

The Associations

Fire-Resistance

The Mission

The Vision

Bill McHugh
FCIA & NFCA Executive Director
Bill@FCIA.org
Bill@NFCA-online.org



National Fireproofing
Contractors Association



**Housekeeping....
Fire Exits??**



Thanks Members...

Firestop Contractors

Manufacturers, Consultants

Distributors, Reps, Friends

FCIA & NFCA Board of Directors



Thanks Attendees !!



Thanks AD Sponsors !!



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- Engineering Judgements
 - Structural Fire Protection and Firestopping
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- Building Code Analysis
- Field Testing
- Product Development and Testing

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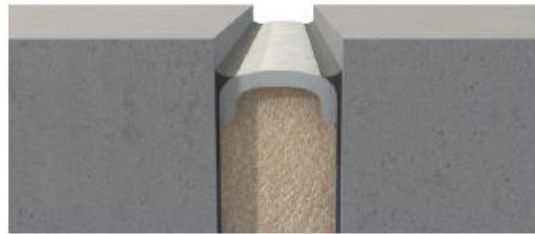
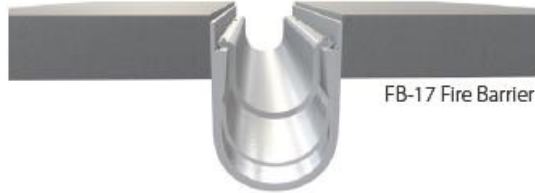
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Welcome





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Ken Slama, Chair

Corey Beckett

Arturs Gavrilovs

Dwayne McDonald

Retired Advisor:

Jim Smiley

NFCA Canada Committee

Nikita Gordon, Chair

Don Armand, Chair

Don Falconer

Arturs Gavrilovs



FCIA BOARD OF DIRECTORS LEADERSHIP OVER DECADES





Mission

*FCIA Members are global experts
and providers of life safety passive
fire and smoke protection systems.*



Vision



Focus on Life Safety through....

- *Integrity*
- *Passion*
- *Engagement*
- *Action*



FCIA – Firestop Contractors International Association

- **Info@FCIA.org** for **FREE Webinars, Manual of Practice**
- **Info@FCIA.org** **FREE Life Safety Digest**
- **UL/ULC Qualified Firestop Contractors**
- **FM 4991 Contractor Program**
- **IAS AC 291 Inspection Agency
Accreditation Program**
- **ASTM Inspection Standards – E2174, E2393**
- **Tools @ FCIA.org – FRENCH SPEC & MORE**
- **Firestop Education Program...**



FCIA Actions –

- ***NEW Education for Careers in Firestopping!!***
- ***FCIA's Firestop Education Program (FEP)***
 - ***3.5 Hours Level 1***
 - ***16.5 Hours Level 2***
 - ***4.0 Hours Level 3 – READY & OPEN!***
 - ***ADMIN Module – UNIQUE TO FCIA!***
- ***30 Hours = Education & Exams –***
 - ***Members – Unlimited Subscription***
 - ***Non-Members – Visit FCIA.org***

FCIA – Firestop Contractors International Association

- **Canada – Symposiums, National Presence, NBCC, NFC**
- **Qatar - Doha FCIA Symposium; Members**
- **India - Mumbai/Ahmadabad – Fire Safe Build India – IIT-G**
- **UAE - Dubai – FCIA Symposium; Civil Defence**
- **Saudi Arabia - Riyadh – BIG5 Show; UL, ICC, TBWIC**
- **Mexico/LATAM - CONAPCI/AMRACI**
- **Australia/New Zealand – FPA, Etc.**



FCIA's 2020-2025 Proposals – National Building Code of Canada

- **Add “Breach” Term to the Code...APPROVED**
- **Change “Fire Stop to “Firestop” ...APPROVED**
- **45 minute Fire-Resistance - ROOFS**
- **Firestop Installation Standards**
 - ULC Qualified Firestop Contractors or FM 4991 Approved Contractors
 - **DISAPPROVED 2020 ... 2025??**
- **Firestop Inspection -**
 - ASTM E2174 and ASTM E2393 Standards for On-Site Firestop Inspection
 - **DISAPPROVED 2020 – “No Objective??” 2025??**
- **Annual Visual Inspection – DISAPPROVED 2020, 2025??**

