

A photograph of a modern interior hallway. The walls are covered in light-colored wood panels. A fire door with a silver handle is visible on the left. To the right, a wooden console table holds a vase of yellow flowers. A teal banner is overlaid at the bottom.

WHEA

Fire Compartments and Fire Door Requirements

ASSA ABLOY - The global leader in access solutions



Operations
70+
countries

Employees
49,000

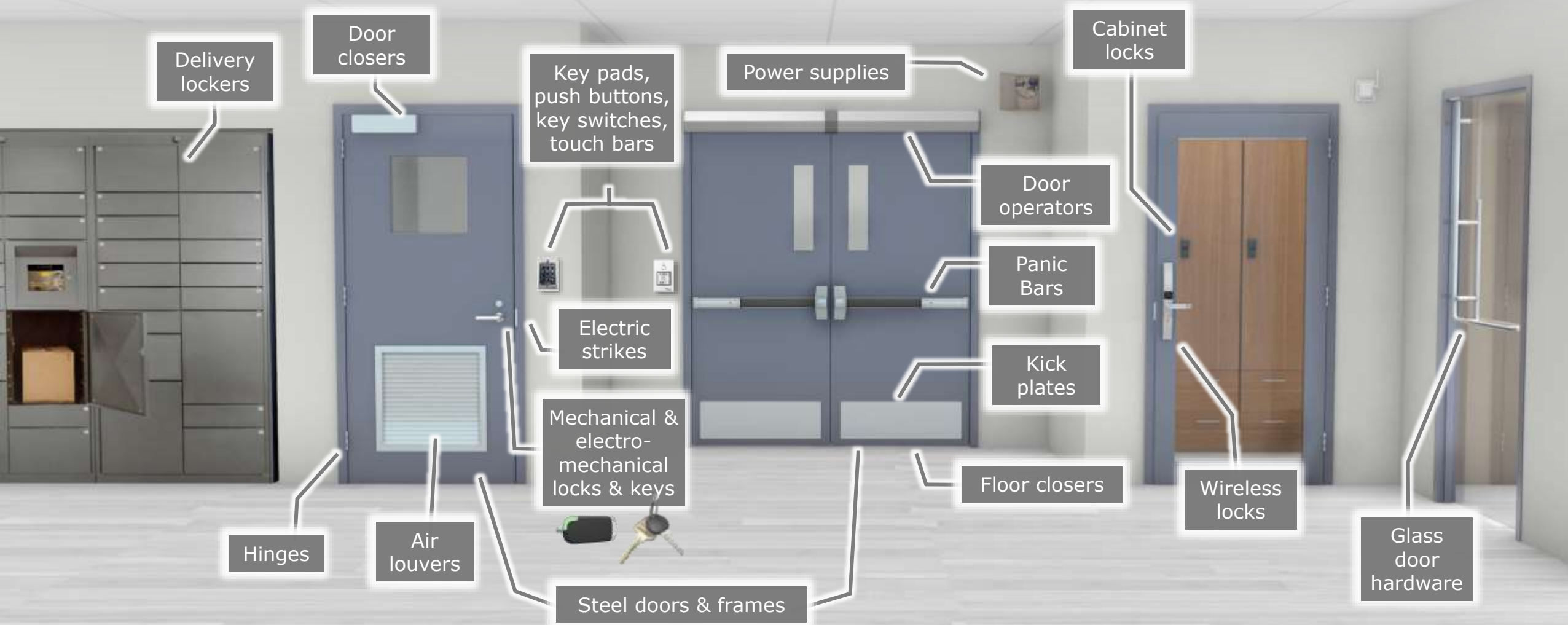
Sales USD
9.6
billion

Ryan McLachlan, AHC, CFDAI, CM-BIM
Manager - Openings Studio Building Technologies

Ryan.McLachlan@assaabloy.com
(262) 825-3089

Our non-residential product offering

Securing from the **perimeter...to shell...to core**



Agenda

1. Passive fire protection systems
2. Annual fire door inspection requirements
3. How inspections are conducted
4. Common issues causing non-compliance
5. Reporting requirements
6. Remediation strategies



What is Passive Fire Protection?

Building components designed to passively prevent or stop the spread of fire and smoke.

- **Structural Fire Protection**

- **Compartmentation**

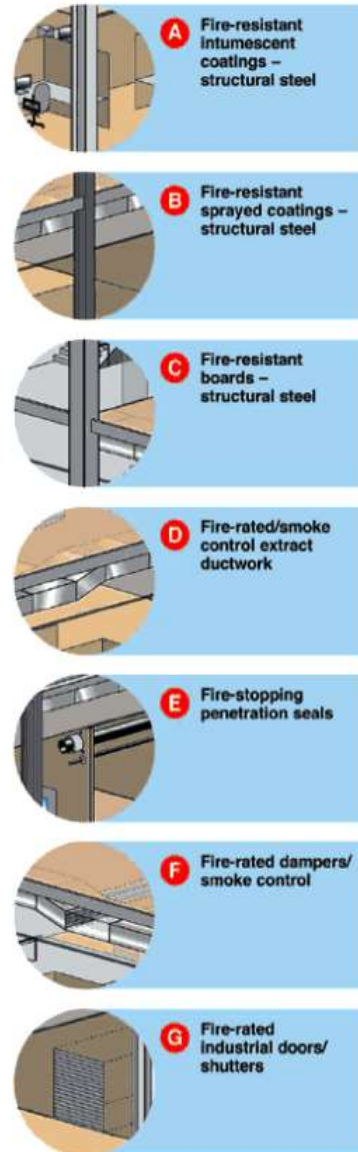
- NFPA 101 – Life Safety Code:

- 8.2.2.1 Where required by other chapters of this Code, every building shall be divided into compartments to limit the spread of fire and restrict the movement of smoke.

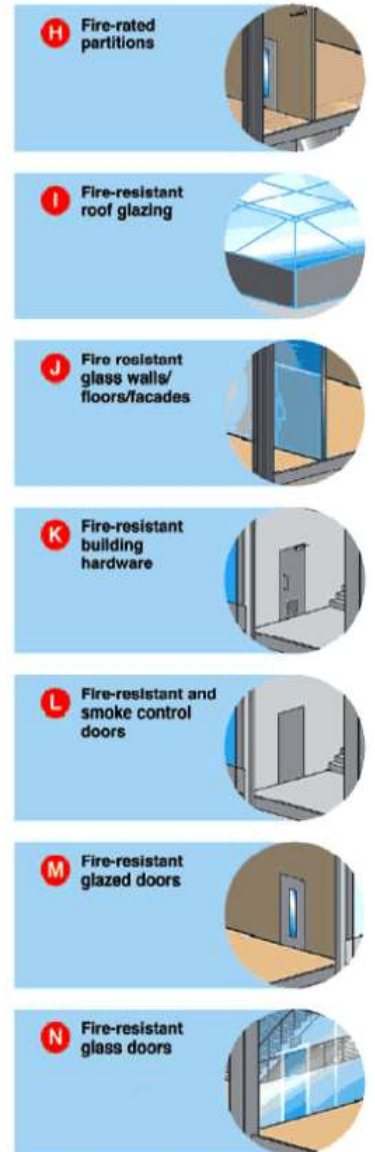
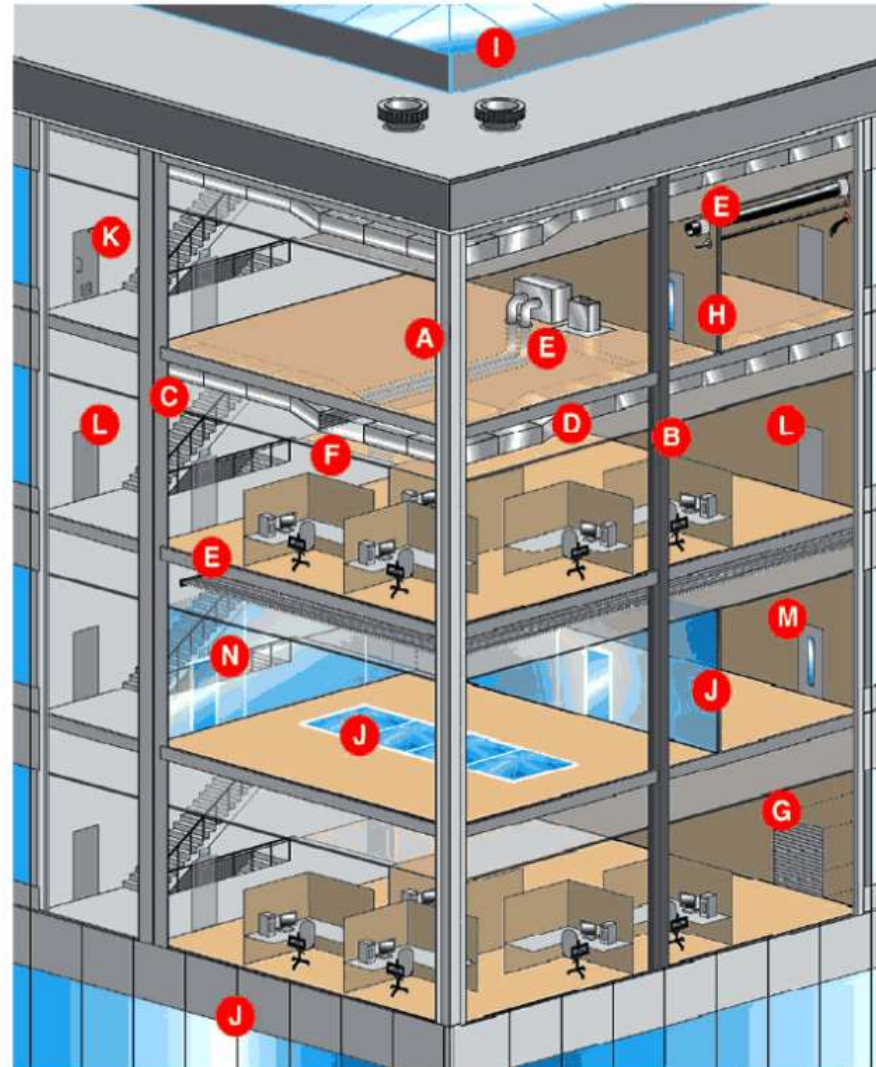
- **Opening Protection**

- **Firestopping Systems**

- International Firestop Council
www.firestop.org
- Firestop Contractors International Association
www.fcia.org



IMPORTANT ASPECTS OF PASSIVE FIRE PROTECTION



What is Passive Fire Protection?

