

What Code We Do For You?

Bill McHugh, FCIA

13 June 2024



OVERVIEW

- Overview of the ICC and NFPA 2024 Code Processes
- Discuss proposals submitted for Group A for the 2027 Codes
 - International Building Code - Fire Safety, Egress & Structural
 - International Fire Code
- Penetration, Joint & Void proposals submitted through the Fire Code Action Committee (FCAC)
- Discuss proposals submitted by others
- Discuss potential Group B proposals for the 2027 codes:
 - International Building Code – General & Structural
 - International Existing Building Code
- NFPA 101 Life Safety Code, NFPA 5000 Building Code & NFPA 1 Fire Code



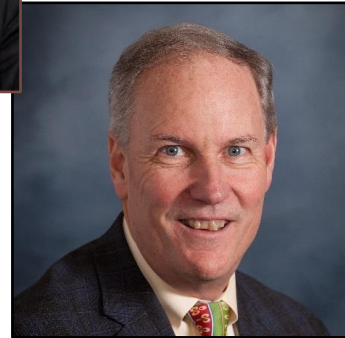
Overview of the Upcoming 2027 ICC and 2027 NFPA Code Development Processes

- ICC Group A 2024
 - IBC Fire Safety
 - IFC
 - Others
- ICC Group B 2025
 - IEBC
 - IBC General and Structural
 - IRC
 - ADMIN for all I-codes
- ICC “special” activities ongoing
 - Health care occupancies
 - FCAC and BCAC
- NFPA 2027
 - 101
 - 5000
 - 221
 - 1
- ICC Group A 2024
 - Proposal Deadline - January 8, 2024
 - First Committee Hearings – April, 2024
 - Public Comments Due – July 8, 2024
 - Second Committee Hearing – October, 2024
 - Public Comments Due – March 14, 2025
- ICC Group B 2025
 - Proposal Deadline - January 10, 2025
 - First Committee Hearings – April/May, 2025
 - Public Comments Due – July 15, 2025
 - Second Committee Hearings – October, 2025
 - Public Comments Due – January 5, 2026
- Combined Group A & B Public Comment Hearings – TBD, 2026
- NFPA 101/5000/221/1 2027
 - Public Input Deadline – June 4, 2024 / June 4, 2024 / June 4, 2024 / April 4, 2024
 - NFPA 101/5000/221 First Draft Meetings – July, 2024
 - NFPA 1 First Draft Meetings – June, 2024

FIRESTOPPING CODE DEVELOPMENT



FCIA CODE DEVELOPMENT TEAM



FCIA works with Others...AHJ's Too.



ICC Group A Code Proposals - 2027 International Codes - Proposals Submitted by FCIA

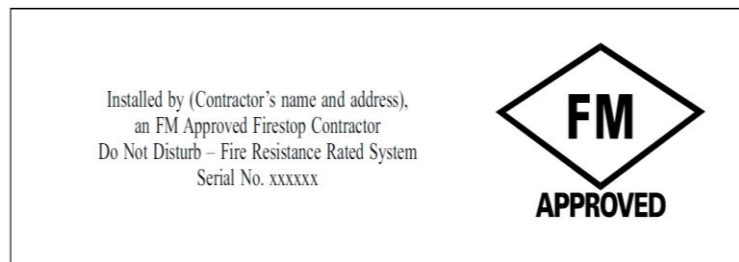


Protect Penetrations Through Occupiable Roof

- **IBC 2027 FS35-24 – Disapproved 6-5**
 - Proponent: Bill Koffel for FCIA
- **Resubmitted from Previous Cycles** – Adds requirement to protect penetrations through rated and nonrated occupiable roofs.
 - **711.2.4.7 Occupiable roofs.** Occupiable roofs shall have penetrations protected in accordance with Section 714 and joints and voids protected in accordance with Section 715. Skylights shall not be located within the occupied area of occupiable roofs.
 - **711.3 Nonfire-resistance-rated floor and roof assemblies.** Nonfire-resistance-rated floor, floor/ceiling, roof and roof/ceiling assemblies shall comply with Sections 711.3.1 and 711.3.2.
 - **711.3.3 Occupiable roofs.** Occupiable roofs shall have penetrations, joints and voids protected with materials or systems that prevent the spread of fire through the roof assembly. Skylights shall not be located within the occupied area of occupiable roofs.
- **DISAPPROVED – 6-5 But....**
 - Paver Joints?
 - Unintended consequences? (M. Fischer, Kellen Co)

