

Preparing for Fire Door Inspections





Why can't I prop the door open with a wedge? I'll be nearby in case of a fire.



I don't want anyone using that exit door. Do something so people have to use a different door.



There's room in the hall next to the fire exit. Let's store those big boxes there.



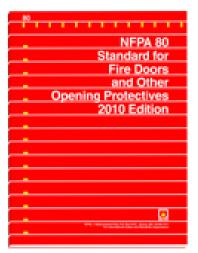
That fire door doesn't always close all the way. Fix it whenever you get time.

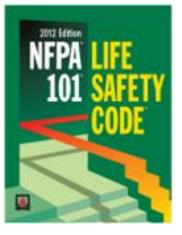


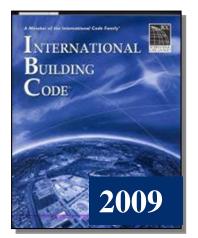
Have you inspected the fire doors?



Fire Door Requirements

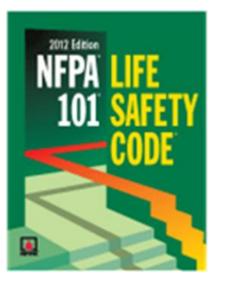








NFPA 101 2012 Edition

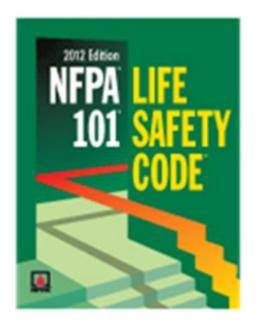


7.2.1.15.1 "Where required..., the following door assemblies shall be inspected and tested not less than annually...

(1) Door leaves equipped with panic hardware or fire exit hardware

- (2) Door assemblies in exit enclosures
- (3) Electrically controlled egress doors

(4) Door assemblies with special locking arrangements





Per 7.2.1.15.2 "Fire-rated door assemblies shall be inspected and tested in accordance with NFPA 80, ..."

Chapter 5 Care and Maintenance

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NFPA 80
Standard for
Fire Doors
and Other
Opening Protectives
2010 Edition
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THE OWNER AND A DESCRIPTION OF A DESCRIP



Per 5.1.1.2 "The requirements of this chapter shall apply to **new and existing** installations."

Per 5.1.5.1 "Repairs shall be made, and defects that could interfere with operation shall be corrected without delay."





Per 5.1.5.2.1

"In cases where a field modification to a fire door assembly is desired, the laboratory with which the product or component being modified is listed shall be contacted and a description of the modifications shall be presented to the laboratory."

Field Modifications



Per 5.2.1 "Fire door assemblies shall be inspected and tested not less than annually, and a written record of the inspection shall be signed and kept for the inspection by the AHJ."





Per 5.2.3.1 "Functional testing of fire door and window assemblies shall be performed by **individuals with knowledge and understanding** of the operating components of the type of door subject to testing."