**TABLE 509
INCIDENTAL USES**

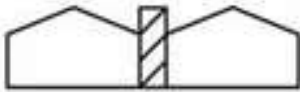
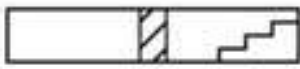
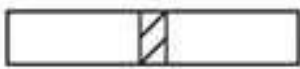



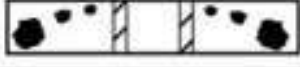
ROOM OR AREA	SEPARATION AND/OR PROTECTION
Furnace room where any piece of equipment is over 400,000 Btu per hour input	1 hour or provide automatic sprinkler system
Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower	1 hour or provide automatic sprinkler system
Refrigerant machinery room	1 hour or provide automatic sprinkler system
Hydrogen fuel gas rooms, not classified as Group H	1 hour in Group B, F, M, S and U occupancies; 2 hours in Group A, E, I and R occupancies.
Incinerator rooms	2 hours and automatic sprinkler system
Paint shops, not classified as Group H, located in occupancies other than Group F	2 hours; or 1 hour and provide automatic sprinkler system
In Group E occupancies, laboratories and vocational shops not classified as Group H	1 hour or provide automatic sprinkler system
In Group I-2 occupancies, laboratories not classified as Group H	1 hour and provide automatic sprinkler system
In ambulatory care facilities, laboratories not classified as Group H	1 hour and provide automatic sprinkler system
Laundry rooms over 100 square feet	1 hour or provide automatic sprinkler system
In Group I-2, laundry rooms over 100 square feet	1 hour
Group I-3 cells and Group I-2 patient rooms equipped with padded surfaces	1 hour



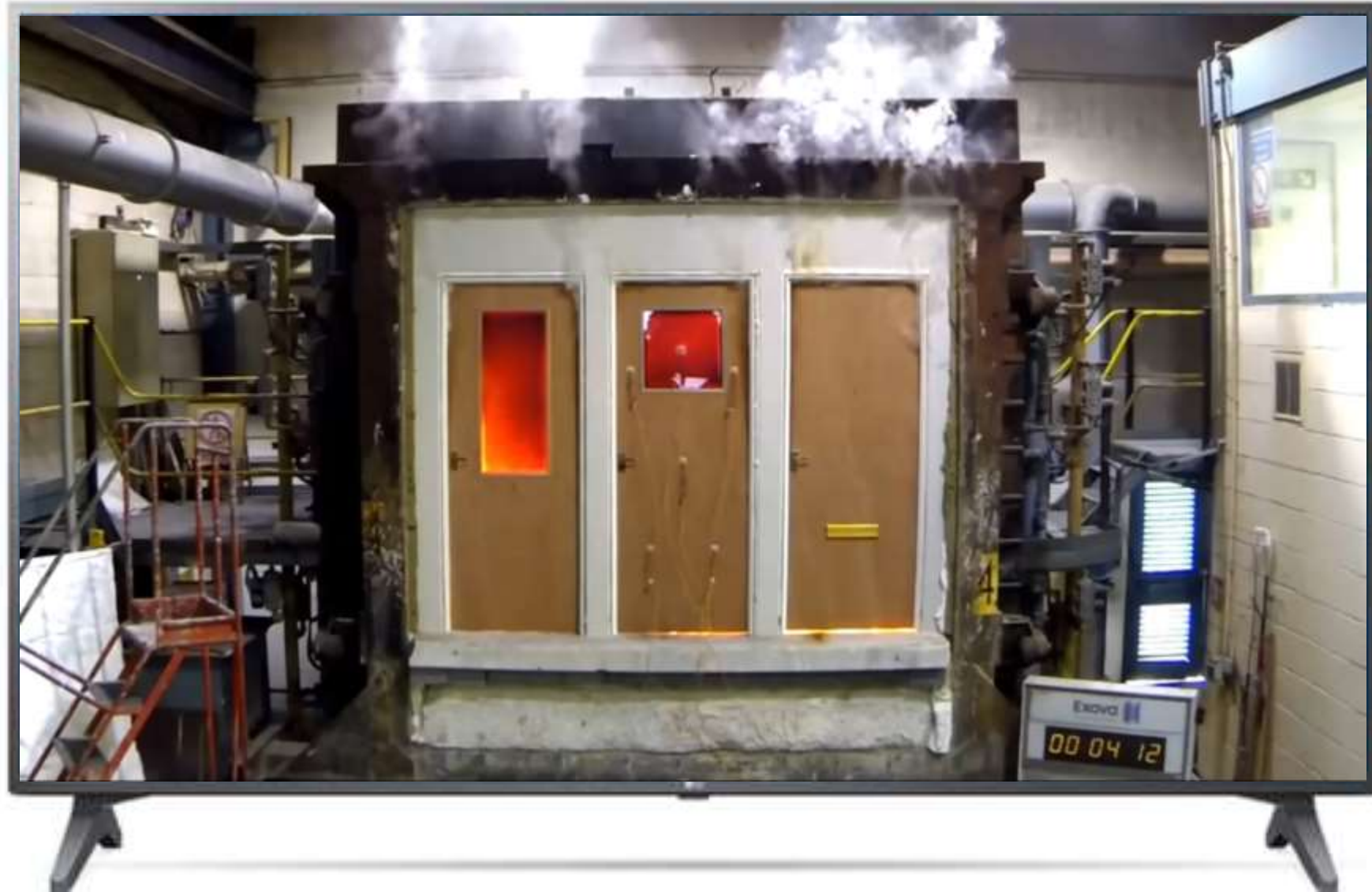
What is a Fire Door Assembly?

A fire door assembly (installed in a firewall) is used as part of a passive fire protection system to reduce the spread of fire or smoke between compartments and to enable safe egress.

Table 1 – Fire door openings

Opening	Wall Rating	Door and Frame Rating	Description and Use
	4 Hour	3 Hour (180 minutes)	These openings are in walls that separate buildings or divide a single building into designated fire areas.
	2 Hour	1-½ Hour (90 minute)	Openings of this type are used in enclosures of vertical communication or egress through buildings. Examples of these types of openings include stairwells and elevator shafts.
	1 Hour	1 Hour (60 minute)	These door and frame assemblies divide occupancies in a building.
	1 Hour	¾ Hour (45 minute)	For use where there are openings in corridors or room partitions.
	2 Hour	1-½ Hour (90 minute)	This opening is in a wall where there is the potential for severe fire exposure from the exterior of the building.
	1 Hour	¾ Hour (45 minute)	This opening is in an exterior wall that has the potential to be exposed to moderate to light fire from the exterior of the building.
	1 Hour	½ Hour (20 minute)	These openings are in corridors where smoke and draft control is required. The minimum wall rating is ½ hour.

What is a Fire Door Assembly?



Code Requirements

Hammurabi Code - 1755 BC

- 229: If a **builder** builds a house for someone, and does not construct it properly, and the house which he built falls in and kills its owner, then that **builder** shall be put to death.