Firestopping & Compartmentation for Safety

NEW SECRETARIAT

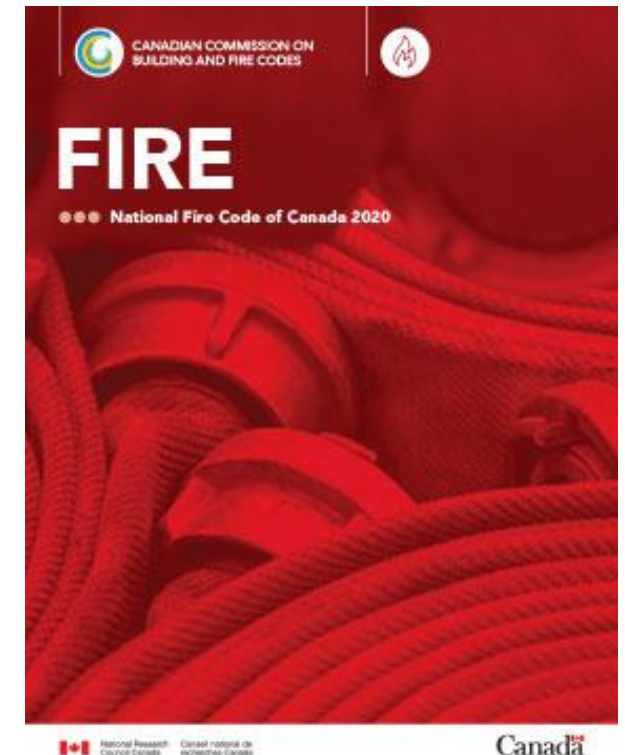
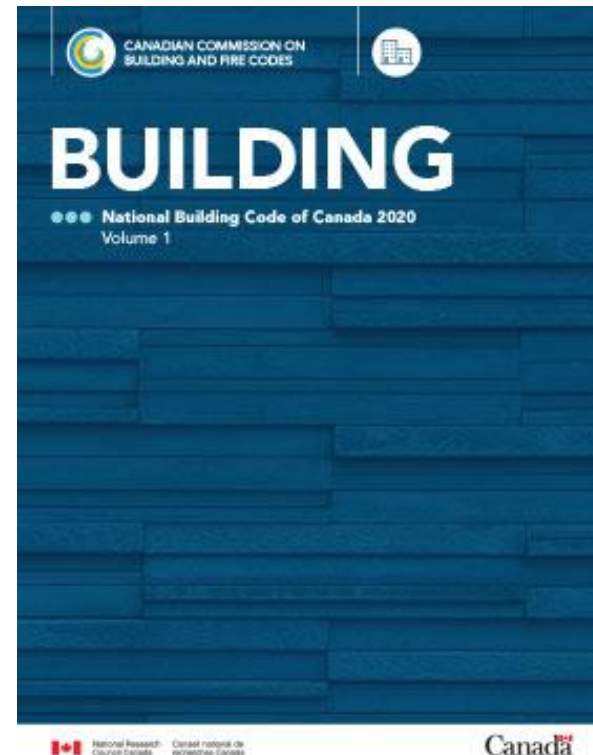
The Canadian Commission on Building and Fire Codes (CCBFC):

- **Canadian Board for Harmonized Construction Codes (CBHCC)**
 - Regulators, construction industry & public interest on committees
 - 2020 NBC/NFC Codes
 - 2025 Cycle Underway...

Same Committees for 2025..

New governance for future...

Codes = Minimum Legal Build...



D-DESIGN

Specs, Code, Standards
First....Fire Separation Mgt.