Knowledge and Understanding

• VonDuprin 98/99 Rim Exit Device



SCREW CHART

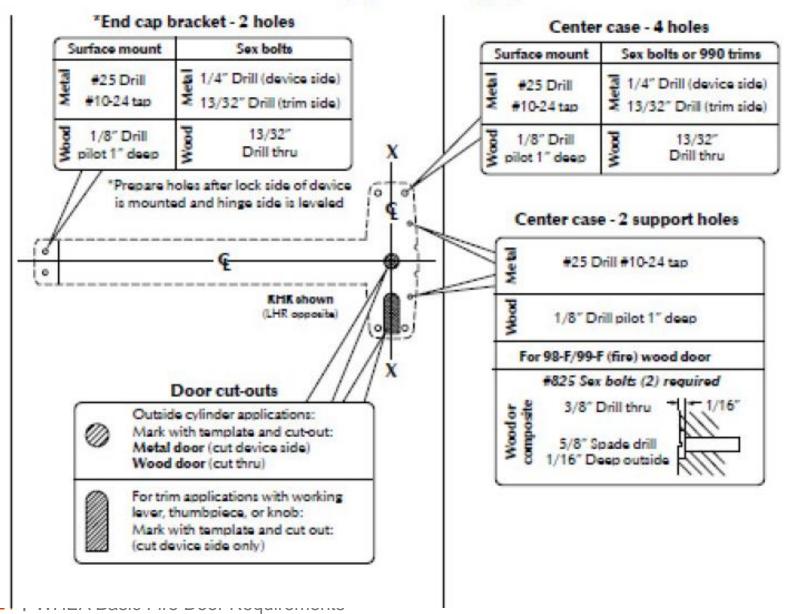
Subassembly	Sc	Subassembly Screw Application							
a		#10-24 x ¾" (19 mm)	Metal frame						
299 Strike 499F Strike		#10 x 1½" (38 mm) Wood screw	Wood frame						
8		#10-24 x 1" (25 mm)	Surface mount or Sex bolts 1¾" (44 mm) door						
		#10-24 x 1½" (38 mm)	Sex bolts, 2¼" (57 mm) do						
		#10 x 1¼" (32 mm) Wood screw	Surface mount (wood)						
·	Packaged with 990 Trims:	#10-24 x 1%" (35 mm)	1¾" (44 mm) door, 990 Trii						
		#10-24 x 1%" (48 mm)	2¼" (57 mm) door, 990 Tri						
Θ		#10-24 x ¾" (19 mm)	Surface mount or Sex bolt 1¾" (44 mm) door						
		#10-24 x 1½" (29 mm)	Sex bolts, 2¼" (57 mm) do						
97 - 20 97 - 20 97 - 20		#10 x 1¼" (32 mm) Wood screw	Surface mount (wood)						
D		#10-16 x %" (10 mm) Thread cutting	End cap						
6		#10-24 x 1" (25 mm)	Surface mount (metal)						
		#10 x 1¼" (32 mm) Wood screw	Surface mount (wood)						
		#8-18 x %" (10 mm) Thread cutting	Center case cover						

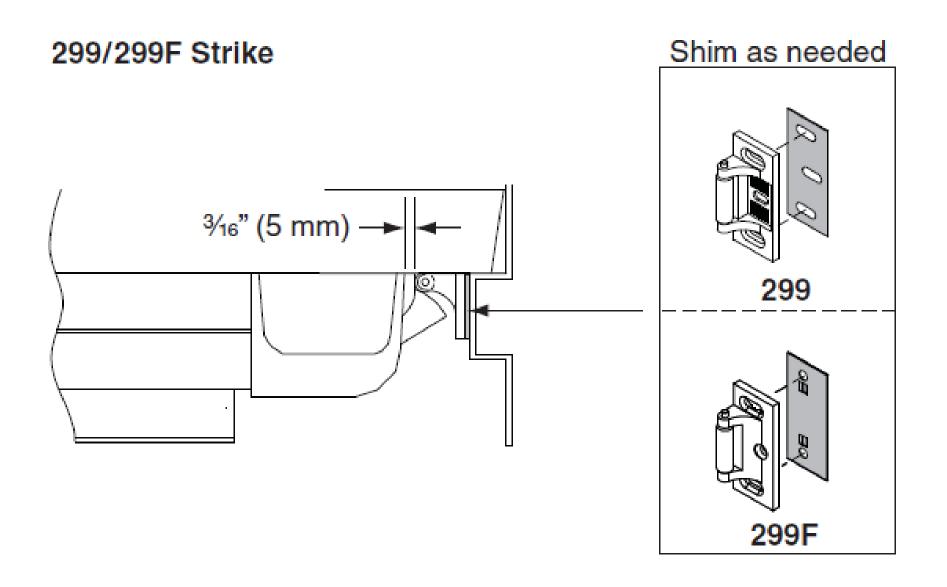
19 | WHEA Bas

Subassembly	Screw		
		#10-24 x ¾" (19 mm)	
299 Strike 499F Strike		#10 x 1½" (38 mm) Wood screw	
C		#10-24 x ¾" (19 mm)	
		#10-24 x 1½" (29 mm)	
		#10 x 1¼" (32 mm) Wood screw	
E		#10-24 x 1" (25 mm)	
		#10 x 1¼" (32 mm) Wood screw	

PREPARATION CHART

Go to instructions on next page before using preparation chart





Per 5.2.3.2 "Before testing, a visual inspection shall be performed to identify any damaged or missing parts that can create a hazard during testing or affect operation or resetting."



