments
- Parking Garage Fire-Resistance
- Fireproofing Special Inspection
 - ADD NEW ASTM Drafts SFRM, IFRM, Boards/Wraps, Delete AWCI 12B
 - Reference Manufacturers Installation Instructions
- ICC Existing Building Inspection Guide
 - "Milestone Inspections"



2027 Code Development Process (CDP) IBC, NFPA 2025/2030 CDP – NBCC, NFCC

Bill McHugh, Technical Director, NFCA Rich Walke, Consultant to the NFCA

NFCA FREE Webinar Series Learn – Network – Grow



FIRE



NFCA @ ICC Codes...

- 2021 & 2024 Code NFCA Results
 - IBC Inspection Ongoing, 2nd visual inspection before concealment of beams, columns, assemblies....
 - •IFC Maintain Protection Fireproofing
 - IFC Code Commentary How to Maintain Fireproofing
 - IBC Intumescent Coatings / Mastic Coatings to IFRM
 - IBC SFRM Resistant to Resistive
 - IBC "Fire Resistance NOT Eliminated"
 - •In Section 104.11, Fire Safety, refers to all aspects of fire protection, **including** Chapter 7





NFCA @ IBC, IFC '27...Proposals

- IFC Intl. Fire Code
 - Resistant to Resistive
 - Maintain Protection
 - Patching & Repairs
- IBC Intl. Building Code Table 601
 - 20' Rule;
 - Clarifications
- IBC Occupiable Roofs Fire-Resistance-Rated
 - High Rise & Low Rise
- IBC Clarify Attachments

- IBC Parking Garage Fire-Resistance – Li Batteries
- IBC Fireproofing Special Inspection
 - ADD NEW ASTM Drafts SFRM, IFRM, Boards/Wraps, Delete AWCI 12B
 - ADD Reference to Manufacturers Installation Instructions
 - Defend Unrestrained

F90-24 – PATCHING & REPAIR FOLLOW LISTING & Mfr. Instructions...

Kevin Scott, KH Scott Assoc. Comment AM, October '24 Hearings - Fire Marshal 'Field' Perspective

 708.2 Repair of sprayed fire-resistant fire-resistive materials and intumescent fireresistant fire-resistive materials. Where damaged, materials Materials used to protect columns, beams and horizontal assemblies shall be securely bonded to the substrate without evidence of deterioration or damage, or delamination, cracks or voids through which the substrate is exposed. Where the original material and listing is known or can be identified, such damage shall be repaired, replaced or restored in accordance with to the requirements of the listing in accordance with the manufacturer's repair instructions. and with the same materials and thicknesses used in the listing provided the original material is known or can be identified. Where the listing original material or listing is not known or is no longer available, repairs shall be made with the same material type and thickness that exists as originally used.

F91-24 – Annual Visual Inspection

Approved as Submitted. No Comments.

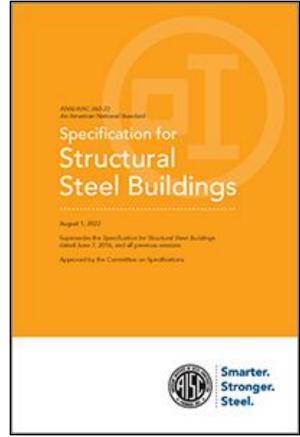
• 708.1 Maintaining protection. Where required when the building was originally permitted and constructed, spray fire-resistant materials, and intumescent fire-resistant materials and other materials used to provide fire-resistance protection, shall be visually inspected to verify that the materials do not exhibit exposure to the substrate.

NFCA's Watch List – Concrete / Steel / Wood Industries

 Strategic move by all three structural building element industries, to reference:

- AWC / FDS
- AISC 360
- ACI 216 / PCI 318

Consensus changes....



FS-2 Restrained/Unrestrained

Approved as Submitted at CAH #1. One Comment.

- FS2-24 Steve Szoke, ACI & Shamim Rashid-Sumar, NRMCA
- 703.2.1.3 Restrained classification.
- Exception: Unless otherwise determined by the registered design professional, concrete girders, beams, and slabs connected to structural concrete framing or structural concrete walls in accordance with ACI 318 shall be considered restrained. Restrained concrete construction shall be identified on the construction documents.

FS-2 Restrained/Unrestrained

AISC Comment (Bonnie Manley) DISAPPROVED @ October ICC Hearings....

