



Commercial  
Construction  
Consulting, Inc.

# Code Considerations for Interiors

**CODES COMMITTEE PRESENTATION  
FEBRUARY 17, 2021**

**Presented by Jenna Troio, Kelly Knopp & Adam Macsata**

313 Congress Street Boston, MA 02210 617.330.9390 617.330.9383 fax  
[www.c3boston.com](http://www.c3boston.com)

# C<sup>3</sup> Services:

- ◆ MEP / FP Engineering
- ◆ Due Diligence
- ◆ Construction Management
- ◆ Owner's Representatives
- ◆ Development Advisory
- ◆ Code Advisory
- ◆ Building Envelope



# Introductions



**Jenna Troio, EIT**  
Fire Protection Engineer/Code  
Consultant



**Kelly Knopp**  
Fire Protection Engineer/Code  
Consultant



**Adam Macsata, EIT**  
Fire Protection Engineer/Code  
Consultant



B.S. Chemical Engineering  
M.S. Fire Protection Engineering

# Learning Objectives

- ◆ Applicable code review
- ◆ Understand building/fire code interior finish requirements
- ◆ Review BFD FF&E requirements and application process
- ◆ Recognize changes in the state law pertaining to banned fire retardant chemicals

# Introduction: Why Bother?

- ◆ Laws
- ◆ Codes
- ◆ Standards
- ◆ Referenced Standards
- ◆ Amendments

# Laws

## ◆ Two types

- Laws which grant authority
- Laws which control

### M.G.L. Chapter 143 Section 93

Section 93: State board of building regulations and standards; establishment

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Section 93. There is hereby established within the division of professional licensure a board to be known as the state board of building regulations and standards, in this section and in sections ninety-four to one hundred, inclusive, called the board. The board shall adopt and administer a state building code. The board shall consist of eleven members, one of whom shall be the state fire marshal, or his designee, one of whom shall be the commissioner of the division of professional licensure or his designee, both of whom shall serve ex-officio and shall be voting members of the board, and nine persons to be appointed by the governor, one of whom shall be a registered architect, one of whom shall be a registered professional engineer who is a mechanical engineer, one of whom shall be a registered professional engineer who is a structural engineer, one of whom shall be a representative of the building trades, one of whom shall be a general contractor of commercial or industrial buildings, one of whom shall be a building contractor of one or two-family homes, one of whom shall be a head of a local fire department, one of whom shall be an inspector of buildings in a town and one of whom shall be an inspector of buildings in a city. Organizations representing the appropriate constituencies shall submit names of persons for appointment as members to the board. Each member shall be appointed for a term of five years, except that in making his initial appointments, the governor shall appoint one member for one year and two members to serve for two, three, four and five years respectively, as he may designate. Any person appointed to fill a vacancy shall serve only for the unexpired term. Any member shall be eligible for reappointment. Any member of the board may be removed by the governor for cause, after being given a written statement of the charges and an opportunity to be heard thereon. No member shall act as a member of the board or vote in connection with any matter as to which his private right, distinct from public interest, is concerned.

### M.G.L. Chapter 148 Section 26G

Section 26G: Automatic sprinkler systems required for buildings and structures totaling more than 7,500 gross square feet