**M - Fire Separations
BARRIER MANAGEMENT**

Fire Codes
NFPA 101, 1, IFC

**QUALITY
PROCESS**

I-INSTALLATION

MS Programs AND
Mfr. Education

I – INSPECTION

IBC Ch. 17
NFPA 80
NFPA 1

Firestopping, Compartmentation & Structural Fire-Resistance for Safety

- **Total Fire Protection Stats...*North America***
- ***Approx. 11,025 20 story + Tall Buildings,***
- ***70% in NY, SF, LA, CHI, HI, Toronto...***
- ***Compartmentation Primary...6 Cities' Buildings***
 - ***Older Construction Methods***
 - ***Earthquakes***
 - ***Sprinklers, Alarms added later***

• *Source, Emporis.com*

Firestopping, Compartmentation & Structural Fire-Resistance for Safety

- NIST NCSTAR 1A, report for WTC towers I & II
- World Trade Center 7 - Recommendation C
- *'the need for redundancy in fire protection systems that are critical to life structural integrity';*
- *'...and the active sprinkler system each provide redundancy for maintaining structural integrity in a building fire, should one of the systems fail to perform it's intended function.'*
- *'the ability of the structure and local floor systems to withstand a maximum credible fire scenario, without collapse, recognizing that sprinklers could be compromised, not operational, or non existent.'*

**The Associations
Fire-Resistance
The Mission
The VISION**



2023/2024 NFCA Board of Directors

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1 st V. P.	Steve Winston, American Coatings Corp., Ashland, VA
2 nd V. P.	Nikita Gordon, Gunnlaugson spray-On (2010) Ltd, Winnipeg, MB
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Mission

The NFCA promotes the fireproofing industry including contractors, inspection agencies, manufacturers, providing education and advocacy resulting in high quality, passive fire protection for building elements and assemblies for life safety.



National Fireproofing
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Vision

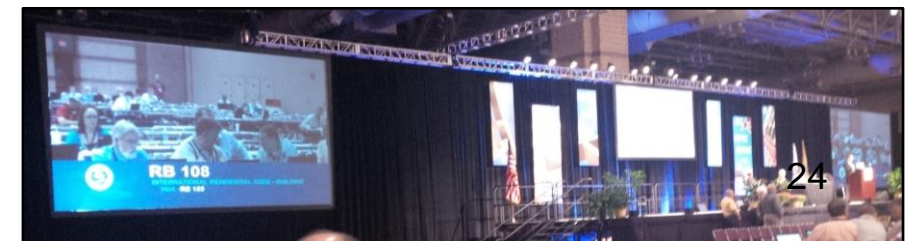


The NFCFA works to improve the proper use and application of fireproofing products through development of standard practices and educational programs for the industry.



What does NFCA Do?

- NFCA @ ICC Codes...
 - 2021/2024/2027 SFRM/IFRM/Board Proposals...
- NFCA @ ASTM Task Groups - Fireproofing
- NFCA @ NFPA Fire Protection Features
- NFCA @ National Building Code Canada
- NFCA @ American Institute of Steel Construction & American Iron and Steel Institute (Soon CISC/ICCA)
- Industry Articles
 - Thermal Barriers, Patching, more...
- NFCA @ SFPE/ASCE Meetings
- NFCA Committee ACTIONS



What Does NFCA Provide?

- **Fireproofing Education & Exams**
 - World-Class SFRM & IFRM Fireproofing Instruction
- **NFCA Contractor Accreditation Program for IFRM & SFRM**
 - Educated fireproofing Companies
- **NEW UL Qualified Fireproofing Contractor Program**
- **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 Website** to find Fireproofing Leaders – NFCA-online.org

NFCA @ Fire Safe Build India, Big 5....



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I'M SPEAKING



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Firestop Contractors International Association
National Fireproofing Contractors Association



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www.fsbi.in

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09 10 11 FEBRUARY, 2023

JIO World Convention Centre, Mumbai
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Scan the QR code to Register for FSBI 2023

NFCA in Action!