703.2.1.3 Restrained classification....AISC attemped....

Exceptions:

2. Unless otherwise determined by the registered design professional, cast-in-place or prefabricated concrete floor or roof construction secured to structural steel framing members, and individual structural steel beams and girders that are welded or bolted to integral framing members, shall be considered restrained construction in accordance with AISC 360, Appendix 4, Section 4.3.3.

FS-2 Restrained/Unrestrained

- AISC proposal refers to AISC 360, Appendix 4, Section 4.3.3.
 - 3. Restrained Construction
 - For floor and roof assemblies and individual beams in buildings, a restrained condition exists when the surrounding or supporting structure is capable of resisting forces and accommodating deformations caused by thermal expansion throughout the range of anticipated elevated temperatures. Cast-in-place or prefabricated concrete floor or roof construction secured to steel framing members, and individual steel beams and girders that are welded or bolted to integral framing members, shall be considered restrained construction.
- Will AISC 360 stay the same....or change...CONSENSUS = AISC

FS-2 Restrained/Unrestrained

- NFCA @ AISC COMMITTEE TC8 Nov. 16, 2024
- AISC TC8 Task Group (TG) formed
- TG Objective Review ASTM E119, UL 263 vs. AISC 360
 - Rich Walke, NFCA Former UL
 - Bob Berhinig, former UL
 - Ali Morovat, NIST
 - Jon-Paul Cardin, MBMA
 - Bonnie Manley, AISC (monitor)
- TG's vote!

FS-3 Extension of Data – E119 / E2032

Approved as Submitted at CAH #1. No Comments. FS3-24 Marcello Hirschler, GBH International

- 703.2.2 Analytical methods. The fire resistance of building elements, components or assemblies established by an analytical method shall be by any of the methods listed in this section, based on the fire exposure and acceptance criteria specified in ASTM E119 or UL 263.
 - 1. Fire-resistance designs documented in approved sources.
 - 2. Prescriptive designs of fire-resistance-rated building elements, components or assemblies as prescribed in Section 721
 - 3. Calculations in accordance with Section 722.
 - 4. Extension of fire resistance rating data obtained from tests in accordance with ASTM E119 or UL 263 for beams, floor and roof assemblies, columns; walls, and partitions, based on the principles contained in ASTM E2032.
 - 5. Engineering analysis based on a comparison of building element, component or assemblies designs having fire-resistance ratings as determined by the test procedures set forth in ASTM E119 or UL 263.
 - 6. Fire-resistance designs certified by an approved agency.

FS9-24 – Edward Lisinski, American Wood Council

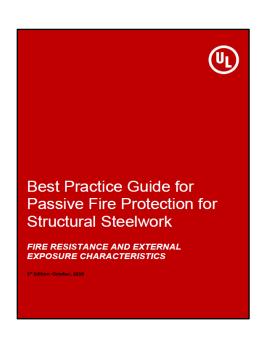
Disapproved 7-4 – NFCA Opposed to AWC's Equivalence. One Comment.

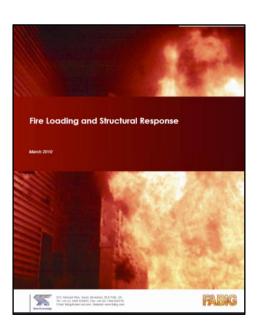
- <u>704.5.2 Connections to structural wood members.</u> Where a structural wood member is required to have a fire-resistance rating, structural connections to that member shall be protected from fire exposure for the time corresponding to the required fire-resistance rating of the member. Protection time shall be determined by one of the following:
 - 1. <u>Testing in accordance with Section 703.2.1 where the connection is part of the fire-resistance test.</u>
 - 2. Engineering analysis that demonstrates that the temperature rise at any portion of the connection is limited to an average temperature rise of 250°F (139°C), and a maximum temperature rise of 325°F (181°C), for a time corresponding to the required fire-resistance rating of the structural element being connected. For the purposes of this analysis, the connection includes connectors, fasteners and portions of wood members included in the structural design of the connection.
 - 3. Engineering analysis in accordance with ANSI/AWC FDS.

FS-10 Attachments - NFCA

NFCA Task Force – 10 Monthly Virtual Meetings

- Carl Fernald, Paul Steele, Mat Stephenson, Steve Winston, Rich Walke,
 Bill McHugh, Board Members, Many Manufacturer Members
 - Rich Walke @ AISC TG8 Meeting, June 13
 - Research found
 - UL (UK 2018) 18" Coatback
 - FABIG Tech Note 11 (UK 2010)
 - AISC?? UL?? ICC NTA??
 - Fire Modeling?
 - Fire Testing?





