

From "Red Stuff" to Special Inspections: How We Got Here and What it Means



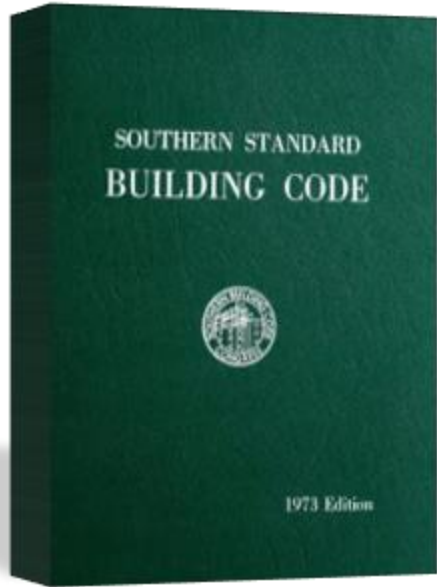
Wayne Barrow, CFPS



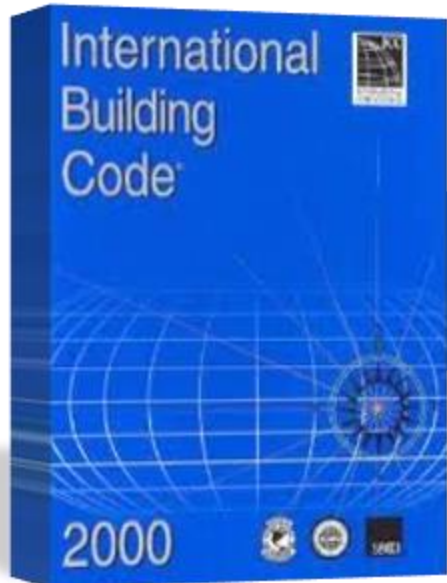
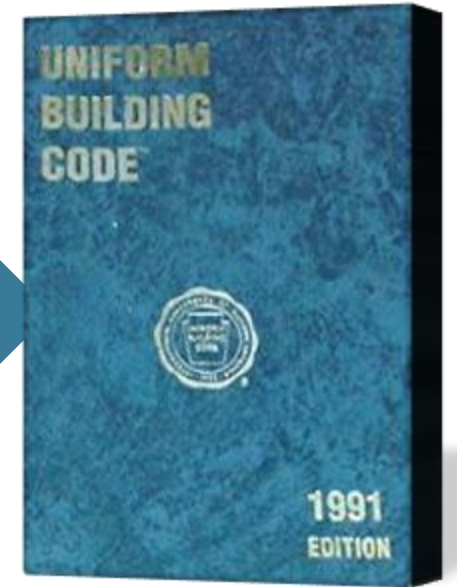


Recap

Codes



"approved material"