Per 5.2.13.1 "Door openings and the surrounding areas shall be kept clear of anything that could obstruct or interfere with the **free operation of the door.**"

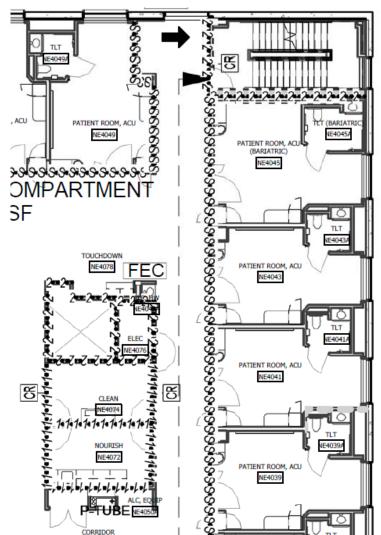


Which doors do I inspect? SMOKE COMPARTMENT A: 19,300 SF #24070 TUBE PART NO. 41.2.4 SPECIAL HOLE PER OF Rear I 11,000 1000000000 FEC SMOKE COMPARTMENT 146 FDV B: 4,500 SF -4400 FLA TNIG FEC PHONE INCOME NATE LINE AJV TKIE 000 5

Which doors do I inspect?

Where are my fire doors?

How can I tell?