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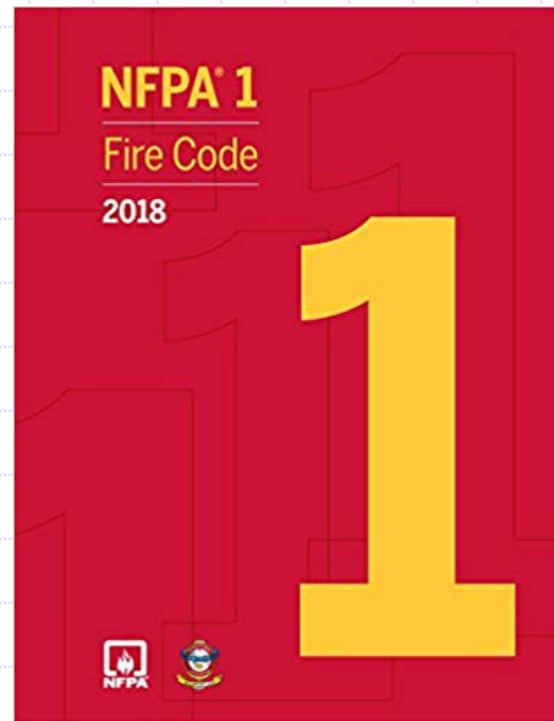
Section 26G. Every building or structure, including any additions or major alterations thereto, which totals, in the aggregate, more than 7,500 gross square feet in floor area shall be protected throughout with an adequate system of automatic sprinklers in accordance with the provisions of the state building code. No such sprinkler system shall be required unless sufficient water and water pressure exists. For purposes of this section, the gross square footage of a building or structure shall include the sum total of the combined floor areas for all floor levels, basements, sub-basements and additions, in the aggregate, measured from the outside walls, irrespective of the existence of interior fire resistive walls, floors and ceilings. This section shall not apply to buildings used for agricultural purposes as defined in section 1A of chapter 128.

# Codes

◆ Tell you what to do



International Code Council



National Fire Protection Association

# Relevant Codes

## ◆ ICC

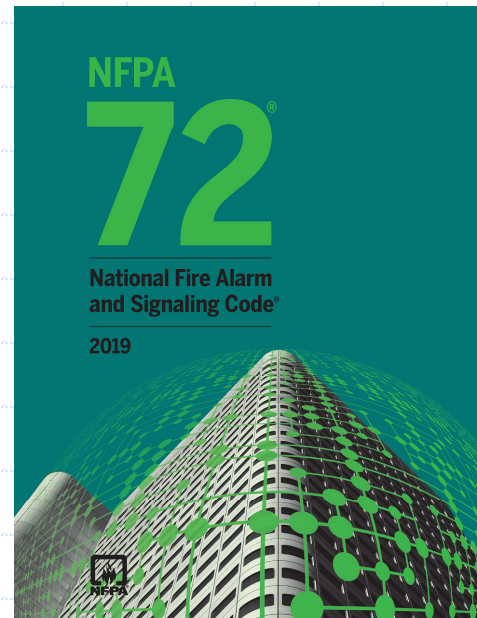
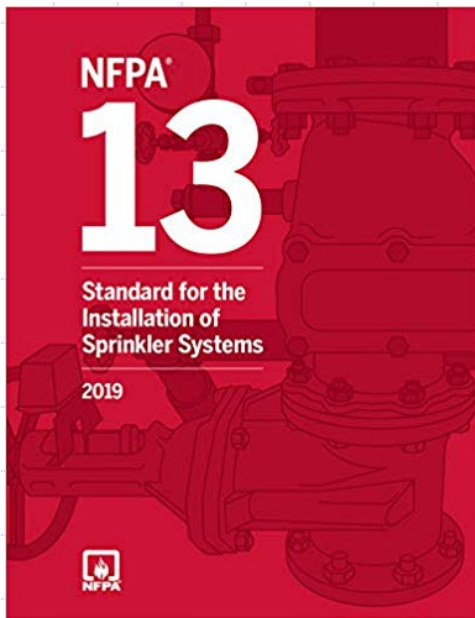
- Building
- Existing Building
- Plumbing
- Mechanical
- Energy Conservation
- Residential

## ◆ NFPA

- 1 – Fire Code
- 70 – National Electrical Code
- 101 – Life Safety Code (not in MA)

# Referenced Standards

◆ Tell you how to do it



# 780 CMR: MA State Building Code

- ◆ Comprised of:
  - International Building Code, 2015 (with MA amendments)
  - International Existing Building Code, 2015 (with MA amendments)



# Referenced Standards

## CHAPTER 35

### REFERENCED STANDARDS

This chapter lists the standards that are referenced in various sections of this document. The standards are listed herein by the promulgating agency of the standard, the standard identification, the effective date and title, and the section or sections of this document that reference the standard. The application of the referenced standards shall be as specified in Section 102.4.