Identification Devices

- **IBC 2027 FS40-24; FS42-24 – Both Disapproved 11-0**
 - Proponent: Bill McHugh for FCIA / Bill Koffel for FCIA
- **Resubmitted from Previous Cycles** – Adds requirement for identifying installed firestop and joint systems.
 - Two approaches submitted
 - FS40-24 - Draft ASTM Standard (McHugh)
 - FS42-24 - Criteria in Code (Koffel)
 - Each proposal covered Penetrations and Joints



Installations in Accordance with Published Installation Instructions and Listings

- **IBC 2027 FS43-24 – Approved as Modified (Phillips-MP3) 11-0**
 - Proponent: Bill Koffel for FCIA
- **Resubmitted from Previous Cycles** – Adds requirement to that penetrations, joints and voids shall be installed in accordance with the mfr’s installation instructions and listings.
 - **MANUFACTURER'S INSTALLATION INSTRUCTIONS.** Published instructions included with materials, systems, or equipment.
 - **714.2 Installation.** A listed penetration firestop system shall be installed in accordance with the manufacturer’s installation instructions and the listing criteria. Manufacturer's installation instructions and listings shall be available on the job site at the time of installation and inspection.
 - **715.2 Installation.** Systems or materials protecting joints and voids shall be installed in accordance with Sections 715.2.1 and 715.2.2. Manufacturer’s installation instructions and listings shall be available on the job site at the time of installation and inspection.
 - **715.2.1 List Listed system installation.**

Installer Qualifications

- **2027 IBC FS44-24 – Disapproved 13-0**
 - Proponent: Bill Koffel for FCIA
- **Resubmitted from Four Previous Cycles** – Adds requirement that firestop systems and fire-resistant joint systems shall be installed by contractors qualified by a Nationally Recognized Testing Laboratory.
 - **714.2.1 Installer Qualifications.** In high-rise buildings, in buildings assigned to Risk Category III or IV, or in fire areas containing Group R occupancies with an occupant load greater than 250, penetration firestop systems shall be installed by contractors qualified by a Nationally Recognized Testing Laboratory.
 - **Exceptions:**
 1. Where the work is of a minor nature as approved by the code official.
 2. Where the work is a Repair or Alternation Level 1 as defined by the International Existing Building Code.
- **Same for fire-resistant joint systems**



Penetrations in Parking Garages

- **IBC 2027 FS48-24 – Disapproved 10-1**
 - Proponent: Bill Koffel for FCIA
- Reverses a proposal passed last cycle which added exception stating penetrations through concrete floors or vehicle ramps within open and closed parking garages above or below parking areas do not require protection. Similar to FS47-24 but goes one step further in also requiring protection of penetrations through concrete ramps.
- Section 714.5.1 Exception: *Through penetrations of horizontal assemblies* shall comply with Section 714.5.1.1 or 714.5.1.2.
 - ~~4. Penetrations of concrete floors or ramps within parking garages or structures constructed in accordance with Sections 406.5 and 406.6 where the areas above and below the penetrations are parking areas.~~

Delete Exception Allowing Unprotected Joints in Parking Garages


- **IBC 2027 FS54-24 – Disapproved 10-2**
 - Proponent: Bill Koffel for FCIA
- Removes exception stating fire-resistant joint systems are not required in floors or ramps within open and closed parking garages.
 - Section 715.3 Exception: *Fire-resistant joint systems* shall not be required for *joints* in the following locations:
 - ~~5. Floors and ramps within parking garages or structures constructed in accordance with Sections 406.5 and 406.6.~~

Delete Exception Allowing Unprotected Perimeter Voids at Roof Assemblies

- **IBC 2027 FS55-24 – Approved as Modified (Koffel 1) 11-1**
 - Proponent: Bill Koffel for FCIA
- Removes exception stating perimeter fire containment systems are not required at voids between fire-resistance-rated roofs or roof-ceiling assemblies, and exterior curtain walls.
 - Section 715.3 Exception: *Fire-resistant joint systems* shall not be required for *joints* in the following locations:
 - ~~10. The intersection of exterior curtain wall assemblies and the roof slab or roof deck.~~
 - **715.4 Exterior curtain wall/fire-resistance-rated floor intersections.** Voids created at the intersection of exterior curtain wall assemblies and fire-resistance-rated floor, ~~or floor/ceiling, roof, or roof/ceiling~~ assemblies shall be protected with an approved perimeter fire containment system to prevent the interior spread of fire. Such systems shall provide an F rating for a time period not less than the fire-resistance rating of the floor or floor/ceiling assembly.