INSPECTION CHECKLIST

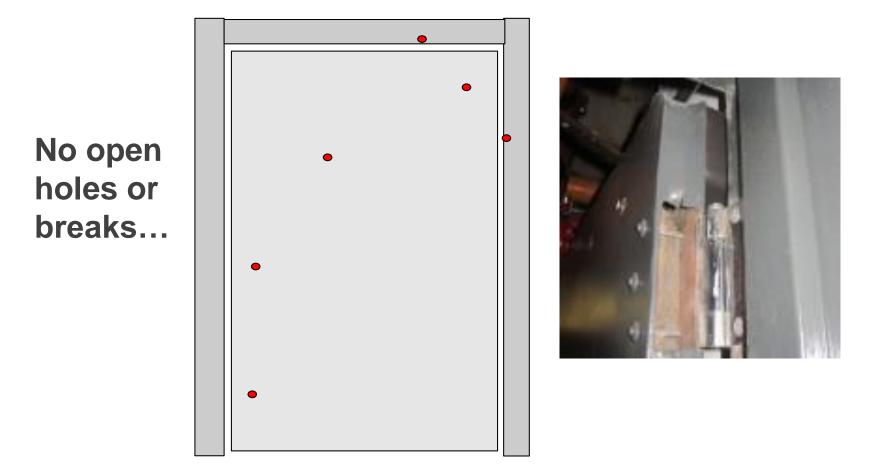
Date _____ Pg. _____ of _____

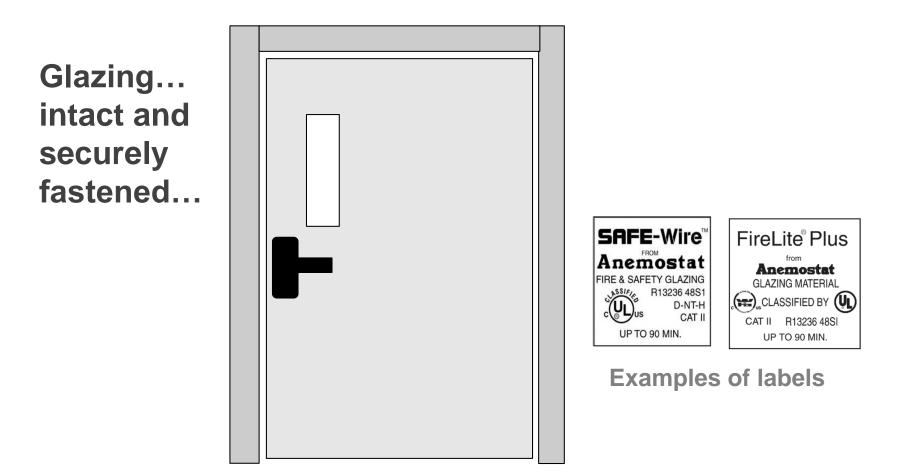
BUILDING NAME

Door Number	Fire-Rating Door Location				
Remarks:					Q YES Q NO
FRAME	DOOR (cont.)	HINGES/PIVOTS	LOCKS	FIRE EXIT HARDWARE (cont.)	MISCELLANEOUS
 Loose Frame Damaged Frame Rust-through on Frame Missing Labei Frame is Out of Alignment Incorrect Glass in Sidelight or Transom-light Broken Glass in Sidelight or Transom-light Missing Glazing Bead at Light(s) Missing Glazing Bead Screw(s) Improper Field Modification (Explain Modification) Incorrect Hardware Preparation (Explain) Unused Fastener Hole(s) in Frame Other	 Loose Light Kits Missing Light Kits Improper Field Modification (Ex Modification) Incorrect Hardw Preparation (Exp Preparation (Exp Unused Fastene in Door(s) Improper Plant-o Replace Door Other	t Screw(s) Incorrect Hinge(s) plain Missing Screw(s) Plain Missing Screw(s) Plain Other Plain Other Plain Other Plain Other POOR BOLTS Missing Bottom Flush Bolt Missing Bottom Flush Bolt Missing Bottom Flush Bolt Missing Strike (Top Bolt) Missing Strike (Bottom Bolt) ST Bottom Bolt does NOT Engage Strike Close Missing Bolt Head (Bottom) Missing Rub Plate(s) Platerial Inst Frame DOCR BOLTS Missing Rub Plate(s) Incorrect Type of Flush Bolt(s) Other Missing Rub Plate(s) Platerial Inst Frame Doors Platerial Missing Rub Plate(s) Platerial Missing Rub Plate(s) Missing Rub Plate(s) Platerial Missing Rub Plate(s) Platerial Missing Rub Plate(s) Platerial Missing Rub Plate(s) Platerial Missing Rub Plate(s) Missing Rub Plate(s) Platerial Missing Rub Plate(s) Platerial Platerial	 Missing Lock Incorrect Latch Bolt Throw Non-fire Rated Latch Bolt Latch Bolt Binds Latch Bolt Missing Loose Lever(s) or Knob(s) Latch Bolt Does NOT Engage Strike Missing Screw(s) Missing Flush Bolt Missing Flush Bolt Strike Other	Cther	 Missing Threshold/ Sade Incorrect Clearance (Top of Door to Frame) Incorrect Clearance (Lor Edge to Frame) Incorrect Clearance (Lor Edge to Frame) Incorrect Clearance (Do Bottom to Floor) Incorrect Clearance (Between Doors) Missing Astragal Missing Astragal Missing or Damaged Gasketing/Smoke Seai Kick-down Door Holder Door Wedge Door Stop with Hold Op (Manual) Protection Plate(s) too Large Signage Too Large Signage, Screwed/Naile to Door Other

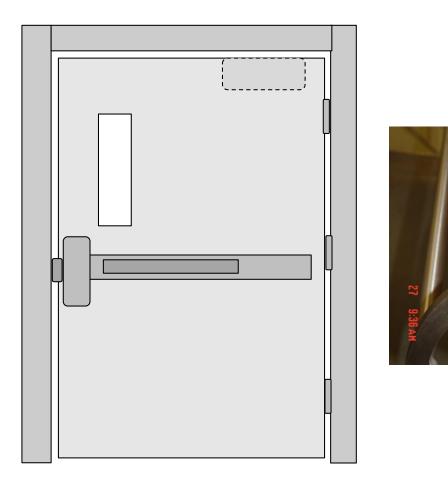
FORM 4

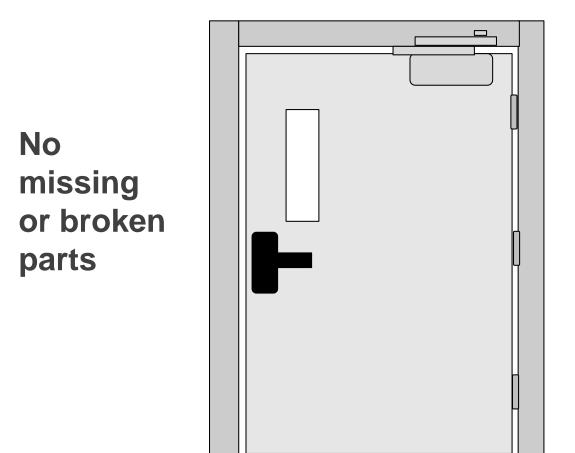
AS A MINIMUM!