#### NFPA

National Fire Protection Association  
1 Batterymarch Park  
Quincy, MA 02169-7471

Standard reference number	Title	Referenced in code section number
10—13	Standard for Portable Fire Extinguishers . . . . .	906.2, 906.3.2, 906.3.4, Table 906.3(1), Table 906.3(2)
11—10	Standard for Low Expansion Foam . . . . .	904.7
12—11	Standard on Carbon Dioxide Extinguishing Systems . . . . .	904.8, 904.11
12A—09	Standard on Halon 1301 Fire Extinguishing Systems . . . . .	904.9
13—13	Installation of Sprinkler Systems . . . . .	708.2, 903.3.1.1, 903.3.2, 903.3.8.2, 903.3.8.5 904.11, 905.3.4, 907.6.4, 1019.3
13D—13	Standard for the Installation of Sprinkler Systems in One- and Two-family Dwellings and Manufactured Homes . . . . .	903.3.1.3
13R—13	Standard for the Installation of Sprinkler Systems in Low Rise Residential Occupancies . . . . .	903.3.1.2, 903.3.5.2, 903.4
14—13	Standard for the Installation of Standpipe and Hose System . . . . .	905.2, 905.3.4, 905.4.2, 905.6.2, 905.8
16—15	Standard for the Installation of Foam-water Sprinkler and Foam-water Spray Systems . . . . .	904.7, 904.11
17—13	Standard for Dry Chemical Extinguishing Systems . . . . .	904.6, 904.11
17A—13	Standard for Wet Chemical Extinguishing Systems . . . . .	904.5, 904.11
20—13	Standard for the Installation of Stationary Pumps for Fire Protection . . . . .	913.1, 913.2.1, 913.5
30—12	Flammable and Combustible Liquids Code . . . . .	415.6, 507.8.1.1.1, 507.8.1.1.2

# MA Amendments

## ◆ State-specific changes to codes and standards

780 CMR: MASSACHUSETTS AMENDMENTS TO THE *INTERNATIONAL BUILDING CODE 2015*

### CHAPTER 9: FIRE PROTECTION SYSTEMS

901.1 Add four notes as follows:

**Note 1:** In subsections 904.2, 907.1.1, 909.7, 909.8, 909.9, 909.10, 909.19, the term “fire official” or “building official” is to be substituted with the terms “building official in consultation with the fire official”. The fire official may appeal a building official action in accordance with 780 CMR 1.00: *Scope and Administration (Unique to Massachusetts)*.

**Note 2:** In subsection 903.1.1, the term “fire code official” is to be substituted with the term “building official and fire official”.

**Note 3:** In subsections 916.1 through 916.6.3, the term “fire code official” is to be substituted with the term “fire official”.

**Note 4:** Reference to the IFC shall be applied in accordance with 780 CMR subsection 101.4.5.

# Interior Finish Requirements

- ◆ Building Code (780 CMR)
- ◆ Fire Code (527 CMR)
- ◆ Boston Fire Prevention Code

# 780 CMR 8.00: Interior Finishes Definitions

- ◆ Interior finish: includes interior floor finish and interior wall and ceiling finish
- ◆ Interior floor finish: the exposed floor surfaces of buildings including coverings applied over a finished floor or stair, including risers

# Definitions

- ◆ Interior wall and ceiling finish: the exposed interior surfaces of buildings, including but not limited to:
  - Fixed or movable walls and partitions, toilet room privacy partitions;
  - Columns;
  - Ceilings; and
  - Interior wainscoting, paneling or other finish applied structurally or for decoration, acoustical correction, surface insulation, structural fire resistance or similar purposes, but not including trim