Requirements for Special Inspectors for Penetrations, Joints and Voids

- **IBC 2027 S6-24 – Approved as Submitted**
 - Proponent: Bill Koffel for FCIA
- Adds requirements that special inspectors of penetrations, joints and voids shall demonstrate expertise through passing an exam conducted by a Nationally Recognized Testing Laboratory, trade association or approved equivalent.
 - **1705.18.3 Qualifications.** Special inspectors who perform special inspections of penetration firestop systems and fire-resistant joint systems shall have expertise in listings and manufacturer's installation instructions, demonstrated by passing a firestop examination conducted by a Nationally Recognized Testing Laboratory, trade-association, or an approved equivalent.



**ICC Group A Code Proposals
- 2027 International Code -
Proposals Submitted Through
ICC Fire Code Action
Committee**



Penetrations Through Exterior Walls - FCAC

- **IBC 2027 FS18-24 – Approved as Modified by Committee 10-2**
 - Proponent: International Firestop Council Through the FCAC
- **Resubmitted from two Previous Cycles** – Adds requirement to protect penetrations through exterior walls which require protection of all openings protectives.
- Proposal drafted by WG1, TG1.1 and approved for submittal by FCAC.
 - **705.11 Penetrations.** Penetrations into or through exterior walls required to have a fire-resistance rating shall comply with Section 714. Penetrations by ducts and air transfer openings shall comply with Section 705.10.
 - **Exception:** Exterior walls that are permitted to have unprotected openings in accordance with Section 705.8 do not require protection of penetrations.
 - **714.4 Fire-resistance-rated walls.** Penetrations into or through exterior walls, fire walls, fire barriers, smoke barrier walls and fire partitions shall comply with Sections 714.4.1 through 714.4.3. Penetrations in *smoke barrier* walls shall also comply with Section 714.5.4.
 - **Exception:** Exterior walls that are permitted to have unprotected openings in accordance with Section 705.8 do not require protection of penetrations.

Continuity Head-of-Wall Systems - FCAC

- **IBC 2027 FS29-24 – Approved as Submitted 13-0**
 - Proponent: International Firestop Council through FCAC
- **Resubmitted from two Previous Cycles** – Add paragraph to require continuity head-of-wall system at the intersection of a fire barrier and the underside of a non-rated *floor* assembly.
 - Approved material, OR ASTM E2837 tested system
- Proposal drafted by WG1, TG1.1 and approved for submittal by FCAC
 - **707.9 Voids at intersections.** The voids created at the intersection of a *fire barrier* and a nonfire-resistance-rated floor assembly, non-fire resistance rated roof assembly, or a nonfire-resistance-rated *exterior wall* assembly shall comply with Section 715.
 - **715.6 Fire barrier/nonfire-resistance-rated floor or roof assembly intersections.** Voids created at the intersection of a *fire barrier* and the underside of a nonfire-resistance-rated floor or roof sheathing, slab or deck above shall be filled by an *approved* material or system to retard the passage of fire and hot gases, or shall be protected by an *approved continuity head-of-wall system* tested in accordance with ASTM E2837 to provide an *F rating/T rating* for a time period not less than the required *fire-resistance rating* of the *fire barrier* in which it is installed.

System Variations – FCAC

- **IBC 2027 FS41-24 – Disapproved 11-1**
 - Proponent: FCIA through FCAC
- Emulates Section 703.2.1.4. Intended to give code authority the power to demand documentation to show penetration and joints being installed meet the code.
- Proposal drafted by WG1, TG1.1 and approved for submittal by FCAC.
 - **714.2 System variations.** Where variations between the installed system and the tested through- or membrane-penetration firestop system exist, sufficient documentation shall be provided to the building official to show that the required ratings are not reduced.
 - **715.2 System variations.** Where variations between the installed system and the tested fire-resistant joint system, perimeter fire containment system or continuity head-of wall system exist, sufficient documentation shall be provided to the building official to show that the required ratings are not reduced.