FS-10 Attachments - NFCA

Requested DISAPPROVAL at CAH #1. One comment (NFCA)

 704.5.1 Secondary attachments to structural members. Where primary and secondary structural steel members require fire protection, any additional structural steel members having direct connection to the primary structural frame or secondary structural member, and having a cumulative unprotected footprint greater than 4.65 square inches (3,000 mm) per 3 linear feet or per linear meter of primary or secondary steel, shall be protected with the same fire resistive material and thickness as required for the structural member. The protection shall extend away from the structural member a distance of not less than 12 18 inches (305457 mm), or shall be applied to the entire length where the attachment is less than 12 18 inches (305457 mm) long. Where an attachment is hollow and the ends are open, the fire-resistive material and thickness shall be applied to both exterior and interior of the hollow steel attachment.

FS-10 Attachments - NFCA

NFCA Requested DISAPPROVAL

- 704.5.1 Secondary attachments to structural members.
 - Need Data to prove or disprove protection requirements.
 - AISC Research @ Purdue University??
 - NFCA Research @ UL, ICC NTA ??
 - Current IBC 2024 seems to have solved...
 - Option to PC...

FS28-24 - Paul Battaglia, Sound Control

DISAPPROVED at CAH #1. No Comments.

- 707.5.1 Supporting construction.
- 3. Supporting construction for 1- and 2-hour fire barriers in buildings of Type IIB, IIIB and VB construction is not required to be fire resistance rated in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2.
 - Sprinklered Buildings
 - DISAPPROVED 13-0 Fire Partitions OK, Fire Barriers, NO.
 - "Supporting construction is critical to fire resistance"

FS81-24 – Bonnie Manley, AISC & Jon-Paul Cardin, CFSteel Group

Approved as Submitted at CAH #1. No Comments.

- The purpose of this proposal is to delete five archaic systems that are no longer included for new building applications in
- AISC 360-22's mandatory Appendix 4, Structural Design for Fire Conditions, (specifically Appendix 4, Section 4.3).
- These entries have been retained in AISC 360 Appendix 4 commentary for historical purposes.
- Opposed philosophically...code officials agreed. Might be a PC.

FS82-24 – Ed Lisinski, American Wood Council

APPROVED AS SUBMITTED, 7-4 at CAH #1. No Comments.

- Prescriptive Fire Resistance
- TABLE 721.1(2) RATED FIRE-RESISTANCE PERIODS FOR VARIOUS WALLS AND PARTITIONS
- TABLE 721 (3) TABLE 721.1(3) MINIMUM PROTECTION FOR FLOOR AND ROOF SYSTEMS
 - r. Fire-resistance-rated assemblies, as prescribed in the ANSI/AWC FDS, shall be permitted.

Adds new Standard:

ANSI/AWC FDS-2024: Fire Design Specification (FDS) for Wood Construction

FS84-24 – Steve Szoke, ACI & Shamim Rashid-Sumar, NRMCA

APPROVED AS SUBMITTED at CAH #1. No Comments.

- 721.1 General. Prescriptive Fire Resistance
 - 721.1.1 Concrete. Prescriptive details of fire resistance-rated concrete building components shall comply with Section 721.1, ACI/TMS 216.1, or PCI 124.
 - 721.1.2 Masonry. Prescriptive details of fire resistance-rated masonry building components shall comply with Section 721.1 or ACI/TMS 216.1.

FS85-24 – Bonnie Manley, AISC

APPROVED AS SUBMITTED. One Comment (NFCA w/AISC Support).

- Section 722 Calculated Fire Resistance
 - •3. Steel assemblies and composite steel and concrete assemblies shall be permitted in accordance with AISC 360 Appendix 4, Section 4.3 Chapter 5 of ASCE 29.