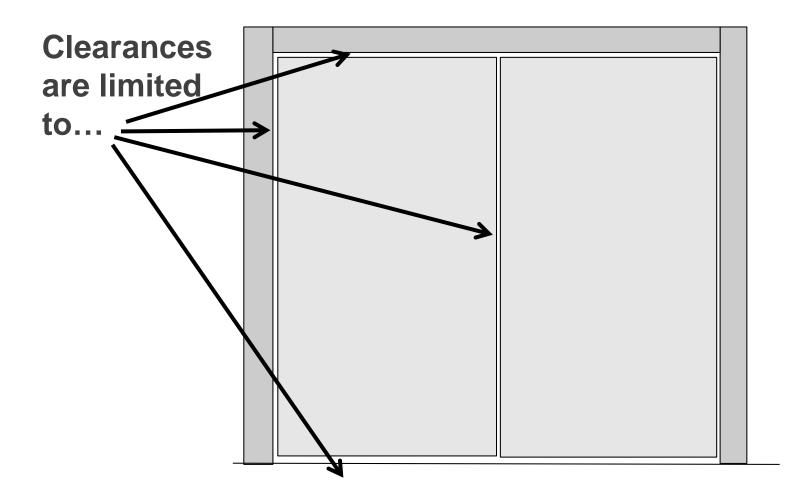
...secured, aligned, and in working order...