• Standards Development & Other Relationships

• NFCA @ ASTM

- SFRM – IFRM
- Boards/Wraps Inspection Standards
- ASTM E119 – Fire Tests

• NFCA @ UL/ULC

- ULC STP ULC-S101 Fire Tests
- UL STP 263 Fire Tests
- Others



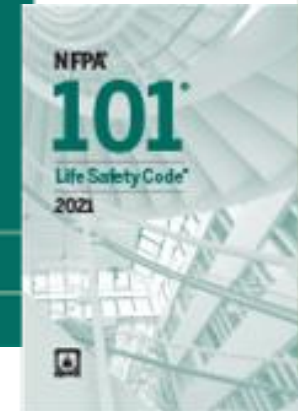
Donalco Western Photo



Beyond Thermal Photo

NFCA's in Action!

Codes



NFCA Handbook of Accepted Fireproofing Knowledge (HAFK)



- Study Resource for 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 Contractor Accreditation Program

- **NFCA LIVE & VIRTUAL EDUCATION / EXAMS**
 - Contractor DRI Designated Responsible Individual
 - Inspection Agency Competence
 - Focus on Fire-Resistance & Fireproofing
- **NFCA Contractor Accreditation Program**



IFRM Accredited Contractor



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SFRM Accredited Contractor



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UL Qualified Fireproofing Contractor Program

- **NFCA DRI REQUIRED**
- **Management System (MS)**
- **Audited**
 - **Contractor's Office**
 - **Jobsite**
- **Several Contractors in Process....**

UL Qualified Spray-Applied Fire Resistive Material (SFRM) Contractor Program requirements

Mark Integrity Program

Introduction:

This document outlines the contractor company requirements for participation in the UL Qualified Spray-Applied Fire Resistive Material (SFRM) Contractor Program.

The SFRM installation industry serves residential, institutional, commercial and industrial structures. The industry addresses the need to limit the damaging effects of fire by insulating structural building elements from fire. SFRMs help horizontal assemblies including floor/ceiling, roof/ceiling and building elements such as beams and columns obtain fire endurance ratings. SFRM contractors install certified SFRMs to establish a protective system for a structure to protect fire and life safety and comply with specification and customer requirements.

In order for a SFRM installation contractor organization to qualify for UL's SFRM Contractor Program, the contractor organization shall employ a knowledgeable individual who successfully demonstrates their competency to UL through successful completion of the Designated Responsible Individual (DRI) program at a contractor company that has been recognized in the NFCA Contractor Accreditation Program (CAP).

The company that enrolls in the UL Qualified SFRM Contractor program also has to establish, implement and maintain a management system focused on the application of SFRMs. A management system is used to describe the contractor's SFRM operations.

The Management System approach requires the Contractor

may be determined by the construction documents that have had final approval by code authorities. Where special inspection is implemented, the AHJ ultimately determines the acceptability of the installation.

Because the SFRM contractor firm's selection and installation of SFRMs to requirements relies on staff knowledge, the UL Qualified SFRM Contractor Program requires at least one individual employed by the Contractor organization to be designated as a Designated Responsible Individual (DRI) who has demonstrated his/her knowledge via examination and meets other related requirements defined in this document.

Definitions

Authority Having Jurisdiction (AHJ) — The organization, office or individual responsible for implementing the adopted code. This is typically the building official or fire marshal, or another governmental agency who may also be the final authority signing the "Certificate of Occupancy Permit".

Certificate — The SFRM Contractor Certificate. This is a document issued after an audit has been completed, and conformance to all UL Qualified SFRM Contractor Program Requirements has been determined. The Certificate is valid until Dec. 31 of the following year from which the certificate was issued.

Continuing Education Unit (CEU) — For purposes of awarding CEU credit, the International Association of Continuing Education and Training (IACET) definition will be used for those individuals involved in the UL Qualified SFRM Contractor Program as follows: One (1) CEU is equal to 10 contact hours of participation in an organized continuing

What Makes Fire Resistance?

UL 263 & ASTM E119 – The Details....