# Definitions

- ◆ Decorative materials: Anything applied over the building interior finish for decorative, acoustical or other effect (such as curtains, draperies, fabrics, streamers and surface coverings), and all materials utilized for decorative effect (such as batting, cloth, cotton, hay, stalks, straw, vines, leaves, trees, moss and similar items), including foam plastics and materials containing foam plastic.
  - Does not include floor coverings, ordinary window shades, interior finish and materials 0.025 inch (0.64 mm) or less in thickness applied directly to and adhering tightly to a substrate
  - MA Amendment: 780 CMR defers to 527 CMR for "decorative materials".

# Name That Object – Interior Finishes

Decorative material

Wall finish

Trim



Floor finish

Wall finish

# Decorations

- ◆ Decorations: All materials such as scenery, plastic shields, streamers, and also cloth, cotton batting, straw, vines, leaved, trees and moss used for decorative effect, bamboo and other wood fibers, cardboard and other paper



# 780 CMR 8.00: Interior Finishes

## ◆ Wall/Ceiling Finish Classifications:

- Class A: flame spread 0-25
- Class B: flame spread 26-75
- Class C: flame spread 76-200
- All: smoke developed 0-450

## ◆ Floor Classification:

- Class I: critical radiant flux not less than  $0.45 \text{ W/cm}^2$
- Class II: critical radiant flux not less than  $0.22 \text{ W/cm}^2$

# Interior Finish Requirements, Walls (780 CMR)

**TABLE 803.11  
INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY<sup>k</sup>**

GROUP	SPRINKLERED <sup>l</sup>			NONSPRINKLERED		
	Interior exit stairways, interior exit ramps and exit passageways <sup>a, b</sup>	Corridors and enclosure for exit access stairways and exit access ramps	Rooms and enclosed spaces <sup>c</sup>	Interior exit stairways, interior exit ramps and exit passageways <sup>a, b</sup>	Corridors and enclosure for exit access stairways and exit access ramps	Rooms and enclosed spaces <sup>c</sup>
A-1 & A-2	B	B	C	A	A <sup>d</sup>	B <sup>e</sup>
A-3 <sup>f</sup> , A-4, A-5	B	B	C	A	A <sup>d</sup>	C
B, E, M, R-1	B	C	C	A	B	C
R-4	B	C	C	A	B	B
F	C	C	C	B	C	C
H	B	B	C <sup>g</sup>	A	A	B
I-1	B	C	C	A	B	B
I-2	B	B	B <sup>h, i</sup>	A	A	B
I-3	A	A <sup>j</sup>	C	A	A	B
I-4	B	B	B <sup>h, i</sup>	A	A	B
R-2	C	C	C	B	B	C
R-3	C	C	C	C	C	C
S	C	C	C	B	B	C
U	No restrictions			No restrictions		

# Interior Finish Requirements, Walls (780 CMR)

- a. Class C interior finish materials shall be permitted for wainscoting or paneling of not more than 1,000 square feet of applied surface area in the grade lobby where applied directly to a noncombustible base or over furring strips applied to a noncombustible base and fireblocked as required by Section 803.13.1.
- b. In other than Group I-3 occupancies in buildings less than three stories above grade plane, Class B interior finish for nonsprinklered buildings and Class C interior finish for sprinklered buildings shall be permitted in interior exit stairways and ramps.
- c. Requirements for rooms and enclosed spaces shall be based upon spaces enclosed by partitions. Where a fire-resistance rating is required for structural elements, the enclosing partitions shall extend from the floor to the ceiling. Partitions that do not comply with this shall be considered enclosing spaces and the rooms or spaces on both sides shall be considered one. In determining the applicable requirements for rooms and enclosed spaces, the specific occupancy thereof shall be the governing factor regardless of the group classification of the building or structure.
- d. Lobby areas in Group A-1, A-2 and A-3 occupancies shall not be less than Class B materials.
- e. Class C interior finish materials shall be permitted in places of assembly with an occupant load of 300 persons or less.
- f. For places of religious worship, wood used for ornamental purposes, trusses, paneling or chancel furnishing shall be permitted.
- g. Class B material is required where the building exceeds two stories.
- h. Class C interior finish materials shall be permitted in administrative spaces.
- i. Class C interior finish materials shall be permitted in rooms with a capacity of four persons or less.
- j. Class B materials shall be permitted as wainscoting extending not more than 48 inches above the finished floor in corridors and exit access stairways and ramps.
- k. Finish materials as provided for in other sections of this code.
- l. Applies when protected by an automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2.