Code Requirements

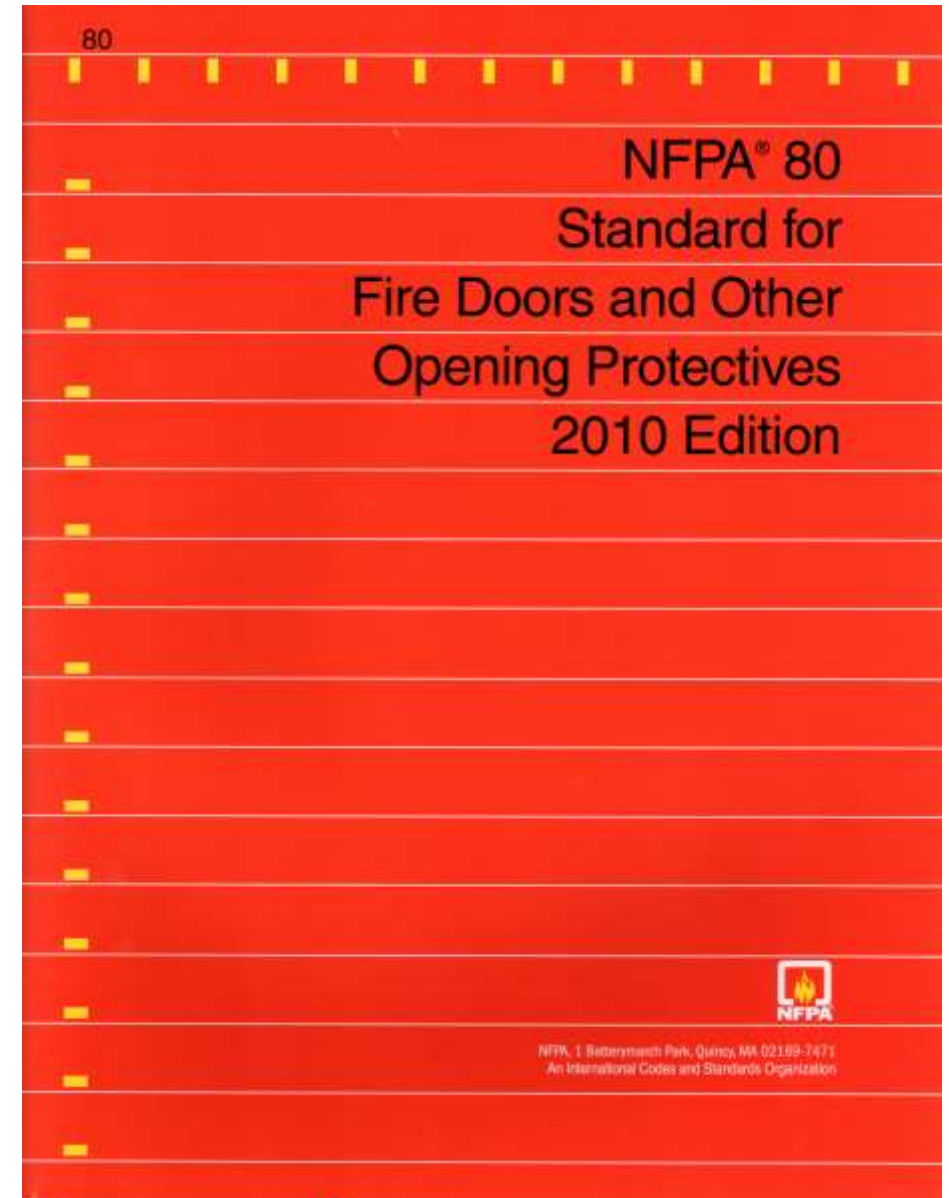
NFPA 101 Life Safety Code – 2012

- Chapter 8 – Features of Fire Protection
 - **8.3.5 Penetrations**
 - **8.3.5.1 Firestop Systems and Devices Required**

Penetrations for cables, cable trays, conduits, pipes, tubes, combustion vents and exhaust vents, wires, and similar items to accommodate electrical, mechanical, plumbing, and communications systems that pass through a wall, floor, or floor/ceiling assembly constructed as a fire barrier shall be protected by a firestop system or device.

NFPA 80 – 2010

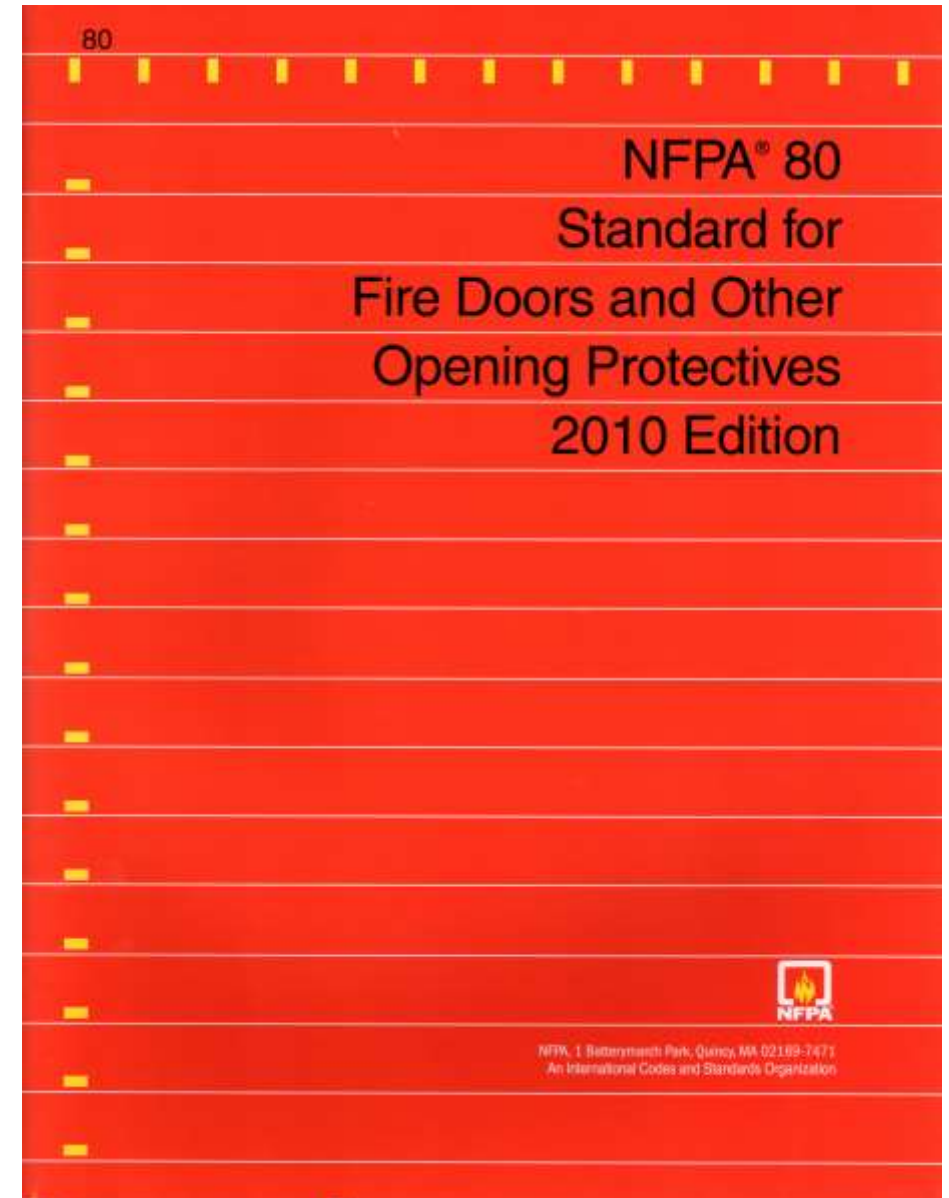
- Chapter 19 – Installation, Testing and Maintenance of Fire Dampers
 - **19.4.1** Each damper shall be tested and inspected 1 year after installation.
 - **19.4.1.1** The test and inspection frequency shall then be every 4 years, except in hospitals, where the frequency shall be every 6 years.



Code Requirements

Life Safety Code NFPA 101 – 2012

- Chapters 18 & 19 – Health Care Occupancies
 - References **7.2.1 Inspection of Door Openings**
 - **7.2.1.15.2** Fire rated door assemblies shall be inspected and tested in accordance with NFPA80, *Standard for Fire Doors and Other Protectives*. Smoke door assemblies shall be tested in accordance with NFPA 105, *Standard for Smoke Door Assemblies and Other Protectives*.



CMS Requirements



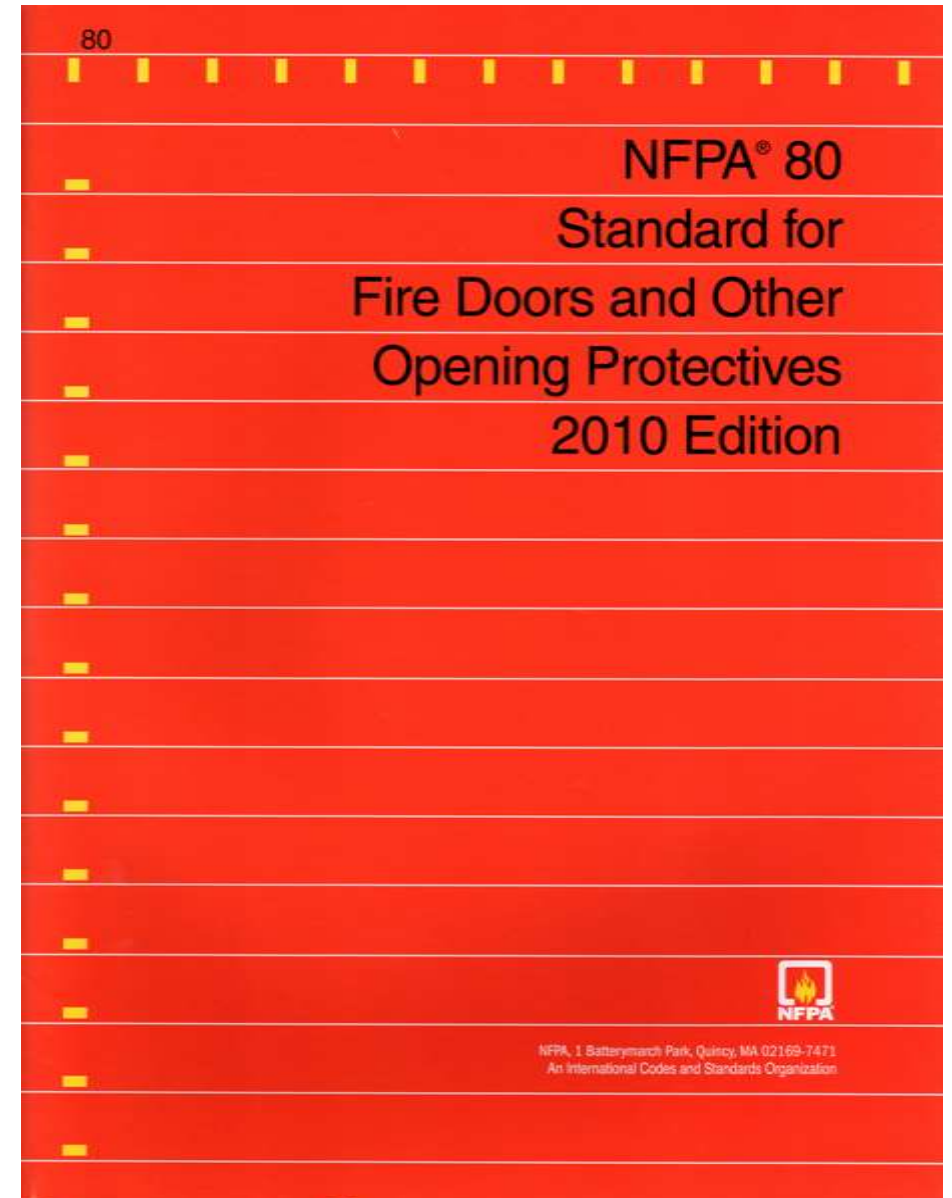
New Life Safety Code business occupancy requirements for BHC organizations

The Joint Commission is adding business occupancy standards to the Life Safety (LS) chapter for Behavioral Health Care and Human Services (BHC) organizations. This will go into effect on July 1.