Deletion of Annular Space Protection Materials Provisions - FCAC

- **IBC 2027 FS46-24 – Approved as Modified (Walke 1) 12-0**
 - Proponent: FCIA through FCAC
- Deletes the Annular Space Protection Materials Provisions.
- Current language is essentially the code language which existed prior to publication of ASTM E814 / UL 1479.
- Does not require a Hose Stream test.
- Deletes Annular Space Protection Materials language for penetrations through walls and horizontal assemblies in Sections 714.4.1 and 714.5.1, respectively.
- Proposal drafted by WG1, TG1.1 and approved for submittal by FCAC.

Penetrations in Parking Garages - FCAC

- **IBC 2027 FS47-24 – Approved as Submitted 7-4**
 - Proponent: FCIA through FCAC
- Reverses part a proposal passed last cycle which added exception stating penetrations through concrete floors or vehicle ramps within open and closed parking garages above or below parking areas do not require protection.
- WG1, TG1.1 believes the scope of exception should be limited. Proposal limits scope to penetrations of concrete vehicle ramps serving parking garages which are not adjacent to parking areas.
- Proposal drafted by WG1, TG1.1 and approved for submittal by FCAC
 - Section 714.5.1 Exceptions:
 - ~~4. Penetrations of concrete floors or ramps within parking garages or structures constructed in accordance with Sections 406.5 and 406.6 where the areas above and below the penetrations are parking areas.~~ Vehicle ramps within or adjacent to parking garages or structures constructed in accordance with Sections 406.5 and 406.6 that are not used for vehicle parking do not require penetrations to comply with Section 714.5.1.1, 714.5.1.2 or 714.5.1.3.

Correction of Air Leakage Requirements - FCAC

- **IBC 2027 FS51-24 – Approved as Submitted 11-0**
 - Proponent: FCIA through FCAC
- Updates air leakage requirements for penetrations to what we believe to be the original intent.
- Proposal drafted by WG1, TG1.1 and approved for submittal by FCAC
 - **714.5.4 Penetrations in smoke barriers.** Penetrations in *smoke barriers* shall be protected by an approved *through-penetration firestop system* installed and tested in accordance with the requirements of UL 1479 for air leakage. The *L rating* of the systems measured at 0.30 inch (74.7 Pa) of water in both the ambient temperature and elevated temperature tests shall meet one~~not exceed either~~ of the following:
 1. A maximum 5.0 cfm per square foot ($0.025 \text{ m}^3 / \text{s} \times \text{m}^2$) of penetration opening for each *through-penetration firestop system*.
 2. A ~~total~~maximum cumulative leakage of 50 cfm ($0.024 \text{ m}^3 / \text{s}$) for all *through-penetration firestop systems* within any 100 square feet (9.3 m^2) of wall area, or floor area.



ICC Group A Code Proposals - 2027 International Codes - Other Proposals of Interest to FCIA



Air Sealing of Mass Timber Construction

- **IBC 2027 FS7-24 – Disapproved 7-4**
 - Proponent: American Wood Council
- Addresses air sealing of mass timber where a fire-resistant joint system is not required.
 - Committee did not understand intent of proposal
 - Confused air sealing with Fire-Resistant Joint Systems

Roof Openings and Penetrations

- **IBC 2027 FS37-24 – Approved as Modified (Hatfield-MP1 and Grove-P2)**
 - Proponent: Jeff Grove for SNC
- Expands on Skylight opening allowance by adding allowance for unprotected openings and penetrations.
 - **711.4 Roof Openings.** Roof openings in a fire-resistance-rated roof deck or slab are permitted to be unprotected, provided that the structural integrity of the fire-resistance-rated roof assembly is maintained. Unprotected roof openings shall not be permitted in roof assemblies required to be fire-resistance rated in accordance with Section 705.9.5 and shall comply with the opening protectives of Section 716. The supporting construction shall be protected to afford the required fire-resistance rating of the horizontal assembly supported.
 - **711.5 Roof Penetrations..** Penetrations through a fire-resistance-rated roof deck or slab are permitted to be unprotected, provided that the structural integrity of the fire-resistance-rated roof assembly is maintained. Unprotected through penetrations shall not be permitted in roof assemblies required to be fire-resistance rated in accordance with Section 705.9.5 and shall comply with Section 714 for through penetrations of fire-resistance-rated horizontal assemblies.