# Fire Prevention Regulations (527 CMR)

- ◆ Upholstered Furniture, Curtains, and Decorations
  - Applies to Health Care, Residential Board and Care, Ambulatory Health Care, Detention and Correction, Hotels, Dormitories, Special Amusement Buildings

# Fire Prevention Regulations (527 CMR)

- ◆ Upholstered Furniture must meet one of the following if the building is sprinklered:
  - Class I in accordance with NFPA 260 (ignition test)
  - Char length less than 1.5" in accordance with NFPA 261
  - TB CAL 117
- ◆ Upholstered Furniture must meet ASTM E 1537 if the building is not sprinklered.

# Examples of Upholstered Furniture

Plastic woven chair



Banquette seating



Plastic stacking chairs



# Examples of Upholstered Furniture

Padded chairs



Lucite chair



# Fire Prevention Regulations (527 CMR)

- ◆ Curtains must be tested to NFPA 701
- ◆ Decorations usually require testing to NFPA 701, but it can vary based on material and occupancy.

# Blinds vs. Curtains:

Blinds: Anything that keeps out light when placed in a window, not including ordinary window shades.



Curtains: A piece of cloth or other material, sometimes arranged so that it can be drawn upward or sideways, hung for decoration, as at a window, or to cover or conceal a space.



# Boston Fire Prevention Code

- ◆ Specific to the city
- ◆ One permit is required for each unique regulated material.
- ◆ Application is reviewed by the BFD chemist.



**Boston Fire Department  
Fire Prevention Division  
1010 Massachusetts Avenue – 4<sup>th</sup> Floor  
Boston, MA 02118  
Tel: 617-343-3527**