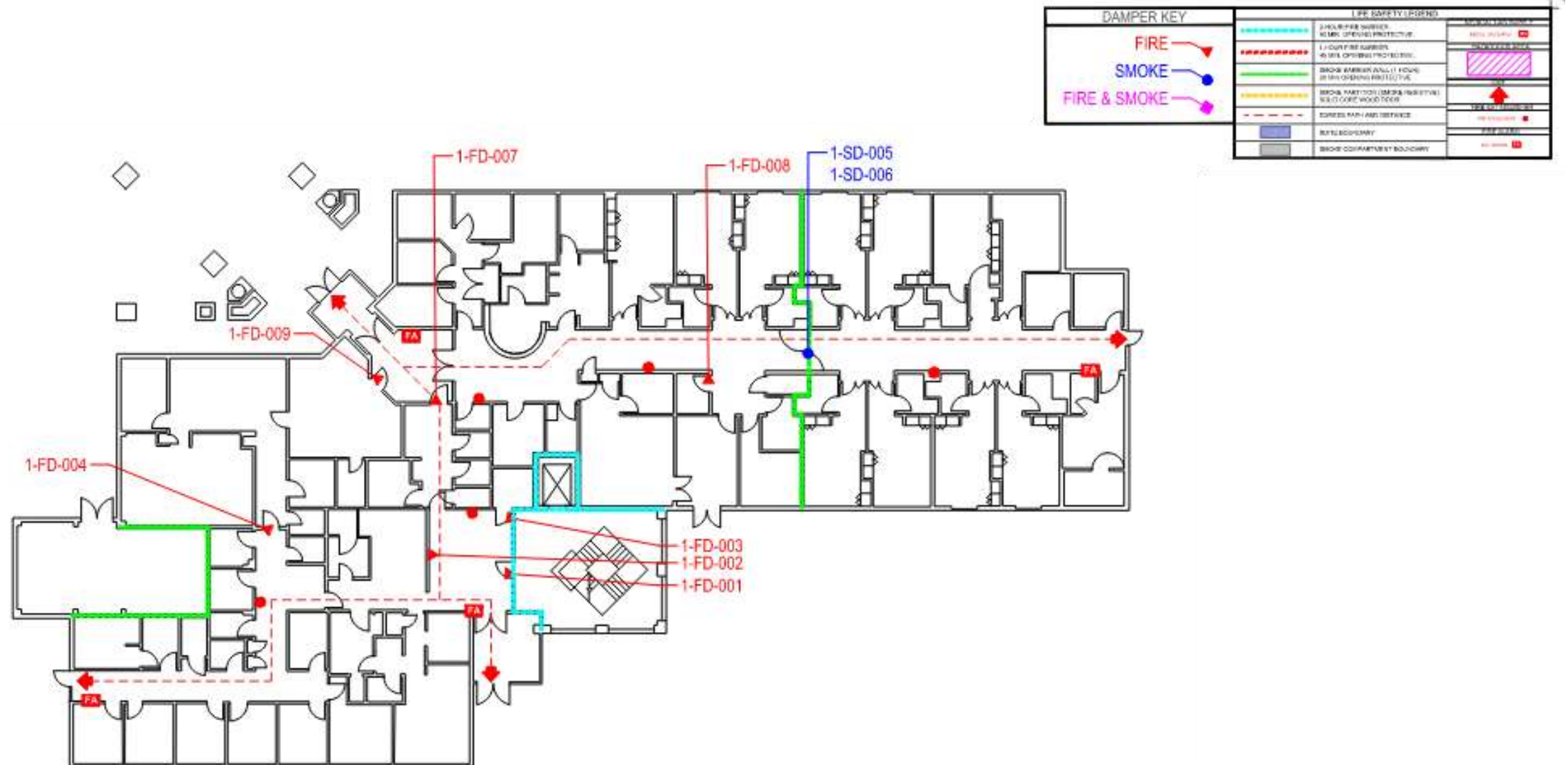
Code Requirements

NFPA 80

- **5.2* Inspection and Testing**
- **5.2.1*** Upon completion of the installation, door, shutters, and window assemblies shall be inspected and tested in accordance with 5.2.4.
- **5.2.4 Periodic Inspection and Testing**
- **5.2.4.1*** Periodic inspections and testing shall be performed not less than annually.



Preparing for an Inspection – Life Safety Drawings



Preparing for an Inspection

NFPA 80

- **5.2.3 Acceptance Testing.**
- **5.2.3.1*** Acceptance testing of fire door and window assemblies shall be performed by a qualified person with knowledge and understanding of the operating components of the type of assembly being subject to testing.



NFPA 80 - 13 Points of a Fire Door Inspection

- **5.2.3.5.2** - As a minimum, the following items shall be verified:
 - **(1)** Labels are clearly visible and legible.
 - **(2)** No open holes or breaks exist in surfaces of either the door or frame.
 - **(3)** Glazing, vision light frames, and glazing beads are intact and securely fastened in place, if so equipped.
 - **(4)** The door, frame, hinges, hardware, and noncombustible threshold are secured, aligned, and in working order with no visible signs of damage.
 - **(5)** No parts are missing or broken
 - **(6)** Door clearances do not exceed clearances listed in 4.8.4 and 6.3.1.7
 - **(7)** The self-closing device is operational; that is, the active door completely closes when operated from the full open position.
 - **(8)** If a coordinator is installed, the inactive leaf closes before the active leaf.
 - **(9)** Latching hardware operates and secures the door when it is in the closed position.
 - **(10)** Auxiliary hardware items that interfere or prohibit operation are not installed on the door or frame.
 - **(11)** No field modifications to the door assembly have been performed that void the label.
 - **(12)** Meeting edge protection, gasketing and edge seals, where required, are inspected to verify their presence and integrity.
 - **(13)** Signage affixed to a door meets requirements listed in 4.1.4

Fire Door Inspections

13 points of verification

(1) Labels are clearly visible and legible.

- **4.2* Listed and Labeled Products**
- **4.2.1*** Listed items shall be identified by a label.
- **4.2.2** Labels shall be applied in locations that are readily visible and convenient for identification by the AHJ after installation of the assembly.



wood door and hollow metal frame



plastic laminate door



hollow metal frame



steel mullion

Fire Door Inspections

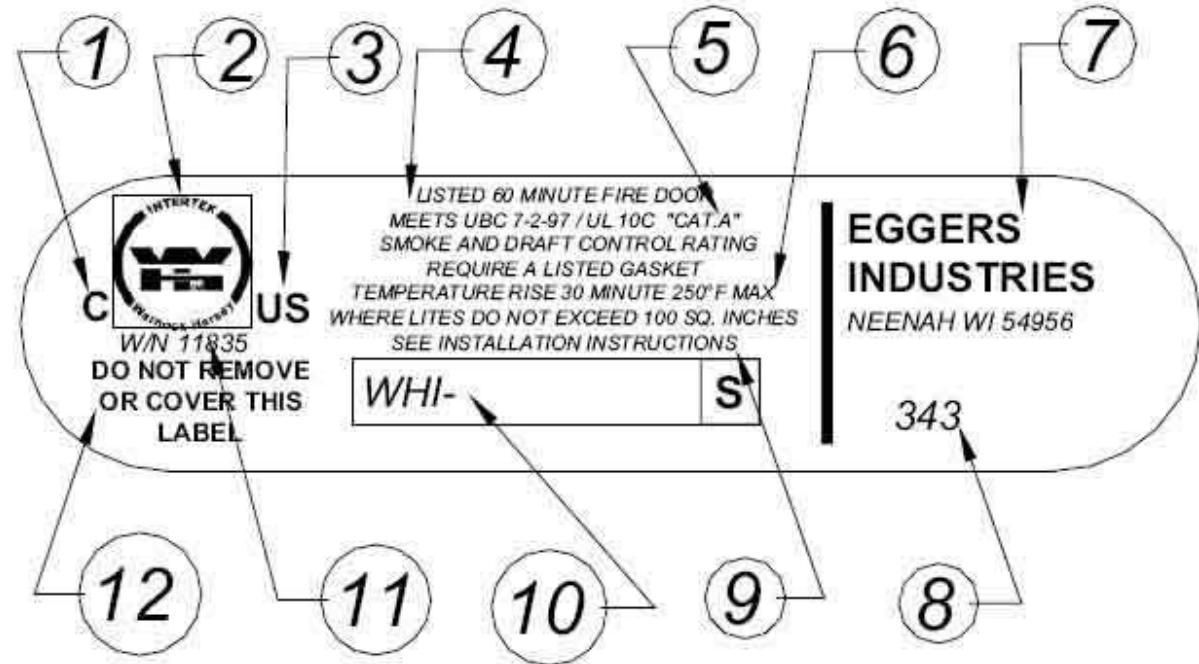
13 points of verification

How to read the label

Reading the label:

1. Country identifier
2. Certification mark
3. Country identifier
4. Fire rating
5. Test
6. Limitations
7. Manufacturer
8. Manufacturer's part number
9. Installation instructions
10. Serial number
11. Intertek part number
12. Special instructions

INFORMATION FOUND ON A WARNOCK HERSEY LABEL



Fire Door Inspections

13 points of verification

Labels and listing for hardware components.