NOTE: AISC 360 Section 4.3 includes Testing, Calculating SFRM and IFRM Thicknesses and advanced analysis methods

NFCA's Bill McHugh testified in opposition to FS85

FS85-24 – Bonnie Manley, AISC

• FROM 2022 AISC 360

- (b) Sprayed and intumescent or mastic fire-resistant materials.
 The fire resistance of columns protected with sprayed or
 intumescent or mastic fire-resistant coatings shall be
 determined on the basis of standard fire-resistance rated
 assemblies, any associated computations, and limits as
 provided in the applicable rated assemblies.
- The fire resistance of wide-flange columns protected with sprayed fire-resistant materials is permitted to be determined as follows:

FS85-24 – Bonnie Manley, AISC

- NFCA's Rich Walke worked with AISC
- NFCA/AISC Comment PASSED @ IBC October Hearings
- NFPA 5000 Task Group –
- Rich Walke, NFCA; Bonnie Manley, AISC; Cathy Stashak, ILSFM Office
 - Exception: Establishing equivalency to the standard fire-resistance rating using the advanced methods of analysis of AISC 360 Appendix 4, Section 4.2 in combination with the fire exposure specified in ASTM E119 or UL 263 as the design-basis fire, as permitted in AISC 360 Appendix 4, Section 4.3.1, shall be in accordance with the requirements of Section 104.2.3.

FS90-24 – Bonnie Manley, AISC

APPROVED AS SUBMITTED at CAH #1 – NFCA supports Listings... No Comments.

- <u>722.5.3 Composite Structural Steel and Concrete Columns.</u> The fire-resistance rating of structural steel columns acting compositely with concrete (filled or encased) shall be permitted to be based on the size of the composite member and concrete protection in accordance with AISC 360, Appendix 4, Section 4.3.2b.
- 722.5.4 Composite and Noncomposite Structural Steel I-shaped

 Beams and Girders. The fire-resistance rating of composite or

 noncomposite structural steel I-shaped beams and girders shall be

 permitted to be based on the size of the element and the type of protection

 provided in accordance with AISC 360, Appendix 4, Section 4.3.2c.

NFCA Watch List – Steel Industry

FS90-24 – Bonnie Manley, AISC, CONTINUED.....

- 722.5.5 Concrete Floor Slabs on Steel Deck. The fireresistance rating of composite concrete floor slabs on steel deck shall be permitted to be determined in accordance with AISC 360, Appendix 4, Section 4.3.2f.
- 722.5.6 Composite Plate Shear Walls. The fireresistance rating for unprotected composite plate shear walls shall be permitted to be determined in accordance with AISC 360, Appendix 4, Section 4.3.2g.

Fireproofing Special Inspection

• "ASTM Fireproofing Inspection Standards are developed, maintained, by Fireproofing Industry Consensus."

NFCA Special Inspection Proposals

S2-24 – SFRM Inspection

- Adds ASTM WK70851
- Deletes duplicate info re: ASTM E605, E736 Ch. 17
- DISAPPROVED, Standard Not Done

NFCA Special Inspection Proposals

DISAPPROVED, Standard Not Done... ASTM Adjudication Process moving along...

 S4-24 – Adds NEW ASTM Special Inspection of Fireproofing Board & Wrap Materials - WK70807

- S5-24 Adds NEW Special Inspection of Intumescent Fire-Resistive Materials WK70852
 - Deletes AWCI 12B

NFCA Special Inspection Proposals

S3-24 – SFRM Inspection in accordance with the IBC AND Manufacturers Installation Instructions (MII)

• Environment, Installation, Substrate Temperature, much more ---- NOT in Listings.

APPROVED AS SUBMITTED. No Comments.

NFCA ICC 2027 CDP – Cycle A

- March 15, 2025
 - Public Comments Due
- April 2026 -
 - ICC Public Comment Hearings

NFCA ICC 2027 CDP – Cycle B

ICC Cycle B - IBC General, IBC Structural – 2025, 2026

- January 10, 2025 Proposals Due
- April 27 May 6, 2025 Hearings

NFCA Occupiable Roofs 1 Story

Table 601 Footnote b

b. Occupiable roofs of single-story buildings without a required fire-resistance ratings on the floor construction of the first floor shall have a fire-resistance rating of 1 hr on the occupiable roof. The requirement for a fire-resistance rating on the supporting construction does not apply in this application for all types of construction and all occupancies.

NFCA Occupiable Roofs >1 floor

Table 601, Footnote b

b. The fire-resistance rating of an occupiable roof shall be equal to or greater than the required fire-resistance rating of the floor construction below.