"systems" but no inspection

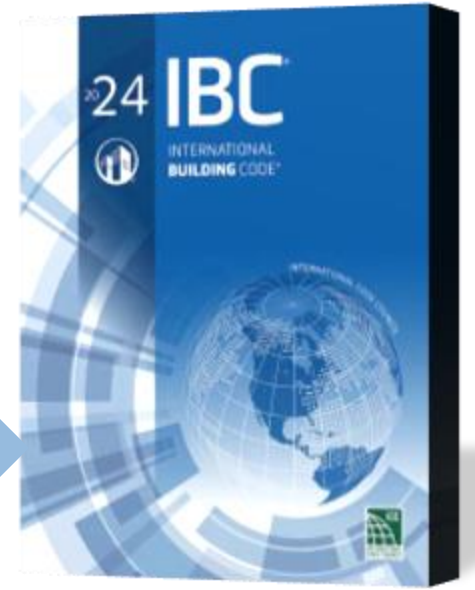


Codes

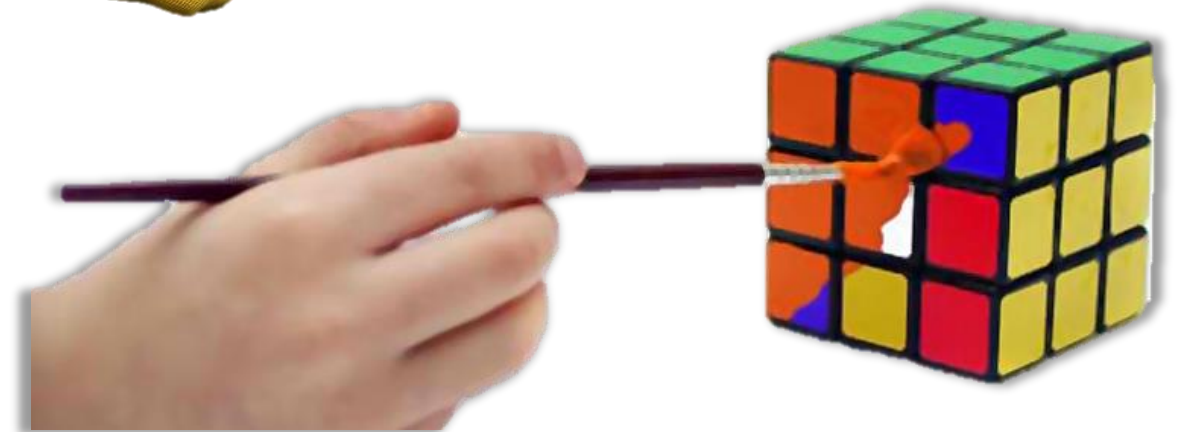


ASTM E 2174
ASTM E 2393

Special Inspection



GC's and Subs



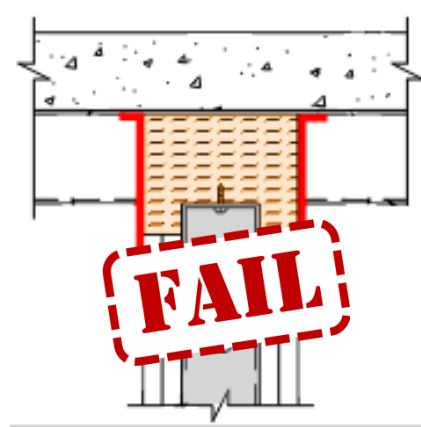
"Use more red stuff!"

"Close enough!"

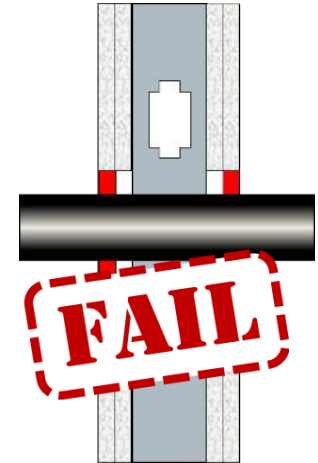
Failure Rates



40%



100%



80%

Why the Need?

Jurisdictional Inspection



versus

Special Inspection





**The AHJ decides who is qualified.
The Firestop Inspector “works for” the AHJ.**

Assumption of competence is no longer good enough!



ASTM E 3038

Standard Practice for Assessing and Qualifying Candidates as Inspectors of Firestop Systems and Fire-Resistive Joint Systems¹

This standard is issued under the fixed designation E3038; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This Practice is intended to assist an authority having jurisdiction (AHJ) or authorizing authority (AA), or both, in establishing minimum qualifications for candidates who desire to conduct inspections in compliance with Practices E2174 and E2393.

NOTE 1—Authority having jurisdiction (AHJ) is defined in Practices E2174 and E2393.