- Swinging Fire Doors with Builders Hardware
 - Marked with emblems and symbols
 - F, f, ff
 - UL
 - ETL
 - Embossed, stamped, or applied



exit device



door bolt



mortise lock



continuous hinge

Missing Fire Labels

- **NFPA 80 -2016**
- **5.1.4 Field Labeling**
- **5.1.4.1*** Field labeling shall be performed only by individuals or companies that have been certified or listed, or by individuals or companies that are representatives of a labeling service that maintains periodic inspections of production of labeled equipment or materials and by whose labeling the manufacturer indicates compliance with appropriate standards or performance in a specified manner.



Fire Door Inspections

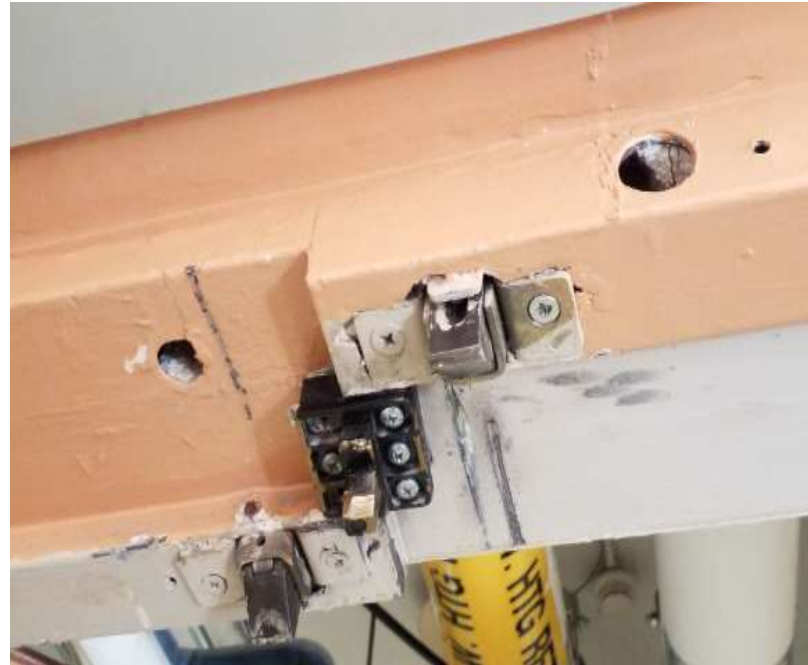
13 points of verification

(2) No open holes or breaks exist in surfaces of either the door or frame.

- **5.5.7** When holes are left in a door or frame due to changes or removal of hardware or plant-ons, the holes shall be repaired by the following methods.
- (1) Install steel fasteners that completely fill the holes.
- (2) Fill the screw or bolt with the same material as the door or frame.



relocated closer exposing original mounting holes



frame head section of cross corridor doors



deadbolt never installed on opening



??? 9mm? in random, but uniform pattern

Fire Door Inspections

13 points of verification

(3) Glazing, vision light frames, and glazing beads are intact and securely fastened in place, if so equipped.

- **6.3.3.5** Only labeled fire protection glazing or fire resistance glazing shall be used to glaze light openings.



Fire Door Inspections

13 points of verification

(4) The door, frame, hinges, hardware, and noncombustible threshold are secured, aligned, and in working order with no visible signs of damage.

- **5.5.5** Where a fire door, frame, or any part of its appurtenances is damaged to the extent that it could impair the door's proper emergency function, the following actions shall be performed:
 - (1) The fire door, frame, door assembly, or any part of its appurtenances shall be repaired with labeled parts or parts obtained from the original manufacturer.
 - (2) The door shall be tested to ensure emergency operation and closing upon completion of the repairs.



exit device trim



mortise lock

Fire Door Inspections

13 points of verification

(5) No parts are missing or broken.



exit device



strike



removable mullion

Fire Door Inspections

13 points of verification

(6) Door clearances do not exceed clearances listed in 4.8.4 and 6.3.1.7.

– **4.8.4 Clearance**

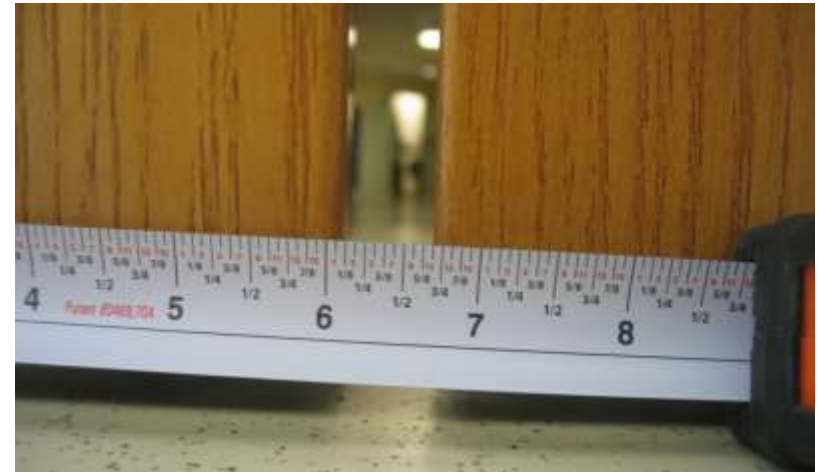
- **4.8.4.1*** The clearance under the bottom of a door shall be a maximum of $\frac{3}{4}$ " in. (19mm).

– **6.3.1.7* Clearances**

- **6.3.1.7.1** The clearances between the top and vertical edges of the door and the frame, and the meeting edges of doors swinging in pairs, shall be $\frac{1}{8}$ in. $\pm \frac{1}{16}$ in. for steel doors and shall not exceed $\frac{1}{8}$ in. for wood doors.



mechanical room (wood door and hollow metal frame)



cross corridor doors

Fire Door Inspections

13 points of verification

(6) Door clearances do not exceed clearances listed in 4.8.4 and 6.3.1.7.

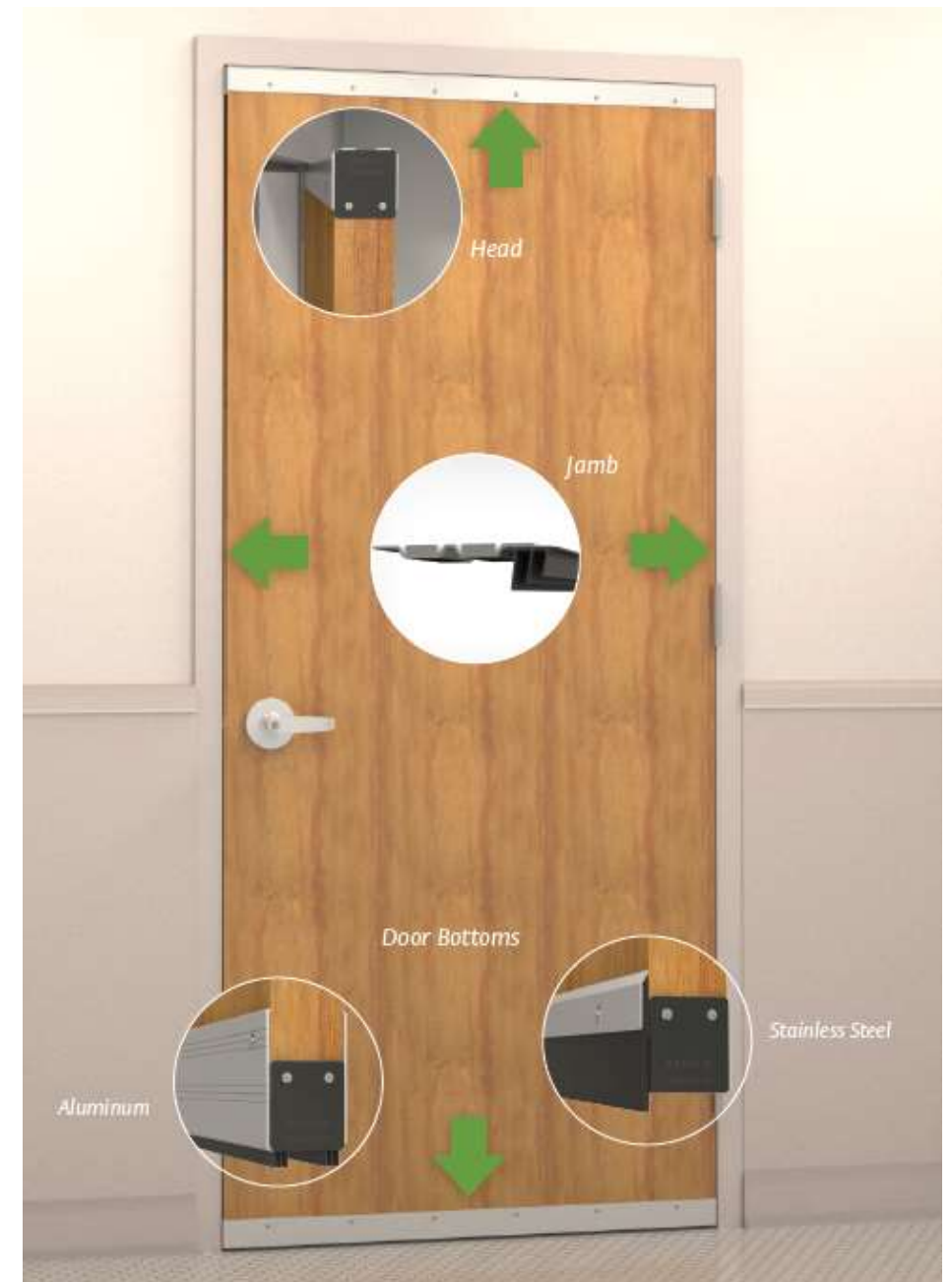
– Excessive gaps occur when:

- Frames are installed incorrectly (alignment – plumb, square, level)
- Doors are improperly sized
- Hardware or flooring changes
- Door sags (improper hardware application, loose hardware, wear and tear, etc.)
- A building settles over time



Excessive Door Gap Solutions

- Seals gaps and clearances that exceed the requirements of NFPA 80
- UL Certified for 90 minute fire doors
- No special preparation needed on existing doors
- Can be used on steel composite, hollow metal doors, wood and plastic-covered composite core doors

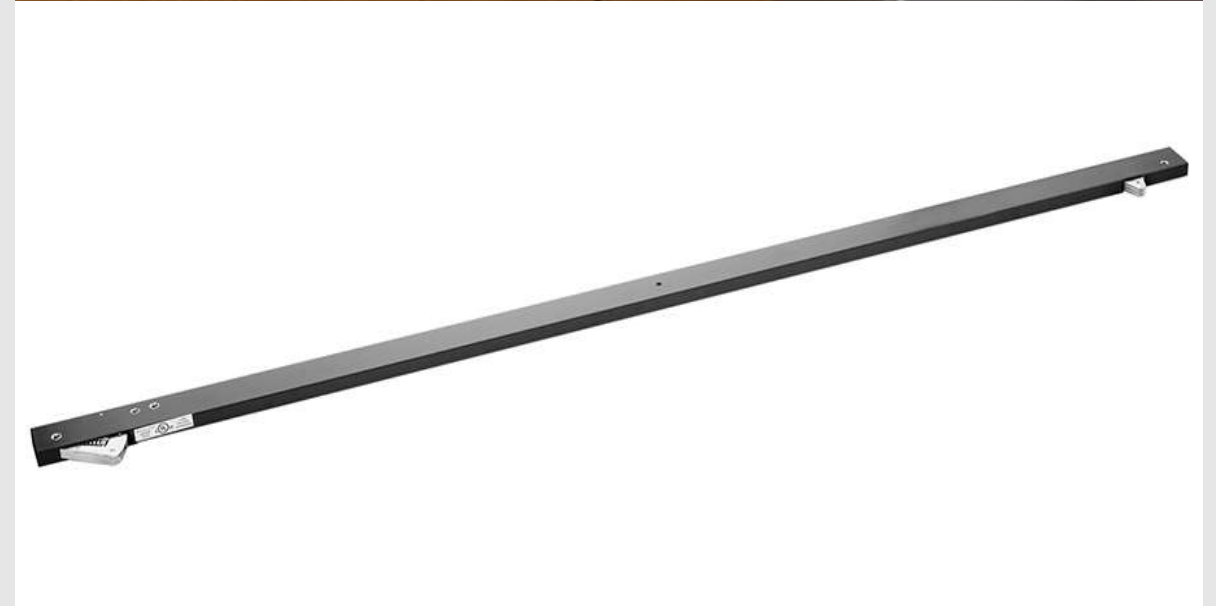


Fire Door Inspections

13 points of verification

(7) The self-closing device is operational; that is, the active door completely closes when operated from the full open position.

(8) If a coordinator is installed, the inactive leaf closes before the active leaf.



Fire Door Inspections

13 points of verification

(9) Latching hardware operates and secures the door when it is in the closed position.

- **6.1.3 Operation of Doors** All swinging doors shall be closed and latched at the time of fire.
- **Common issues preventing closing and latching:**
 - Latching hardware is damaged or misaligned
 - Incorrect hardware application
 - Doors are propped open
 - Door closer is missing, damaged or incorrectly adjusted



classroom wood door in hollow metal frame

Fire Door Inspections

13 points of verification

(10) Auxiliary hardware items that interfere or prohibit operation are not installed on the door or frame.

– Common issues with auxiliary hardware:

- Incorrect hardware application
- Hardware is not listed/labeled.
- Used to prop doors open



exterior mechanical door

Fire Door Inspections

13 points of verification

(11) No field modifications to the door assembly have been performed that void the label.

- **4.1.3.2** For jobsite preparation of surface applied hardware, function holes for mortise locks and holes for labeled viewers, a maximum $\frac{3}{4}$ in. (19mm) wood and composite door undercutting, and protection plates (see 6.4.5) shall be permitted.
- **4.1.3.3** Surface applied hardware shall be applied to the door or frame without removing material other than drilling round holes to accommodate cylinders, spindles, similar operational elements, and through-bolts in doors
- **4.1.3.4** The holes described in 4.1.3.3 shall not exceed a diameter of 1 in. (25.4mm), with the exception of cylinders.



electric strike with mortise lock



electric strike with cylindrical lock

Fire Door Inspections

13 points of verification

(12) Meeting edge protection, gasketing and edge seals, where required, are inspected to verify their presence and integrity.

– **Common issues gasketing:**

- Hardware is not listed/labeled.
- Incorrect modification during installation
- damage



fire/smoke gasketing

Ratings



Air Infiltration Tested



Intertek Testing (Warnock Hersey)



Sound Tested - ASTM E90



BHMA Certified



Smoke Tested - UL1784



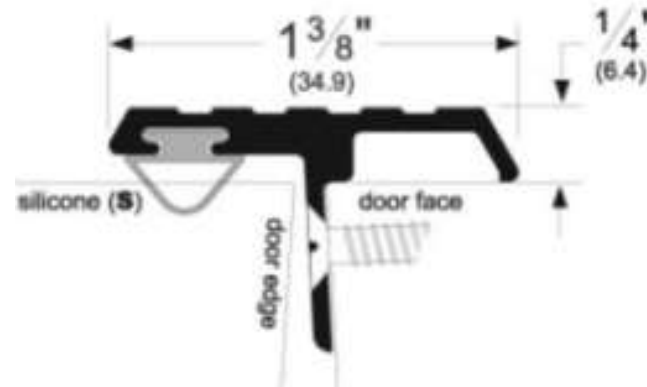
Fire Rated - Edge Seals - UL10C - Positive Pressure



Underwriters Laboratory 4L10



GREENGUARD Gold Certified



"T" astragal

Ratings



Air Infiltration Tested



Smoke Tested - UL1784



Fire Rated - UL10C - Positive Pressure



Underwriters Laboratory 4L10



GREENGUARD Gold Certified

Fire Door Inspections

13 points of verification

(13) Signage affixed to a door meets the requirements listed in 4.1.4.

- **4.1.4.1** The total area of all attached signs shall not exceed 5 percent of the area of the face of the fire door to which they are attached .
- **4.1.4.2.1** Signs shall be attached to fire doors by use of an adhesive.
- **4.1.4.2.2** Mechanical attachments such as screws or nails shall not be permitted.
- **4.1.4.3** Signs shall not be installed on glazing material in fire doors.
- **Common issues with auxiliary hardware:**
 - Exceeds 5% of door surface area
 - Decorations
 - Signage on fire rated glazing



office door off corridor

Fire Door Inspections

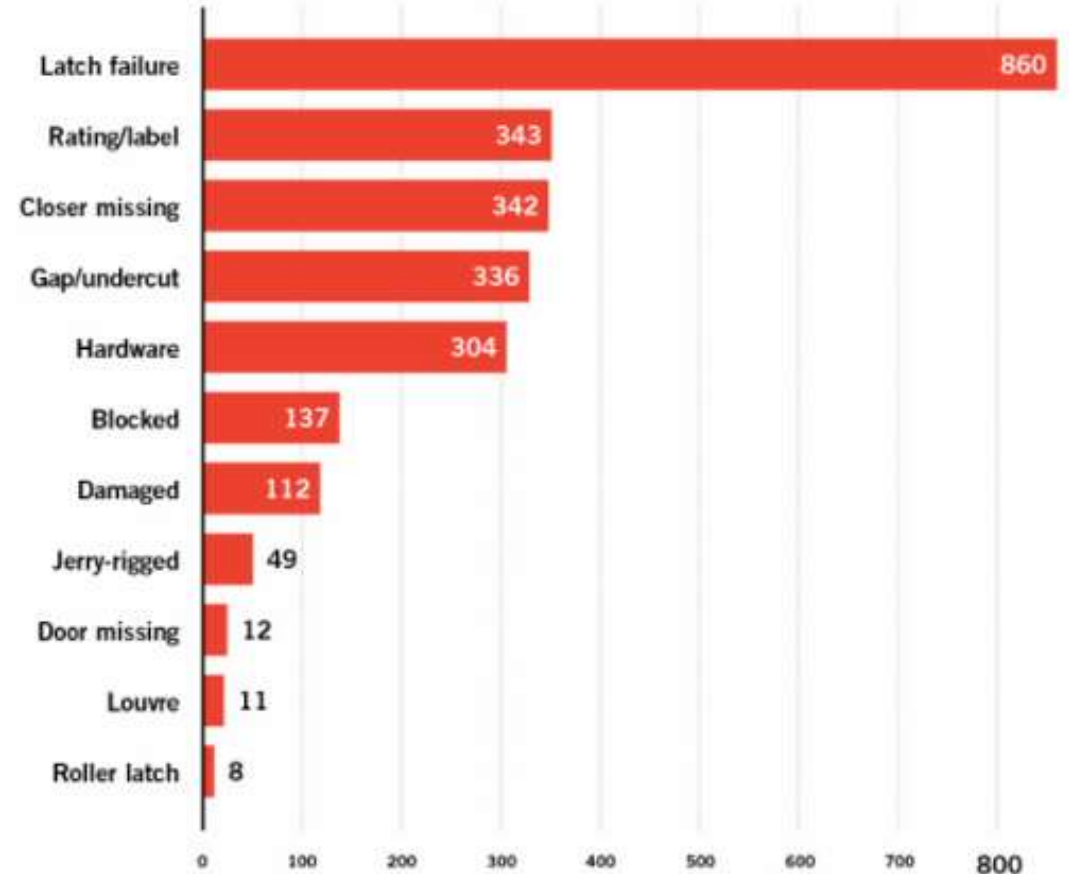
"ASHE has contracted with the Center for Health Design (CHD) to research why the failure rate of fire doors in hospitals is as high as is being documented during accreditation surveys."