Protect Penetrations Through Bearing Walls

- **IBC 2027 FS45-24 – Disapproved 10-1**
 - Proponent: Washington Association of Building Officials
- Adds requirement to protect penetrations through bearing walls.
 - **602.1 General.** Buildings and structures erected or to be erected, altered or extended in height or area shall be classified in one of the five construction types defined in Sections 602.2 through 602.5. The building elements shall have a fire-resistance rating not less than that specified in Table 601 and exterior walls shall have a fire-resistance rating not less than that specified in Table 705.5. Where required to have a fire-resistance rating by Table 601, building elements shall comply with the applicable provisions of Section 703.2. The protection of penetrations, openings, ducts and air transfer openings in building elements shall not be required unless required by other provisions of this code.
 - **714.4 Fire-resistance-rated walls.** Penetrations into or through fire walls, fire barriers, smoke barrier walls, ~~and~~ fire partitions, and bearing walls required to be rated by other provisions of this code shall comply with Sections 714.4.1 through 714.4.3. Penetrations in smoke barrier walls shall also comply with Section 714.5.4.

Membrane Penetration of 1 hr Rated Ceiling with Single 2x Top Plate

- **IBC 2027 FS49-24 – Approved as Submitted 6-5**
 - Proponent: Jeff Grove for SNC
- **Resubmitted from Previous Cycle** – Proposes new membrane penetration exception permitting the penetration of 1 hr floor-ceiling assemblies by single 2x wood top plate of walls sheathed with Type X gypsum board.
 - Section 714.5.2 Exception:
 - 8. The ceiling membrane of a maximum 1-hour fire-resistance-rated horizontal assembly is permitted to be interrupted with a single 2x wood top plate of a wall assembly that is sheathed with Type X gypsum wallboard, provided that all penetrating items through the top plate are protected in accordance with Section 714.5.1.1 or 714.5.1.2 and the ceiling membrane is tight to the top plates.
- Single top plate will not allow attachment of gypsum board to wall when anything more than one layer of Type C board is applied to floor-ceiling assembly.
- FCIA will be working with proponent on a Public Comment.

Membrane Penetration of Rated Floor-Ceiling by Luminaires

- **IBC 2027 FS50-24 – Approved as Submitted**
 - Proponent: Jon Roberts for UL
- Rewrites requirements for installing luminaires in ceiling of horizontal assemblies.
 - Removes sentence requiring T rating when installing membrane penetrations. This sentence is needed for other types of recessed fixtures (e.g. speakers)
- FCIA will be working with proponent on a Public Comment.

Correction of Air Leakage Requirements

- **IBC 2027 FS52-24 - New Concept – Approved as Submitted 11-0**
 - Proponent: Jon Roberts for UL, and Rich Walke, CTI
- Relocates air leakage requirements such that requirements apply to both vertical and horizontal smoke barriers.
 - ~~714.5.4~~714.5.6 **Penetrations in smoke barriers.** Penetrations in *smoke barriers* shall be protected by an approved *through-penetration firestop system* installed and tested in accordance with the requirements of UL 1479 for air leakage. The *L rating* of the systems measured at 0.30 inch (74.7 Pa) of water in both the ambient temperature and elevated temperature tests shall not exceed either of the following:
 1. 5.0 cfm per square foot ($0.025 \text{ m}^3 / \text{s} \times \text{m}^2$) of penetration opening for each *through-penetration firestop system*.
 2. A total cumulative leakage of 50 cfm ($0.024 \text{ m}^3 / \text{s}$) for all *through-penetration firestop systems* within any 100 square feet (9.3 m^2) of wall area, or floor area.

Delete BW Joint Systems Other Than Adjacent to Shafts

- **IBC 2027 FS-53-24 – Disapproved 12-0**
 - Proponent: Jeff Grove for SNC
- Deletes bottom of wall joint systems other than joints adjacent to shafts.
 - Section 715.3 Exception: *Fire-resistant joint systems* shall not be required for *joints* in the following locations:
 - 11. Between the bottom of a fire-resistance-rated wall and a floor or floor/ceiling assembly, unless the wall abuts two or more interconnected levels.