**Regulated Materials - General Guidelines**

	Furniture <sup>1</sup>		Draperies & Decorative Material <sup>2</sup>	Wall-covering		Panel Systems	Floor-covering <sup>3</sup>	Tents & Temp. Enclosure	Mattress & Mattress Products <sup>4</sup>
	Upholstered	Reupholstered		Vinyl/(Ceiling Tile)	Fabric/Textile				
Regulation	Boston Fire Prev. Code Article IX BFD IX-10	Boston Fire Prev. Code Article IX BFD IX-10	Boston Fire Prev. Code Article IX BFD IX-10	Boston Fire Prev. Code Article IX Mass. State Bldg Code 6th Ed. Section 801	Boston Fire Prev. Code Article IX Mass. State Bldg Code 6th Ed. Section 801	Boston Fire Prev. Code Article IX Mass. State Bldg Code 6th Ed. Section 801	Mass. State Bldg Code 6th Ed. Section 801	Boston Fire Prev. Code Article IX Section 31.05 & 7.12(a)	Boston Fire Prev. Code Article IX BFD IX-11
Test Method	BFD IX-10 TB 133 ASTM 1537	BFD IX-10 BFD IX-1	BFD IX-1	BFD IX-1 ASTM E84	BFD IX-1 ASTM E84	BFD IX-1 ASTM E84	ASTM E648	BFD IX-1	BFD IX-11
BFD Requirements	Label Designated by 527 CMR 1.00 C 12.6.3.5 To be affixed to product.	Use of existing foam or FR foam (min CA 117). Foam must be covered with barrier. All fiberfill must be protected by barrier.	Submit 12" x 12" sample from actual yardage to be used. Certificate of flame-retardant finish shall be submitted.	Submit actual ASTM E84 test report. Submit 12" x 12" sample from actual yardage to be used.	Submit actual ASTM E84 test report. Must be Class A FS 0-25 AND building must be fully sprinkled. Submit 12" x 12" sample from actual yardage to be used.	Submit actual ASTM E84 test report. All fiberfill must be protected by barrier. Unless tested as assembly.	Submit actual radiant panel test report. Carpet and under layment must be tested as assembly.	Temp. Enc.: Submit 1 Sq. yard for testing. Tents: Submit 12" x 12" sample for testing. * other permits from FP Division may be required.	BFD IX-11 test report and test video must be submitted.
BFD Restrictions	*See BFD 1X-10 Revised 4/1/14 for more information		Shall not be placed to obstruct the use of an exit.	Must be installed over a non-combustible base. Previous wall covering must be removed.	Not for use as ceiling finish or elevator cabs.		Not for use as wall or ceiling finish, seating products, or as decorative material.		
Fee	\$20.00 per fabric	\$25.00 per fabric	\$25.00 per sample	\$25.00 per sample	\$25.00 per sample	\$25.00 per sample	\$25.00 per sample	\$25 per location / \$25 annual	50.00 per mattress

**Regulated Occupancies**

**A** - Assembly, **E** - Educational, **I** - Institutional, **R** - Residential (excluding R-3 & R-4), **B** - Business and **M** - Mercantile w/ exceptions for upholstered furniture (rev. 4/1/14)  
**B** - Business and **M** - Mercantile use groups having **(R)** Residential spaces above with exceptions. (rev. 4/1/14)

**Note: See Regulation of Upholstered Furniture BFD 1X-10 rev. 4/1/14 for additional requirements and exceptions @ <https://www.cityofboston.gov/fire/prevention/chemist.asp>**

**Notes:**

<sup>1</sup> Including but not limited to: chairs, benches, banquettes, couches including plastic & molded seating.

<sup>2</sup> Including but not limited to: curtains, drapery, banners, paper, films and foam cellular board.

<sup>3</sup> Regulated in corridors, exit ways, stairways, lobbies, and common areas.

<sup>4</sup> Hospitals, Nursing Homes, Dormitories, Hotels, Detention Facilities.

\* All submissions must be accompanied a completed signed application with appropriate fee. Incomplete applications will result in delays in processing or rejection.

<https://www.boston.gov/sites/default/files/document-file-09-2016/regulated-materials-general-guidelines-and-fees.pdf>

# Boston Fire Department Chemist Regulations – Upholstered Furniture

- ◆ Upholstered Furniture Requirements Apply to:
  - All Group A, E, I, R-1, and R-2
  - Nonsprinklered group B and M when located beneath Group R
  - Seating beneath temporary assemblies in a tent or other temporary structure where there exists an open flame

# Boston Fire Department Chemist Regulations – Upholstered Furniture

- ◆ Submit one application for each fabric/padding combination (including test report).
- ◆ CAL 117 required in:
  - Group A, E, I, R (excluding R-3 and R-4)
  - Any Group A space with occupant load > 49 located in an otherwise unregulated occupancy
- ◆ CAL 133 required in:
  - Nonsprinklered Groups B and M located beneath Group R
  - Temporary assemblies/structures
- ◆ ASTM E 1537 required for solid plastic chairs

# Boston Fire Department Chemist Regulations – Draperies and Decorative Materials

- ◆ Submit one application for each unique product. Submit 12" x 12" sample from actual yardage for internal testing at BFD.