– Possible contributing factors:

- Inaccurate or lack of fire door inspection at time of construction
- Inaccurate annual fire door inspections
- Non-compliant field modifications to openings
- Lack of regular maintenance program

DOOR INSPECTION AND MAINTENANCE

Top reasons for LS.02.01.10 and LS.02.01.30 door failures



Joint Commission findings related to fire-door maintenance.

NFPA 80 Reporting Requirements

- **5.2.2.4** A record of all inspections and testing shall be provided that includes, but is not limited to, the following information:
 - **(1)** Date of inspection
 - **(2)** Name of facility
 - **(3)** Address of facility
 - **(4)** Name of person(s) performing inspections and testing
 - **(5)** Company name and address of inspecting company
 - **(6)** Signature of inspector of record
 - **(7)** Individual record of each inspected and tested fire door assembly
 - **(8)*** Opening identifier and location of each inspected and tested fire door assembly
 - **(9)*** Type and description of each inspected and tested fire door assembly
 - **(10)*** Verification of visual inspection and functional operation
 - **(11)** Listing of deficiencies in accordance with 5.2.3, Section 5.3, and Section 5.4

NFPA 80 Record Keeping Requirements

■ 5.2.2.2

- Unless a longer period is required by section 5.4, records shall be retained for a period of at least **3 years**.

■ 5.2.2.3

- The records shall be on a medium that will survive the retention period. Paper or electronic media shall be permitted.

INSPECTION CHECKLIST 2008

Date _____, 2008
Pg. _____ of _____

BUILDING NAME _____

Door Number	Fire-Rating	Door Location	Compliant
			<input type="checkbox"/> YES <input type="checkbox"/> NO
Remarks:			

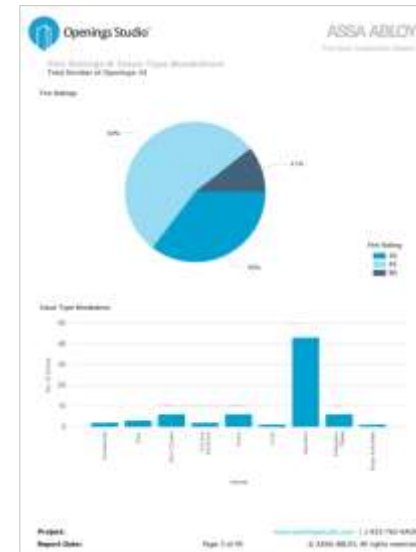
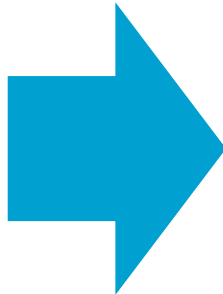
FRAME <ul style="list-style-type: none"><input type="checkbox"/> Loose Frame<input type="checkbox"/> Damaged Frame<input type="checkbox"/> Rust-through on Frame<input type="checkbox"/> Missing Label<input type="checkbox"/> Frame is Out of Alignment<input type="checkbox"/> Incorrect Glass in Sidelight or Transom-light<input type="checkbox"/> Broken Glass in Sidelight or Transom-light<input type="checkbox"/> Missing Glazing Bead at Light(s)<input type="checkbox"/> Missing Glazing Bead Screw(s)<input type="checkbox"/> Improper Field Modification (Explain Modification)<input type="checkbox"/> Incorrect Hardware Preparation (Explain)<input type="checkbox"/> Unused Fastener Hole(s) in Frame<input type="checkbox"/> Other _____	DOOR (cont.) <ul style="list-style-type: none"><input type="checkbox"/> Loose Light Kits<input type="checkbox"/> Missing Light Kit Screw(s)<input type="checkbox"/> Improper Field Modification (Explain Modification)<input type="checkbox"/> Incorrect Hardware Preparation (Explain)<input type="checkbox"/> Unused Fastener Hole(s) in Door(s)<input type="checkbox"/> Improper Plant-ons<input type="checkbox"/> Replace Door<input type="checkbox"/> Other _____	HINGES/PIVOTS <ul style="list-style-type: none"><input type="checkbox"/> Missing Hinge(s)<input type="checkbox"/> Incorrect Hinge(s)<input type="checkbox"/> Loose Hinge(s)<input type="checkbox"/> Missing Screw(s)<input type="checkbox"/> Replace Hinge(s)<input type="checkbox"/> Other _____	LOCKS <ul style="list-style-type: none"><input type="checkbox"/> Missing Lock<input type="checkbox"/> Incorrect Latch Bolt Throw<input type="checkbox"/> Non-fire Rated Latch Bolt<input type="checkbox"/> Latch Bolt Binds<input type="checkbox"/> Latch Bolt Missing<input type="checkbox"/> Loose Lever(s) or Knob(s)<input type="checkbox"/> Latch Bolt Does NOT Engage Strike<input type="checkbox"/> Missing Strike Plate<input type="checkbox"/> Missing Screw(s)<input type="checkbox"/> Missing Flush Bolt<input type="checkbox"/> Missing Flush Bolt Strike<input type="checkbox"/> Other _____	FIRE EXIT HARDWARE (cont.) <ul style="list-style-type: none"><input type="checkbox"/> Other _____<input type="checkbox"/> Missing Door Closer(s)<input type="checkbox"/> Leaking Door Closer(s)<input type="checkbox"/> Missing Arm(s)<input type="checkbox"/> Broken Arm(s)<input type="checkbox"/> Missing Closer(s)<input type="checkbox"/> Does NOT Close Door Completely<input type="checkbox"/> Missing Screw(s)<input type="checkbox"/> Missing Drop and/or Adapter Plate(s)<input type="checkbox"/> Hold-open Arm(s)<input type="checkbox"/> Missing Coordinator<input type="checkbox"/> Missing Carry Bar<input type="checkbox"/> Broken Coordinator<input type="checkbox"/> Broken Carry Bar<input type="checkbox"/> Overhead Hold-open (Surface or Concealed)<input type="checkbox"/> Other _____	MISCELLANEOUS <ul style="list-style-type: none"><input type="checkbox"/> Missing Threshold/ Saddle<input type="checkbox"/> Incorrect Clearance (Top of Door to Frame)<input type="checkbox"/> Incorrect Clearance (Hinge Edge to Frame)<input type="checkbox"/> Incorrect Clearance (Lock Edge to Frame)<input type="checkbox"/> Incorrect Clearance (Door Bottom to Floor)<input type="checkbox"/> Incorrect Clearance (Between Doors)<input type="checkbox"/> Missing Astragal<input type="checkbox"/> Missing or Damaged Gasketing/Smoke Seal<input type="checkbox"/> Kick-down Door Holder<input type="checkbox"/> Door Wedge<input type="checkbox"/> Door Stop with Hold Open (Manual)<input type="checkbox"/> Protection Plate(s) too Large<input type="checkbox"/> Protection Plate(s) Missing screw(s)<input type="checkbox"/> Signage Too Large<input type="checkbox"/> Signage, Screwed/Nailed to Door<input type="checkbox"/> Other _____
DOOR <ul style="list-style-type: none"><input type="checkbox"/> Missing Door(s)<input type="checkbox"/> Missing Label<input type="checkbox"/> Damaged Door(s) (e.g., Dented, Bent)<input type="checkbox"/> Rust-through on Door(s)<input type="checkbox"/> Delamination of Door Skin or Face<input type="checkbox"/> Incorrect Glass in Light(s)<input type="checkbox"/> Broken Glass in Light(s)<input type="checkbox"/> Light(s) is/are Too Large	OPERATIONAL TEST <ul style="list-style-type: none"><input type="checkbox"/> Door Does NOT Swing Freely<input type="checkbox"/> Door Does NOT Close Completely<input type="checkbox"/> Door Does NOT Securely Latch<input type="checkbox"/> Electric Door Release Does NOT Allow Door to Close<input type="checkbox"/> Door Bottom Drags Against Floor Material<input type="checkbox"/> Door Rubs Against Frame<input type="checkbox"/> Edges of Paired Doors Overlap<input type="checkbox"/> Coordinator Does NOT Function Properly<input type="checkbox"/> Other _____	DOOR BOLTS <ul style="list-style-type: none"><input type="checkbox"/> Missing Top Flush Bolt<input type="checkbox"/> Missing Bottom Flush Bolt<input type="checkbox"/> Missing Strike (Top Bolt)<input type="checkbox"/> Missing Strike (Bottom Bolt)<input type="checkbox"/> Bottom Bolt does NOT Engage Strike<input type="checkbox"/> Missing Bolt Head (Top)<input type="checkbox"/> Missing Bolt Head (Bottom)<input type="checkbox"/> Missing Rub Plate(s)<input type="checkbox"/> Incorrect Type of Flush Bolt(s)<input type="checkbox"/> Other _____	FIRE EXIT HARDWARE <ul style="list-style-type: none"><input type="checkbox"/> Missing Fire Exit Device<input type="checkbox"/> Missing Latch Bolt Assembly (Top)<input type="checkbox"/> Missing Latch Bolt Assembly (Bottom)<input type="checkbox"/> Missing Strike(s)<input type="checkbox"/> Missing Vertical Rod (Top)<input type="checkbox"/> Missing Vertical Rod (Bottom)<input type="checkbox"/> Push Bar Does NOT Extend Halfway Across Door Width<input type="checkbox"/> Non-fire Rated Panic Hardware (Dogging)<input type="checkbox"/> Missing Lever or Knob		





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Fire Door Inspection Reporting