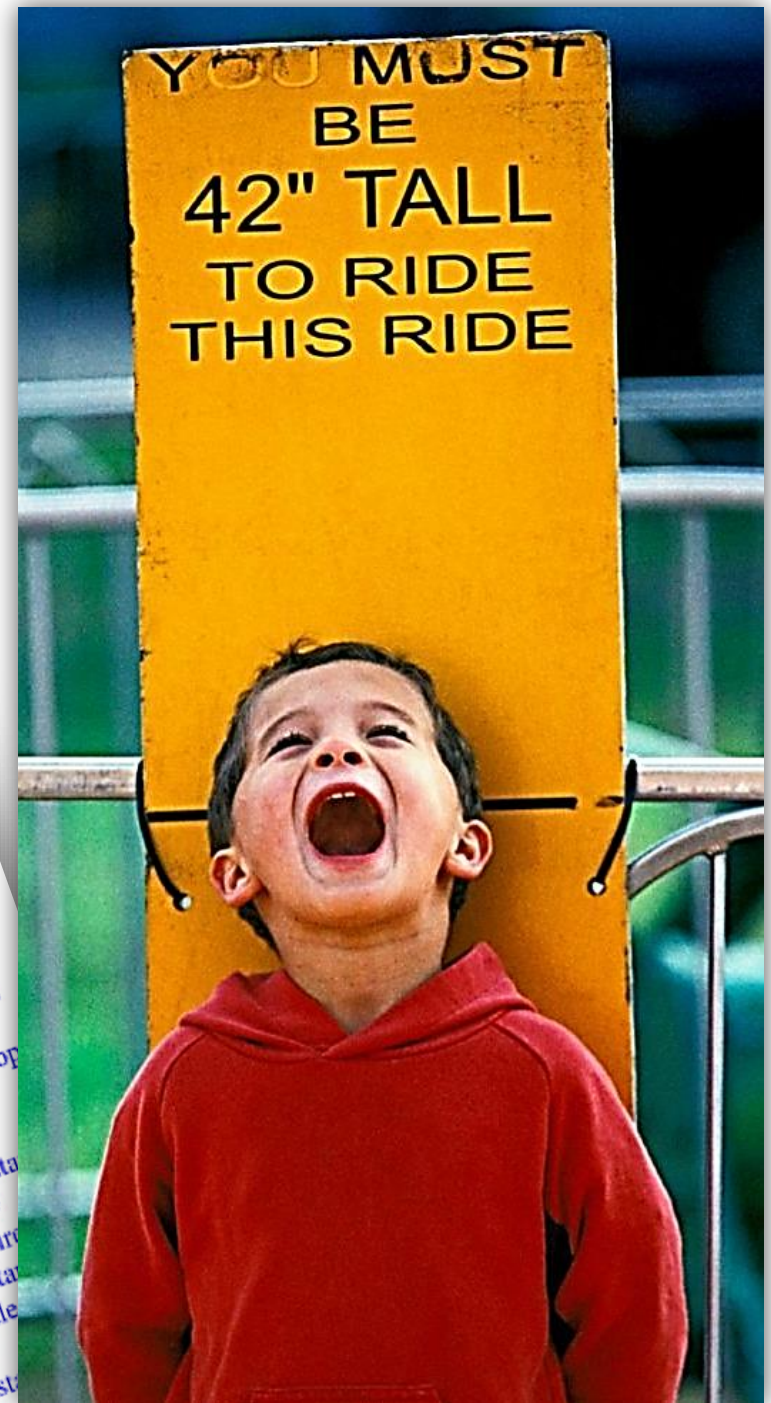
NOTE 2—Authorizing authority (AA) is defined in Practices E2174 and E2393. Examples of the AA include, but are not limited to, the responsible engineer, building owner, or their representative.

1.6 The text of this standard references notes and footnotes that provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the standard.

2. Referenced Documents

2.1 ASTM Standards:²

E176 Terminology of Fire Standards
E631 Terminology of Building Constructions
E699 Specification for Agencies Involved in Testing, Quality Assurance, and Evaluating of Manufactured Building Components
E814 Test Method for Fire Tests of Penetration Firestop Systems
E1966 Test Method for Fire-Resistive Joint Systems
E2032 Guide for Extension of Data From Fire Resistive Tests Conducted in Accordance with ASTM E 119
E2174 Practice for On-Site Inspection of Installed Fire Resistive Systems
E2393 Method for Determining Fire Resistive Systems Carriers Using Intermediate-Scale





'73-'00 = Speed Limits Not Set

'00-'12 = Untrained "Police"

**'12-'24 = Sporadic &
Inconsistent Enforcement**

The background is a dark gray technical drawing. It features a large rectangle on the left with a dashed border and diagonal hatching. To the right of this rectangle is a complex mechanical assembly, possibly a valve or a pump component, with various ports, bolts, and internal structures. The entire image has a technical, engineering feel.

**What are the Consequences
of Effective Special
Inspection?**

Rework



Schedule delays



Stress & Grief



Reputation



Challenge - Educating AHJs

How Much Destructive Testing?



Minimum 2% of each TYPE.

Per floor or per 10,000 sq ft.