NFCA [Fireproofing Contractors](#) install passive fireproofing products such as Sprayed Fire-Resistive Material (SFRM) and Intumescent Fire-Resistive Material (IFRM), Boards and Wraps, to protect building structural materials from fire, as required by building codes, and the [manufacturers](#) and [associates](#) who provide those products. NFCA represents the fireproofing industry - [manufacturers](#), [equipment](#), [inspection](#) and [installation](#). Looking for a [NFCA Accredited Fireproofing Contractor](#) or [UL Qualified SFRM Contractor](#) ? Visit NFCA's [Member Lists!](#)

About

The NFCA represents [fireproofing contractors](#) and [manufacturers](#), [equipment suppliers](#), [inspection agencies](#), who install, inspect or provide passive fire protection for structures as required by building codes for the preservation of life

News/Events

NEW FOR 2022 - [FREE NFCA Fire-Resistance Webinar Recording](#). Contractors, inspection agencies, code officials, specifiers, fire inspectors get a detailed look at structural fireproofing. Check out fireproofing 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](#)

NFCA Membership

Welcome New Branch Contractor Interim Member

PCI - [Phoenix Interior](#)

[Not a member?](#)

NFCA's Accomplishments

- **Membership Expansion & NFCA CAP, UL/ULC**
 - North America – USA, Canada, Mexico
 - Middle East
 - India



NFCA Upcoming Educational Events



- **NFCA Free Webinar Series**
- **NFCA VIRTUAL Education for CAP AND UL DRI's – Aug. 21-23**
- **NFCA @ Fire Resistance Symposium CANADA**
 - Sept. 20-22 - Ottawa, Ontario, Canada
 - <https://www.fcia.org/Events/Conferences-Symposiums>
- **NFCA 2024 Week of Learning**
 - April 17-19 - Ft. Worth, TX - Fireproofing Educational Conference
 - April 15-17 - NFCA Education & Exams for DRI's in CAP, Inspectors, Ft. Worth, TX

Watch www.NFCA-online.org

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



- ***RECRUIT A NEW MEMBER Contractor, Inspection Agency...***

The Associations

Fire-Resistance

The Mission

The Vision

Bill McHugh
FCIA & NFCA Executive Director
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Bill@NFCA-online.org



Facility Maintenance Budget Line Items...

Questions you ask...do you maintain???

- Fire-Sprinklers, Pumps, etc... **YES**
- Fire-Detection & Alarms... **YES**
- Fire Separations / Barriers? – **WHAT?**
 - Walls and Floors
 - Firestopping
 - Fire Dampers
 - Fire Doors – Rolling/Swinging
- **OPEN DOOR&LOOK UP!**

What is a Firestop System?

- Firestop Sealant?
- Firestop Products??
- Fire-Resistance-Rated Floors, Walls?
- Manufacturer's Product Data Sheets?
- Manufacturers Sell Sheets
- Safety Data Sheets?
- ULC Listings?