Boston Fire Department  
Fire Prevention Division  
1010 Massachusetts Avenue – 4<sup>th</sup> Floor  
Boston, MA 02118  
Tel: 617-343-3527 Fax: 617-343-3604

BFD CERT. NO.:  
(FOR OFFICE USE ONLY)

**APPLICATION FOR INSTALLATION OF DRAPERY/CURTAINS&WINDOW TREATMENTS**  
(COMPLETE IN INK ONLY)

DATE: \_\_\_\_\_

SUBMITTER: \_\_\_\_\_

COMPANY NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

TELEPHONE NO.: \_\_\_\_\_ FAX NO.: \_\_\_\_\_

EMAIL ADDRESS: \_\_\_\_\_

STREET ADDRESS OF PROPOSED INSTALLATION: \_\_\_\_\_

NAME OF PROPERTY: \_\_\_\_\_

SPECIFIC LOCATION WITHIN PROPERTY: \_\_\_\_\_

IDENTIFICATION OF FABRIC: (ITEMIZE (1), (2), ETC.)  
**FABRIC** (Manufacturer, Pattern No., Color) **FIBER CONTENT:**

1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____

WILL THERE BE A DRAPERY LINING?  NO  YES.  
(Must submit sample (actual yardage being used) of drapery lining for testing/evaluation)

FABRIC IS:  INHERENTLY FLAME RETARDANT  FLAME RETARDANT TREATED  
IF FLAME RETARDANT TREATED ATTACH CERTIFICATE OF FLAME RETARDANT FINISH.

OTHER INFORMATION: \_\_\_\_\_

**NOTE:** IF SAMPLE IS NOT FROM ACTUAL YARDAGE, THE BFD PERMIT CERTIFICATION WILL BE WITHHELD SUBJECT TO CONFIRMATION BY SUBMISSION AND TESTING OF A SAMPLE FROM ACTUAL YARDAGE AND PROVIDING A CERTIFICATE FOR FLAME RETARDANT FINISH.

SIGNATURE OF APPLICANT: \_\_\_\_\_

\*ENC: SAMPLE OF EACH MATERIAL SHOULD BE 12" X 12" MINIMUM. SIGN APPLICATION AND MAIL WITH CHECK PAYABLE TO THE CITY OF BOSTON FOR \$20.00/ITEM.  
APPROVED PERMITS WILL BE MAILED TO SUBMITTER.

Revised 8/09

# Boston Fire Department Chemist Regulations – Wall Coverings

- ◆ Submit one application for each unique product.
- ◆ ASTM E84 Test.
- ◆ Submit 12" x 12" sample from actual yardage for internal testing at BFD.

# Boston Fire Department Chemist Chemist Regulations – Floor Coverings

- ◆ Submit one application for each unique product.
- ◆ ASTM E648 Test.
- ◆ Only required in corridors, exitways, stairways, lobbies, and “common areas”.
- ◆ Carpet and underlayment must be tested as an assembly.

# Boston Fire Department Chemist Chemist Regulations – Mattresses

- ◆ Submit one application for each unique product.
- ◆ BFD IX-11 Test.
- ◆ Submit BFD IX-11 test report and video.

# Case Study – Restaurant Fit out in the Seaport

- Submitted a total of 16 applications:
  - 2 draperies
  - 1 decorative material
  - 6 upholstered furniture items (1 application for each unique foam/fabric combination)
  - 6 wall coverings
  - 1 ceiling tile

# Case Study – Restaurant Fit out in the Seaport

- Design included:
  - 8 ft x 10 ft canvas mural
  - multiple “paint-by-number” art pieces on a cardboard substrate.



Martin J. Walsh  
Mayor

**Boston Fire Department  
Fire Prevention Division  
1010 Massachusetts Ave - 4th Floor  
Boston, MA 02118  
617-343-3527**

Certificate #:

**CHM1004866**

Issued Date 10/7/2019

### **Notice of Rejection**

C3 COMMERCIAL CONSTRUCTION CONSULTING, INC.