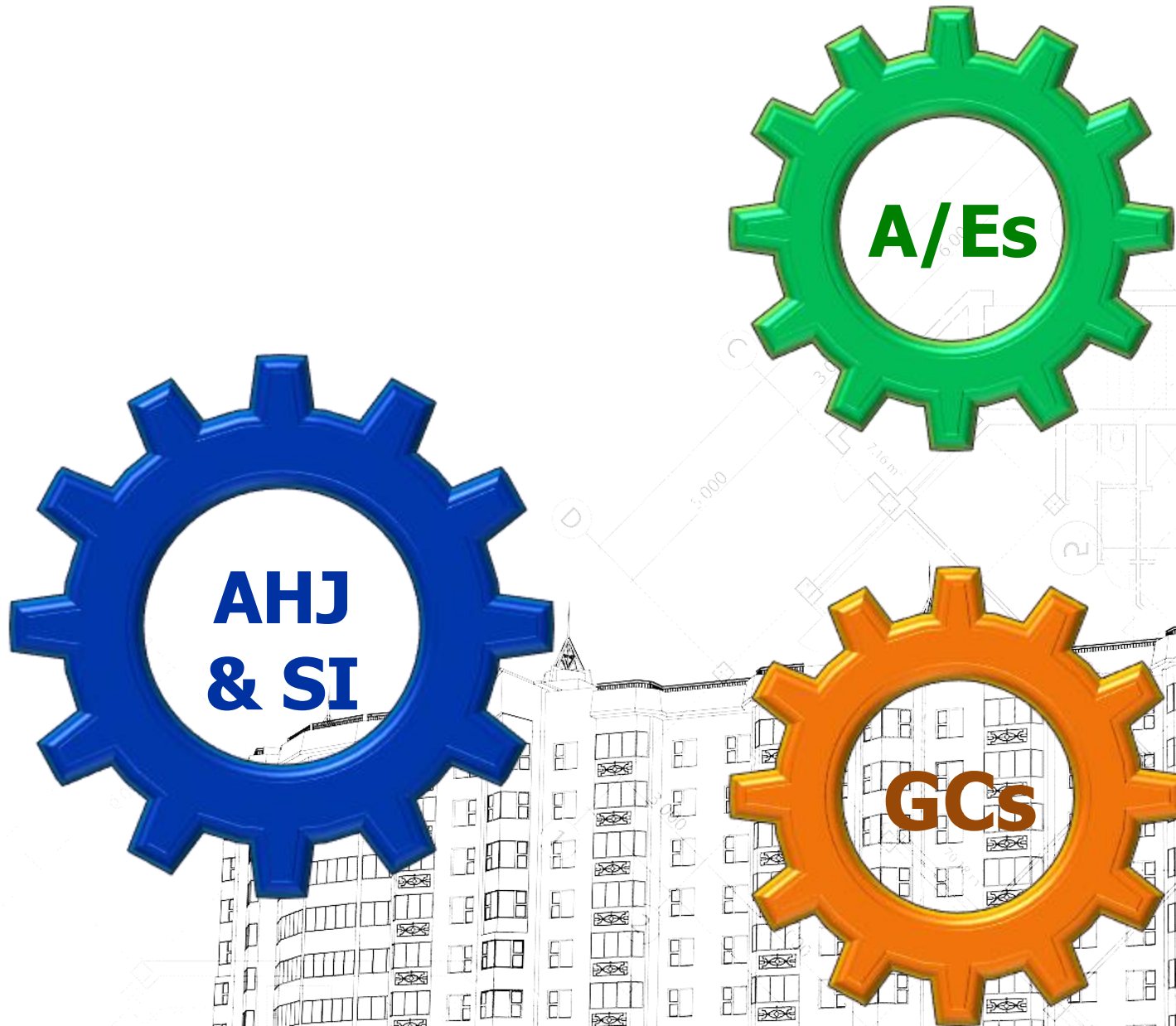
One wrong? Do one more...

...up to 10% of total.



WOONSOCKET
FIRE
DEPT

AHJs Must Engage





**Special
inspection
of firestopping
is a
culture change,
not just a code
change**

How Are You Going to Help?



Join!!



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Voting Contractor Members

Voting Contractor Members are specialty building construction contractors with a specific interest in the installation of all firestop materials and systems and Passive Fire Protection Systems. All Specialty Firestop Contractors, regardless of geographic location, are considered Voting Members. Branch members are considered Non-Voting Members.

Manufacturer Members

Manufacturer Members are those firms who produce and market private label products for the firestopping industry. Additional locations may also join FCIA as a Branch Membership. ALL Branch Members must have a parent branch who is a Member in Good Standing* before Branch Membership will be considered.

Associate Members

Associate Members are Consultants, Specialty Firestop Inspectors and Inspection Agencies, and Distributors, that have an interest in fire- and life-safety systems and safety education and promote the correct installation of firestop and effective compartmentation products and systems.

Get Involved

**Inspection
Committee**

**Advocacy
Group**



Get Education

FIC '25

**FCIA Firestop Industry
Conference & Trade Show**



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LinkedIn





Thank you. Thank you very much!