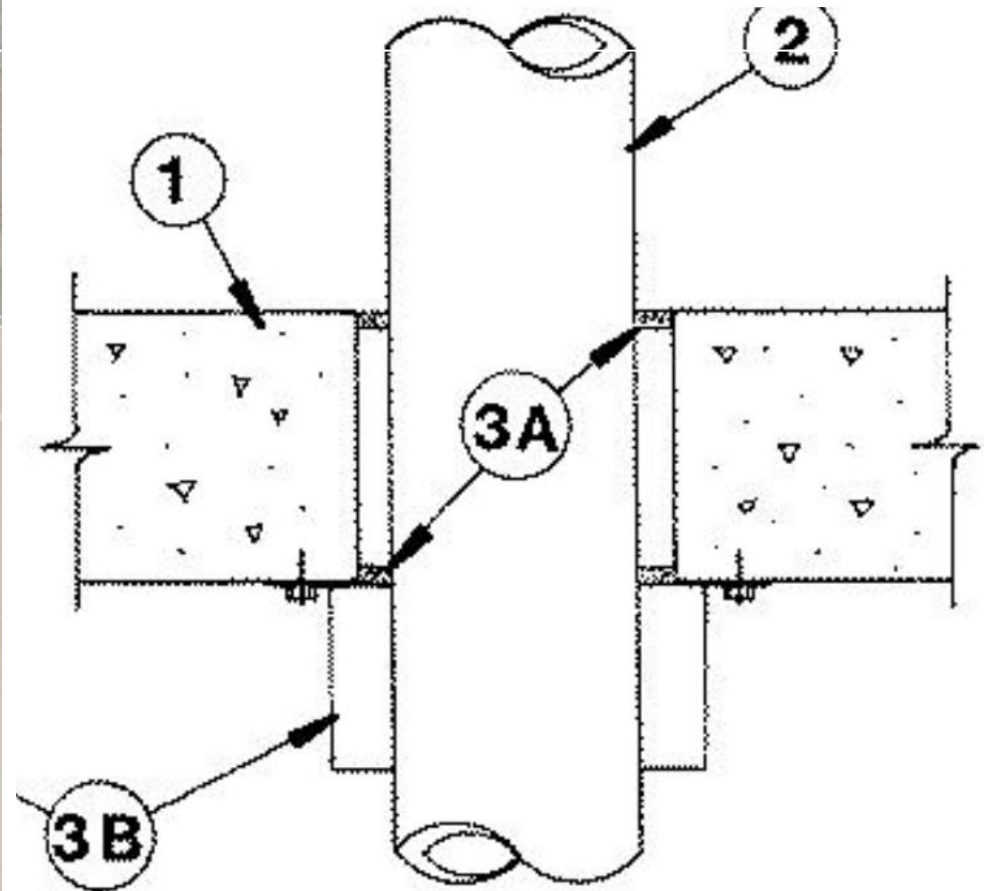
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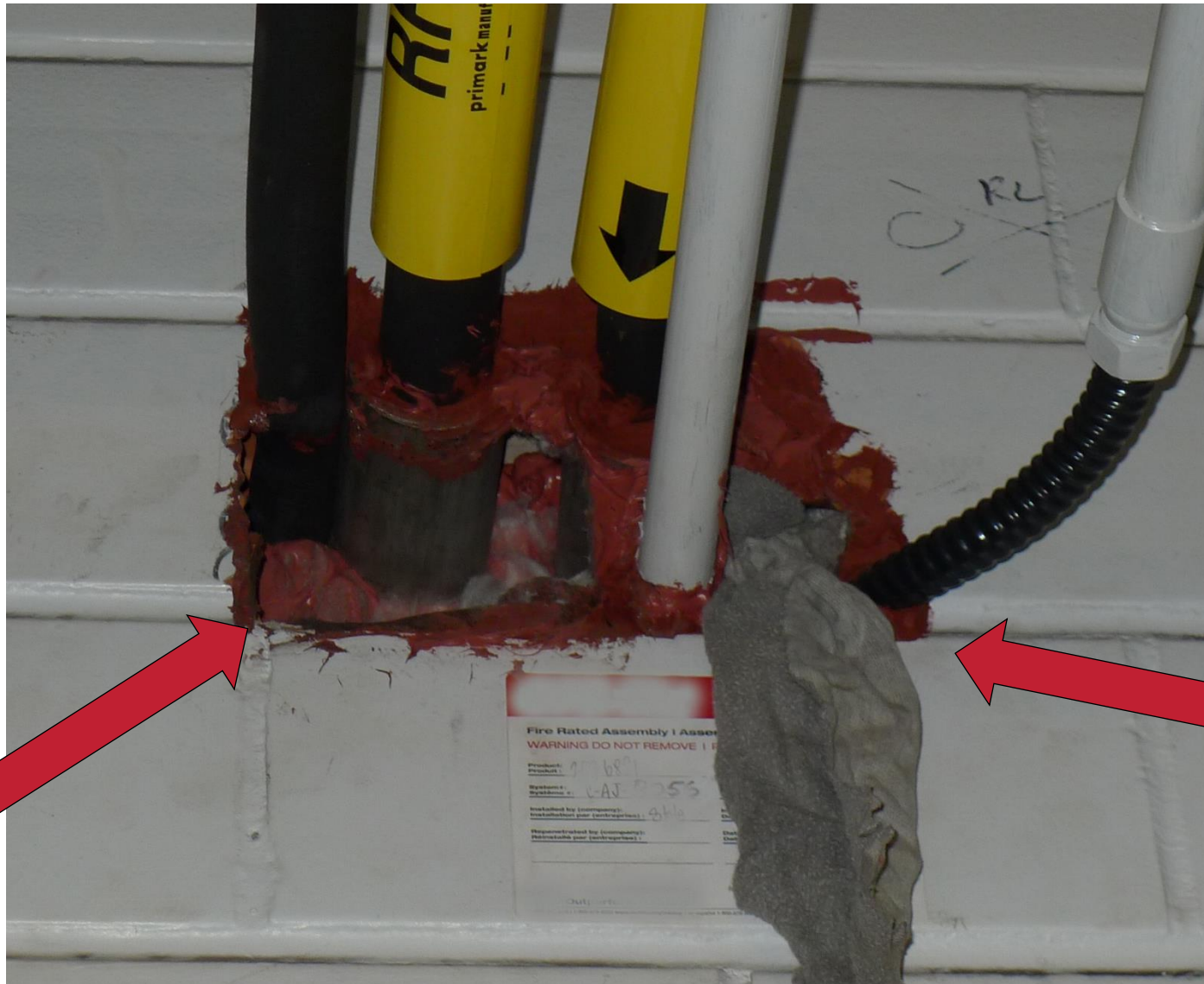
C-AJ-2038