Delete Exception Allowing Unprotected Voids Between Curtain Wall and Rated and Non-rated Floors in Parking Garages

- **IBC 2027 FS56-24 – Disapproved 9-3**
 - Proponent: Tony Crimi for IFC
- Removes exception stating void between curtain wall and rated and non-rated floors and ramps in open and closed parking garages do not require protection by a perimeter fire containment systems or approved material.
 - Section 715.4 Exception: *An approved perimeter fire containment system shall not be required for voids in the following locations:*
 - ~~2. Floors and ramps within parking garages or structures constructed in accordance with Sections 406.5 and 406.6.~~
 - Section 715.5 Exception: *An approved material or system to retard the interior spread of fire and hot gases shall not be required for voids in the following locations:*
 - ~~2. Floors and ramps within parking garages or structures constructed in accordance with Sections 406.5 and 406.6.~~

Updates Perimeter Fire Containment Exception Allowing Floor-to-Ceiling Glazing

- **IBC 2027 FS57-24 – Approved as Submitted**
 - Proponent: Tony Crimi for IFC
- Changes the word “material” to “system” to imply this needs to be a test of a system and not just the approved material.
 - Section 715.1.4 Exception:
 - **Exception:** Voids created at the intersection of the exterior curtain wall assemblies and floor assemblies where the vision glass extends to the finished floor level shall be permitted to be protected with an approved ~~material~~system to prevent the interior spread of fire. Such ~~systems~~material shall be securely installed and capable of preventing the passage of flame and hot gases sufficient to ignite cotton waste through the void where subjected to ASTM E119 time-temperature fire conditions under a minimum positive pressure differential of 0.01 inch of water (2.49 Pa) for the time period not less than the fire-resistance rating of the floor assembly.

Use of Duct Wrap in Lieu of Dampers in Ducts Connecting Shafts

- **IBC 2027 FS68-24 – Disapproved 12-0**
 - Proponent: Tony Crimi for IFC
- Adds exception for use of duct wrap in lieu of dampers on ducts connecting shafts.
 - New Section 717.1.1 Exception:
 - Ducts that transition horizontally between shafts that penetrate fire resistance-rated walls without dampers where the surface of the duct is continuously covered on all sides from a point at which the duct penetrates a ceiling, wall or floor to the outlet terminal with a classified, listed and labeled material, system, method of construction or product specifically evaluated for such purpose, in accordance with nationally recognized standards for such enclosure materials and have a fire resistance-rating equal to the fire-resistance rating of the assembly being penetrated.

Special Inspections of Duct Wrap

- **IBC 2027 M40-24 – Disapproved 12-2**
 - Proponent: Tony Crimi for IFC
- Adds special inspection of factory protected grease ducts and grease ducts protected with a field applied duct wrap by an approved agency in accordance with a draft ASTM Standard.
 - **506.3.1 Special inspection and test requirements.** Commercial kitchen grease ducts serving Type I hoods conforming to the provisions of Section 506.3.11 that are listed and labeled to the requirements of 506.3.11.2 or 506.3.11.3 shall undergo special inspection by an approved agency in accordance with ASTM WK70806

Use of Duct Wrap in Lieu of Dampers in Ducts Connecting Three Floors or Less

- **IBC 2027 FS75-24 – Disapproved 12-0**
 - Proponent: Tony Crimi for IFC
- Proposes a duct may be penetrated three floors or less without a fire damper at each floor provided duct is protected with a protected with a listed system evaluated for such purpose.
 - New Section 717.6.1 Exception:
 - 2. A duct is permitted to penetrate three floors or less without a fire damper at each floor provided the surface of the duct is continuously covered on all sides from a point at which the duct penetrates a ceiling or floor to the outlet terminal with a classified, listed and labeled system specifically evaluated for such purpose in accordance with nationally recognized standards for such enclosure materials, and penetrations comply with the requirements of Section 714.5 of the International Building Code.

Fire-Resistance Rating on Corridor Walls in Sprinkled Schools

- **IBC 2027 E96-24 – Disapproved 14-0**
 - Proponent: Tony Crimi for IFC
- Proposes a 1 hr fire-resistance rating on Corridor Walls in Sprinkled Educational Occupancies.

TABLE 1020.2 CORRIDOR FIRE-RESISTANCE RATING

OCCUPANCY	OCCUPANT LOAD SERVED BY CORRIDOR	REQUIRED FIRE-RESISTANCE RATING (hours)	
		Without automatic sprinkler system	With automatic sprinkler system
H-1, H-2, H-3	All	Not Permitted	1 ^c
H-4, H-5	Greater than 30	Not Permitted	1 ^c
A, B, E,F, M, S, U	Greater than 30	1	0
E	All	1	1
R	Greater than 10	Not Permitted	0.5 ^c /1 ^d
I-2 ^a	All	Not Permitted	0
I-1, I-3	All	Not Permitted	1 ^{b, c}
I-4	All	1	0



ICC Group B Code Proposals - 2027 International Codes - Possible Proposals by FCIA



Leakage Through Duplex Separation Walls

- **2024 IBC RB63-22 - Approved**
 - Proponent: Jeff Shapiro
 - Rewrote requirements for duplex dwelling unit separations
 - Introduces language that “separations shall be constructed in a manner that limits transfer of smoke, such as solid lumber, self-closing door openings, sealed penetrations and other approved methods that inhibits air flow.”
- **Should “sealed penetrations” require L Rating?**
- Likelihood of overturning recent action is low – so MODIFY!
- International Firestop Council??