NFCA Occupiable Roofs Table 601, Footnote b

Table 601, Footnote b

- b. Except in Group F-1, H, M and S-1 occupancies, Where every part of the roof construction is 20 ft or more above the floor or mezzanine immediately below, fire protection of structural members in roof construction shall not be required, including protection of primary structural frame members, roof framing and d e c k i n g where every part of the roof construction is 20 feet or more above any floor or mezzanine immediately below.except where any of the following conditions apply:
 - 1. In Group F-1, H, M and S-1 occupancies.
 - 2. Where the roof is occupiable.

NFCA Parking Garage Proposals – 4hrs.

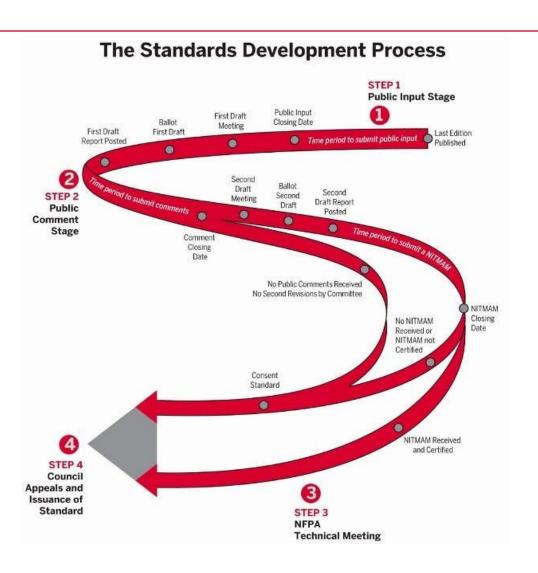
- 406.5.1, 406.6.4.1
 - Separate from Other Occupancies by 4 hour fire-barriers
 - Open & Enclosed Structures
- 510.4 Parking beneath Group R Occupancies
- 510.7.1 Fire Separation No Less than 4 hours, plus supporting construction
 - 4 hours = closest approximation to UL 1709
 - Openings, Penetrations, Joints & Voids = NO UL 1709 Fire
 Testing
- But....maybe we submit UL1709 Fire Exposure...



NFCA @ IBC 2027 Cycle B CDP

Much more...stay tuned.

- NFPA 5000
- NFPA 101



• PI 110 – Marcelo Hirschler

Delete 'Other Test Methods' in Equivalency Section

APPROVED

PI 23 - AWC – American Wood Council

APPROVED AS MODIFIED

NFCA, change 'Standard to Specification'

What section of AWS/FDS?

• PI 43 - AISC - Bonnie Manley

 8.2.3.2.3 Where calculations are used to establish the fire resistance rating of structural steel assemblies and composite steel and concrete assemblies, the provisions of AISC 360 Appendix 4, Section 4.3 shall be permitted.

- NFPA Task Group Formed to study issue further...
 - Rich Walke, Bonnie Manley, Cathy Stashak

Canada's Codes

- NBCC & NFCC National Building / Fire Code of Canada –
- Attachments
- Fireproofing Special Inspection
- Occupiable Rooftops
- Installation in Accordance with Manufacturers
- Manufacturers Instructions and Listings
- Replicate recent IBC changes
- Annual Visual Inspection
- 2025's Fire Protection Chapter Commenting NOW



NFCA @ Canada's CDP

- 2030 NFCC National Fire Code of Canada
 - Maintaining protection
- Educate About Existing Buildings







NFCA Code Team

Committee

- Don Armand, Donalco Western
- Daniella Lopez, Nevell Group
- Paul Steele, Raymond Group
- More...

Consultant/Staff

- Rich Walke, CTI, Doug Evans, Consultant to NFCA
- •Bill McHugh, NFCA
- Abhishek Chhabra, Consultant to NFCA Global

NFCA @ NFPA 1, 101, 5000

- NFCA @ NPFA 1, 101/5000 Codes...
 - Fire Protection Features Committee
 - Proposals Due June 2024
 - Insert ASTM Fireproofing Inspection Standards
 - Replicate recent IBC changes into NFPA 101, 5000
 - Clarify Maintaining Protection in NFPA 1, 101



What is Your Role?

- Join NFCA & Join a Committee!
- Become a DRI for your company
- Get Company NFCA CAP Accredited
- Become UL Qualified



- Spread the word about the NFCA & Fire Resistance
 - CAP/UL SPECS
 - Code Officials
 - Fire Marshals
 - Building Owners & Managers

NFCA Fireproofing Class '22



• RECRUIT A NEW MEMBER Contractor, Inspection Agency...





Thanks for Attending!!!



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