<https://iq.ulprospector.com/en/profile?e=173569>



What's wrong with this picture?

Sleeve?
Rags?
No Sealant?



D. Falconer Photo

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SYMPOSIUM**

**20-22
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Structural Fire Resistance, Fire- Separations, Firestopping & Code Requirements

**Rich Walke, CTI
Consultant to
FCIA/NFCA**

&

**Bill McHugh,
NFCA & FCIA ED**



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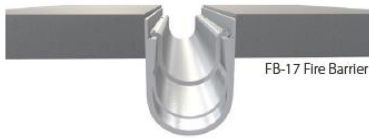
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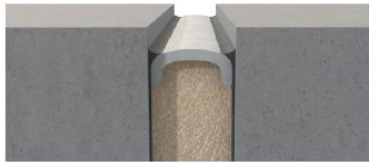
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FB-17 Fire Barrier



HFR-100 Fire Barrier

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NRC & Structural Fire-Resistance

Andre LaRoche, NRC



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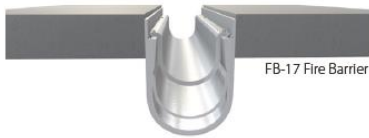


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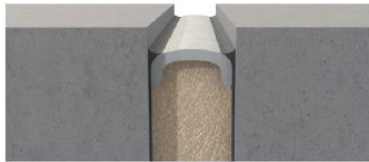
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Fire-Resistance Installation & Inspection

Brian Bray, ULC Solutions



Bill McHugh, FCIA/NFCA



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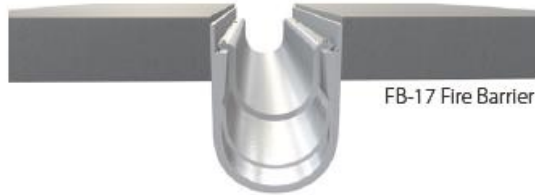


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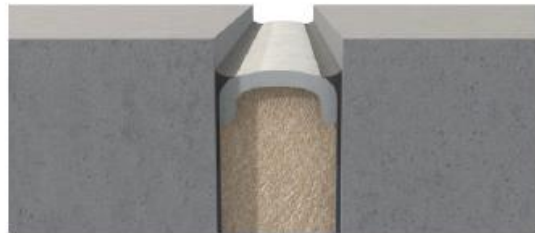
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FCIA Platinum “PLUS” Spotlight

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FCIA PLATINUM PLUS SPOTLIGHT