313 Congress Street  
Boston, MA 02210

**Phone:** (617)530-1466  
To whom it may concern:

**Fax:**

Your application for a Boston Fire Department's Chemist Certificate for the following material submitted:

**Identification Fabric:**

Med Heavy Raw Cotton Canvas

**To be installed/used at:**

████████████████████  
BOSTON, MA 02210

**Has been rejected for the following reasons:**

Sample Consumed in Fire Test

Sincerely,

**Joseph W. Murphy  
Department Chemist**



Martin J. Walsh  
Mayor

**Boston Fire Department**  
**Fire Prevention Division**  
**1010 Massachusetts Ave - 4th Floor**  
**Boston, MA 02118**  
**617-343-3527**

Certificate #: **CHM1004927**  
Issued Date 10/7/2019  
Fee: \$25.00  
District: 6

### **Chemist Certificate for Interior Finish Wallcovering and Ceiling Tiles**

C3 COMMERCIAL CONSTRUCTION CONSULTING, INC.

313 Congress Street  
Boston, MA 02210

Phone: (617)530-1466 Fax:

In accordance with the provisions of Chapter 28 of the Ordinances of 1979 known as the Boston Fire Prevention Code, MGL Ch148 and 527 CMR 1.00 of the Board of Fire Prevention Regulations and amendments thereto, this certificate is granted to be exercised based on the information and data submitted. The material(s) listed is/are found acceptable for indicated use and meet the requirements of the Commonwealth of Massachusetts State Building Code §922.7 for Wallcovering applied over a non-combustible base. This certificate is granted to be exercised at:

[REDACTED]  
BOSTON, MA 02210

**Specific Location within Property:**

[REDACTED]

The following material(s) shall be installed:

**Identification of Material:**

Astek/ Ethereal/ Alloy

**Other Information:**

Wallcovering

**Safeguards and Conditions Prescribed:**

This ruling is based on the information provided by the submitter. All previously installed wallcovering shall be completely removed prior to installation of new material. Installation of ceiling tiles shall not obstruct proper operation of automatic fire detection/suppression systems.

The person accepting this permit shall conform to the Statutes of the Commonwealth, Commonwealth of Massachusetts Fire Prevention Regulations, the Boston Fire Prevention Code, the Ordinances of the City of Boston and the conditions of this certificate. This certificate may be revoked at any time by the Head of the Fire Department; a violation of any of its conditions shall result in an immediate revocation of the certificate. The person to whom this certificate is issued shall indemnify and save harmless the City of Boston from any damage it may sustain, or be required to pay by reason of the exercise of this certificate, or by reason of any act or neglect of himself/herself any of his/her employees or agents relating to the exercise of this certificate or by reason of

**Authorized by: Joseph W. Murphy, Department Chemist**

This is an original certificate and MUST AT ALL TIMES BE KEPT ON THE PREMISES. If required a renewal certificate must be obtained upon expiration from the BOSTON FIRE DEPARTMENT.

# MA H.4900

- H4900 was signed into law on 1/1/21
- Goes into effect on 1/1/22
- Prohibits the use of 11 flame retardants

# H4900 Considerations

- ◆ Does not apply to products manufactured before 12/31/21
- ◆ Manufacturers prohibiting from producing
- ◆ Retailers prohibited from selling
- ◆ No prohibition on use or installation

# Thank you for your time!

## Questions?

This concludes the Code Committee Presentation

Jenna Troio, Kelly Knopp & Adam Macsata

[jtroio@c3boston.com](mailto:jtroio@c3boston.com)

[kknopp@c3boston.com](mailto:kknopp@c3boston.com)

[amacsata@c3boston.com](mailto:amacsata@c3boston.com)



Commercial  
Construction  
Consulting, Inc.

313 Congress Street Boston, MA 02210 617.330.9390 617.330.9383 fax

[www.c3boston.com](http://www.c3boston.com)