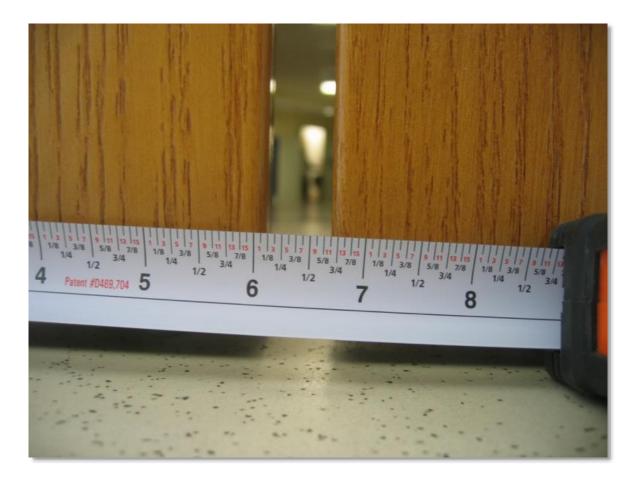


Missing Parts

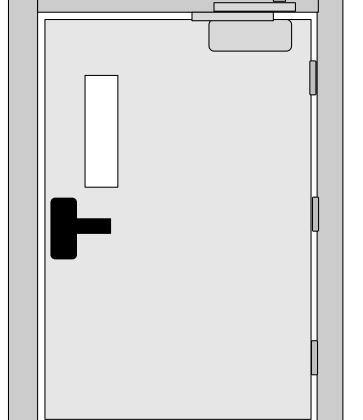




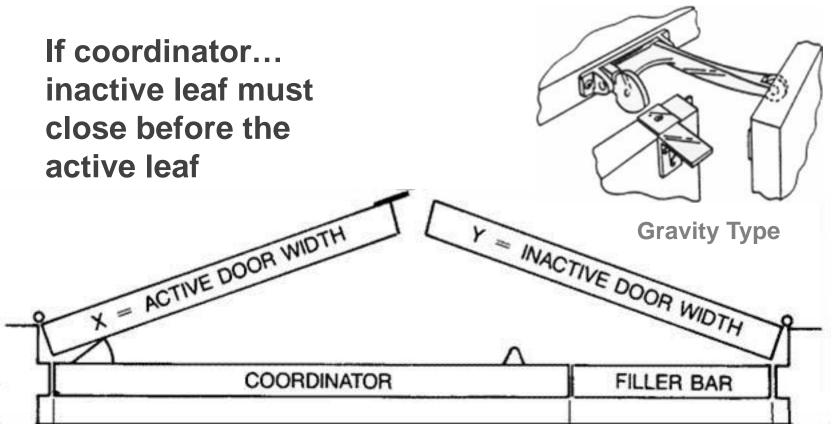
Clearances



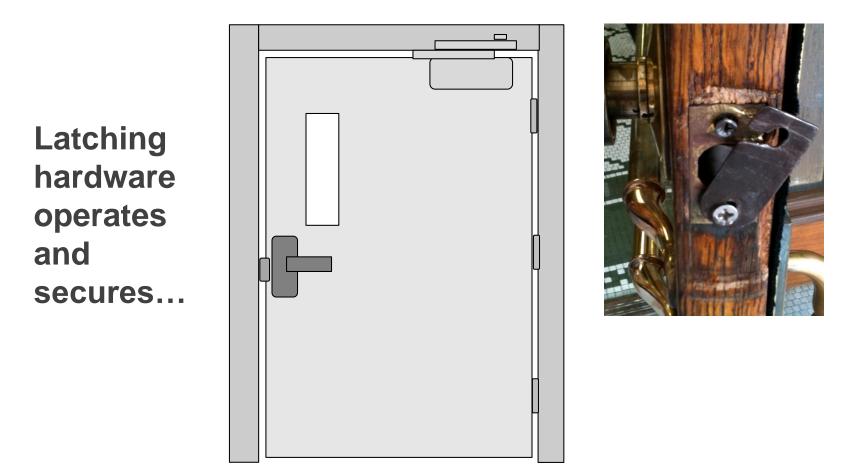
Selfclosing device... completely closes from full open position



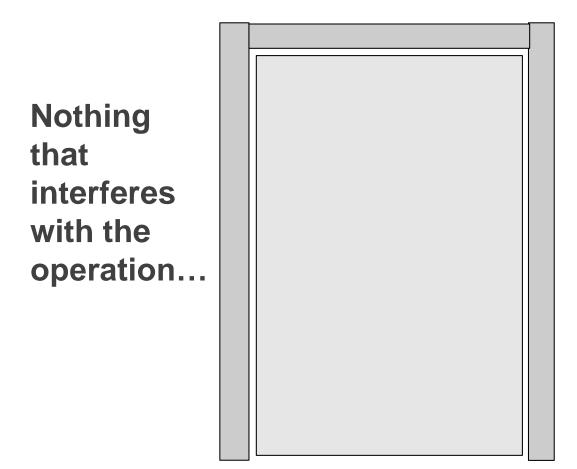




Bar Type

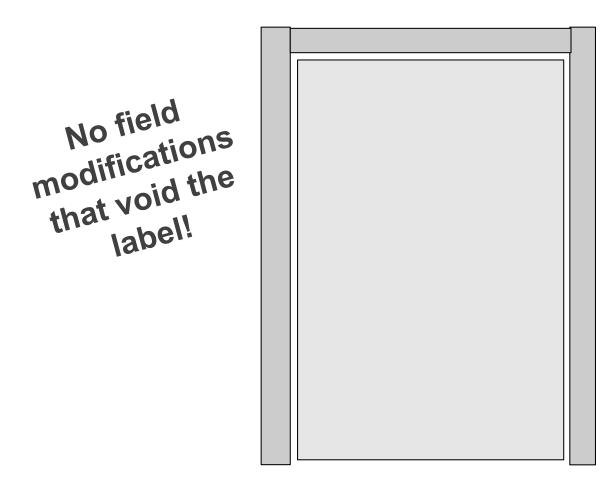


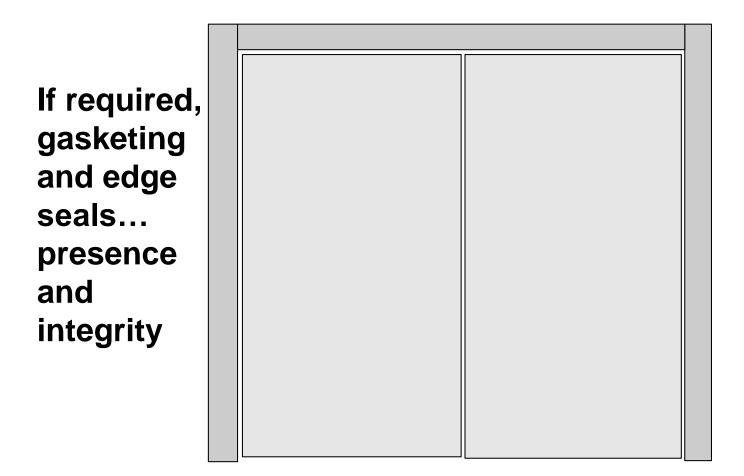




Interference







Per 5.2.1 "Fire door assemblies shall be inspected and tested not less than annually, and a written record of the inspection shall be signed and kept for the inspection by the AHJ."



The Performance-Based Option

When there are THOUSANDS of Fire Doors...

An AUDIT program

Subject to the AHJ







...with Properly-Functioning Fire Doors

With Properly-Functioning Fire Doors



At Minimum, What Will You Test & **Inspect?**



As A Minimum

5.2.4.2 As a minimum, the following items shall be verified:

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

More Information?

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