Eric DeAmorim, STI National Sales Manager



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Perimeter Fire Containment

Rich Walke, CTI



Kevin Hyland, UL Solutions



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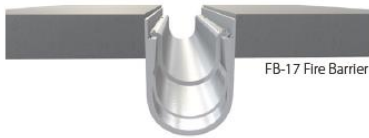
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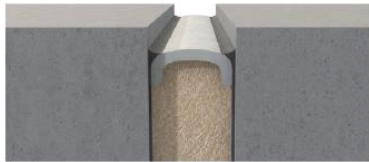
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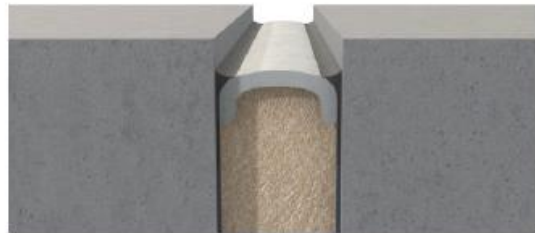
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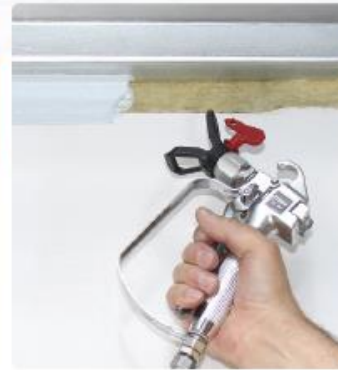
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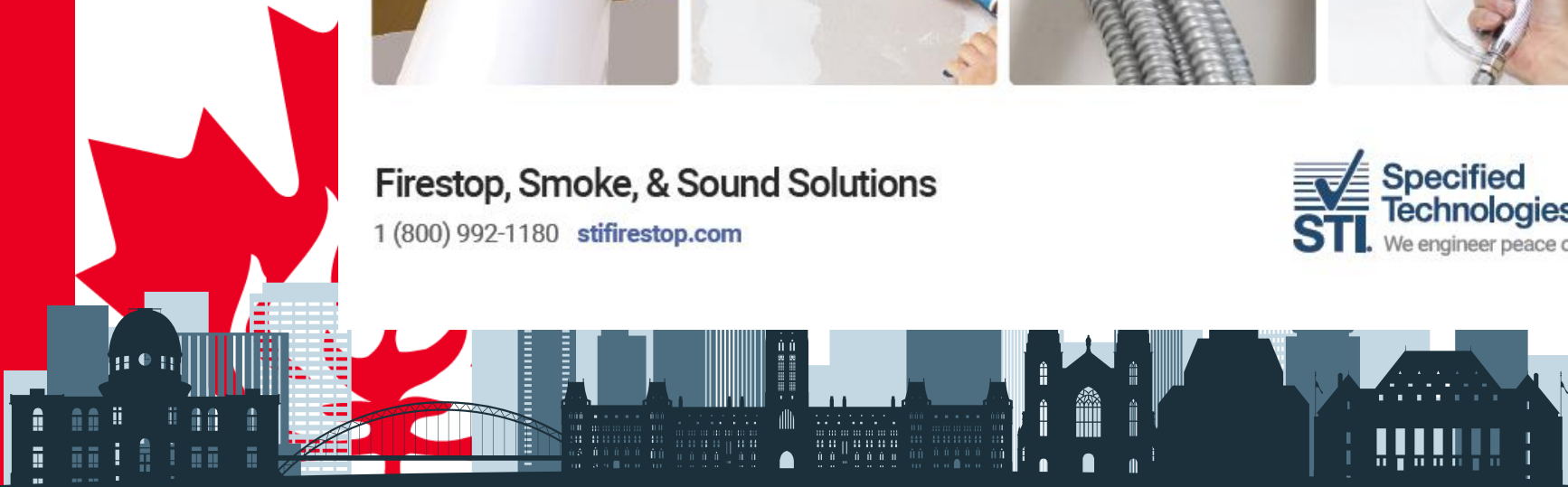


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- Firestop Products??
- Fire-Resistance-Rated Floors, Walls?
- Manufacturer's Product Data Sheets?
- Manufacturers Sell Sheets
- Safety Data Sheets?
- ULC Listings?