 Openings Studio® Fire Door Inspection Report	
Level: 1ST Floor	Mark: D1063B
Description: 6' 0" x 8' 0" x 1 3/4"	
Secure Side 	Hardware Set #: 13.0 Qty Type Description 7 Hinge (not weight) 1 Elec. Hinge (not weight) 1 Exit Device (DM, stainless) 1 Exit Device (DM, stainless) 1 Blank Cylinder 1 Mortise Cylinder 2 Surface Closer 1 Threshold 1 Castoring 2 Pullstrap 2 Handle 2 Pushon Switch 1 Card Reader 1 Motion Sensor 1 Pullman Sensor 1 Power Supply
Non-Secure Side 	Part Description TAZ201A x 1/2" + 1/2" QCLD 12 UC 8700 RTN 12 UC 86 RTN RTN part number needed part number needed PCH201RT Bonus Code: CLS 275CA 188RL 219TR 245CDBL 275TL 895G 985G Central Power Supply by Security Integrator
	Finish US3D US3D US3D Other ASGA High Security Lock Norton Door Controls Pemko Pemko Pemko Senior L3345 HID Global Securiton
Issue Comments:	Opening Remarks:
OLB: Closer not securely fastened Issue Status: Non-Compliant	
 Close Up	
Project: Report Date:	www.openingstudio.com © ASSA ABLOY, All rights reserved

Fire Door Inspection Reporting


- Actionable reporting
- Complete record of opening
 - Detailed information on installed door, frame, hardware components
 - Images of opening from secured/unsecured sides
- Issues clearly identified
- Customizable link-outs to product collateral information
 - Default links to non-proprietary database of product catalogs

**Openings Studio™**


ASSA ABLOY
Fire Door Inspection Report

Level: 1ST FLOOR
Mark: D1063B
Description: 6' 0" x 8' 0" x 1 3/4"

Secure Side



Non-Secure Side




Hardware Set #: 13.0

Qty	Type	Description
7	Hinge	(std weight)
1	Elec Hinge	(std weight)
1	Exit Device	(SVR, storeroom)
1	Exit Device	(SVR, storeroom)
1	Blank Cylinder	
1	Mortise Cylinder	
2	Surface Closer	
1	Threshold	
1	Gasketing	
2	Astragal	
2	Sweep	
2	Position Switch	
1	Card Reader	
1	Motion Sensor	
1	Power Supply	

Hardware Set Notes:

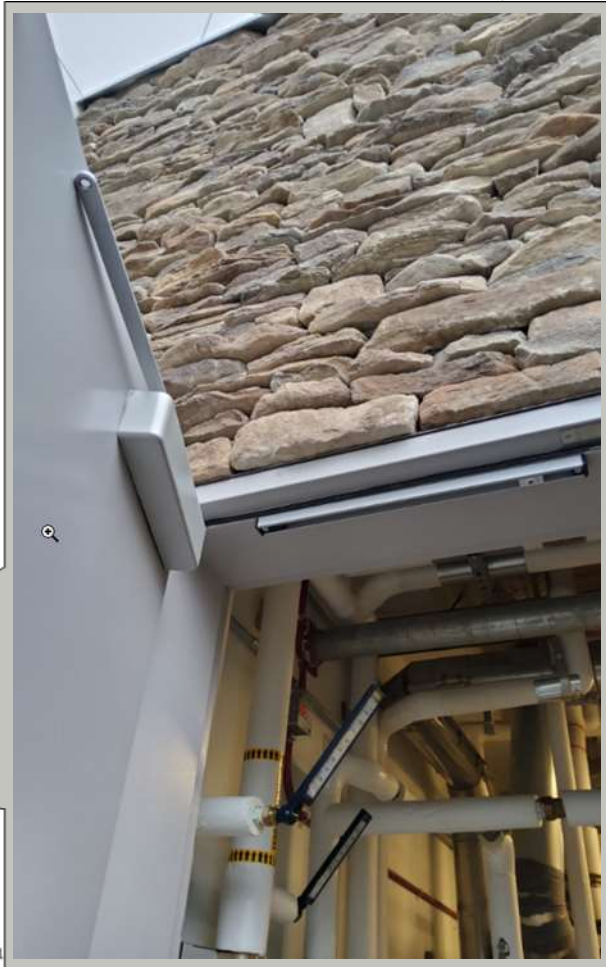
Issue Comments:

CL6: Closer not securely fastened
Issue Status: Non-Compliant



CL6-1

Project:
Report Date:



Page 41

Fire Door Inspection Reporting

- Actionable reporting
- Complete record of opening
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 - Images of opening from secured/unsecured sides
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Level: 1ST FLOOR

Mark: D1063B

Description: 6' 0" x 8' 0" x 1 3/4"

ASSA ABLOY
Fire Door Inspection Report

Norton
ASSA ABLOY

Page Revised Electronically 4/15

2800ST SERIES
CAM ACTION DOOR CLOSER

STANDARD APPLICATIONS:

2800ST HINGE (PULL) SIDE OF DOOR

- Minimum interior door width: 54" (137cm).
- An auxiliary stop (by others) is suggested where severe conditions exist.
- 140° swing (lim. permitting).

Note: Door openings to 160° can be achieved if an auxiliary door stop (by others) is installed to dead stop the door. Consult factory for details.

NOTE: Consult factory for use on doors exceeding 250 lbs.

PS2800ST STOP (PUSH) SIDE OF DOOR

- Minimum frame reveal is 1-1/2" (13mm).
- An auxiliary door stop is suggested when severe conditions exist.
- 110° swing (lim. permitting).

Note: Door openings up to 130° can be achieved if an auxiliary door stop (by others) is installed to dead stop the door. Consult factory for details.

Part Description	Finish	Power	Manufacturer
TA2314 4-1/2" x 4-1/2"	US26D		McKinney
TA2314 4-1/2" x 4-1/2" QC12	US26D	⚡	McKinney
12 LC 8706 ETB	US32D		SARGENT
12 LC 56 8706 ETB	US32D	⚡	SARGENT
part number needed			Other
part number needed			ASSA High Security Locks
PS2800ST	689		Norton Door Controls
Issue Code: CL6			
270A			Pemko
S88BL			Pemko
329CN			Pemko
3452CNB			Pemko
2757L		⚡	Sentrol 12345
RP40		⚡	HID Global
XMS		⚡	Securitron
Central Power Supply by Security Integrator			

Opening Remarks:

Project:

Report Date:

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Page 41 of 110

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Repairs

– 5.5 Maintenance

- **5.5.1*** Repairs shall be made, and defects that could interfere with operation shall be corrected without delay.
- Replacing worn out hardware
 - Hinges, locks/latches, door closers, gasketing, etc.
- Replacing broken glazing
- Tightening/replacing fasteners
 - Builders hardware requires special fasteners
- Filling unused fastener holes in doors and frames
 - Steel/stainless steel screws, fire door caulk
- Monitoring/adjusting door clearances
 - Steel shims, gap filling solutions
- Replacing small parts
 - Strike plates, end caps, covers, gasketing, etc.



Managing Opening Maintenance

- Detailed inventory of openings
- Accurate identification of fire rated, smoke rated and egress doors
- Reporting capabilities
 - Meeting CMS and NFPA 80 requirements
 - Actionable for remediation
 - Record storage
- Tools to access opening data remotely or at the opening



Q&A

Fire Door Inspections...



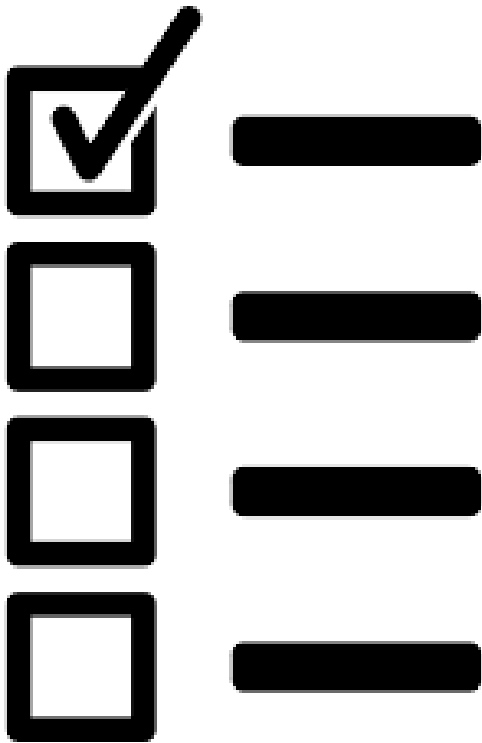
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Reporting...

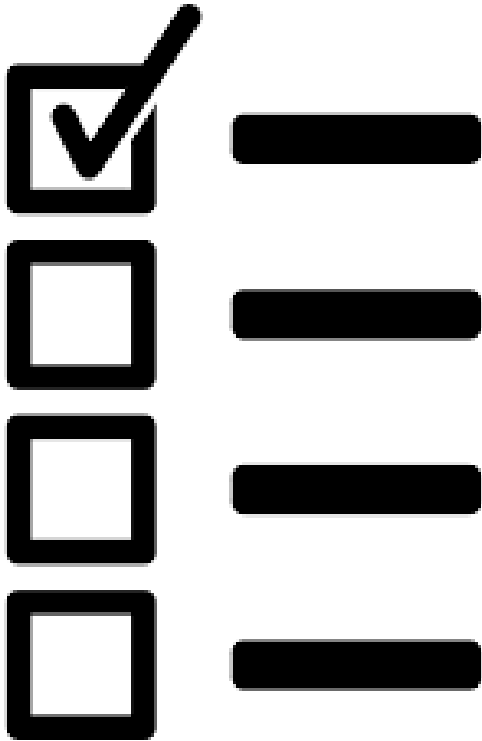


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Remediation...



Design Standards...



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