Penetrations Through Townhouse Common Wall

- **2024 IBC RB55-22 Disapproved**
 - Proponent: Code Official - Washington
 - Proposed new exception permitting mechanical and plumbing penetrations through townhouse common wall
 - Such penetrations are not currently prohibited
 - Such penetrations are required to be firestopped
- **Is further clarification required?**
 - Suggest Gypsum Association & International Firestop Council pursue ...



NFPA 101/5000 Code Proposals - 2027 NFPA Codes - Possible Proposals by FCIA



Inventory – IFC – NO ACTION

- **IFC 2018**; Section 701.6 Owner responsible, maintain inventory of all fire-rated and smoke-rated construction
 - **Key requirement - documentation** of fire and smoke rated construction
 - Annual Visual Inspection – ACCESSIBLE
 - Also requires **documentation when system visually inspected and or repaired with a system.**
 - ***SURVEY NOT = ASTM E2174 / ASTM E2393 Inspection***



Inventory – NFPA 1, NFPA 101 - ACTION

- **NFPA 1 – Develop Survey Form for NFPA 1 Annex...**
- **NFPA 1 –**
 - ‘Documentation’ by Reference from...??
 - Inventory
 - Manufacturers Instructions & Listings
- **NFPA 1 ANNEX**
 - Visual Inspection/Survey requirement but no inventory requirement
 - Visual Inspection/Survey frequency reduced from every 5 years to 3 years



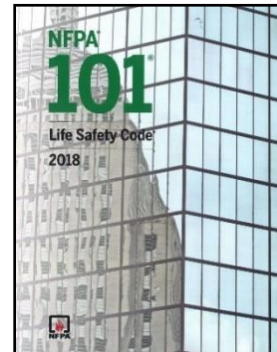
Periodic Inspections

International Fire Code & NFPA 1 – ACTION?

- **IFC 2018** - Annual inspections of through-penetration firestop systems in ALL buildings
 - Owner required to maintain an inventory
 - Where the system design number is known – inspect to listing criteria and manufacturers instructions
- ***NFPA 1*** revise to require inspections every year?
 - *Frequency of NFPA 1 to every year?*
- ***Keep IFC every year?***
- ***Should NFPA 1, IFC be the same??***
- ***Conclusion – Leave alone at 3 years...***

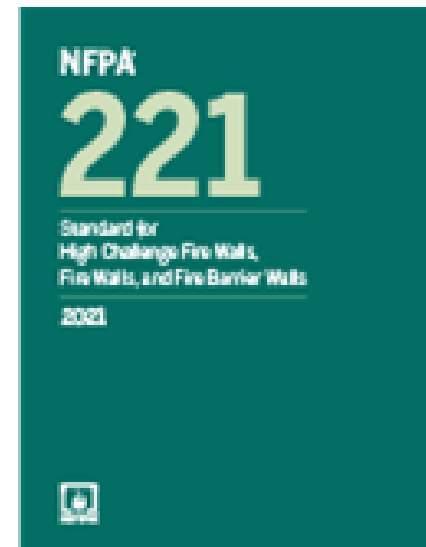
Special Inspections – Quality Assurance ACTION

- **Add Special Inspection to NFPA 101??**
 - Special Inspection mandated in NFPA 1, **Chapter 12 – FCIA/Koffel**
 - Special Inspection MENTIONED in NFPA 101 Annex
 - Special Inspection not mandated in NFPA 101 for any building feature



Qualified Contractors Part 2 – NFPA ACTION

- *Focus on new buildings and additions*
- **Alternative Ways to get Contractor Programs Required...**
 - **NFPA 221**
 - Addresses fire walls and fire barriers
 - **Already a reference document in IBC, NFPA 1, and NFPA 101**



Questions??



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Thanks for Attending!!!

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