









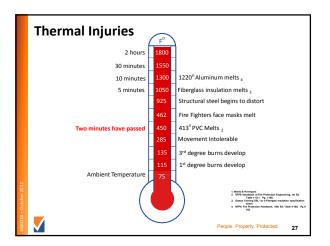


Speed

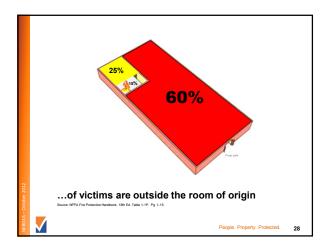
S moke & toxic gases travel up to 420 ft. /minute at temperatures of 1500 degrees or more.

Hallway - 100' long, 10' wide, 8' high Top of Wall joint = 5/8" high x 20 feet long Hallway will fill with smoke in 4-5 minutes

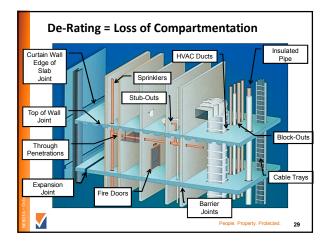




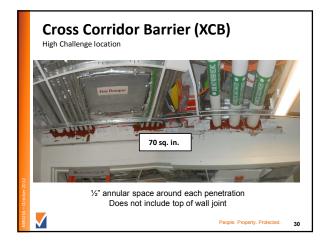






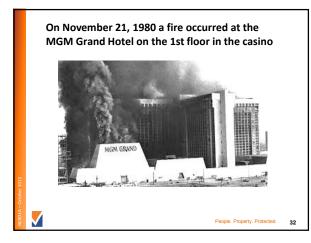




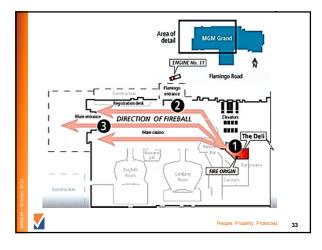




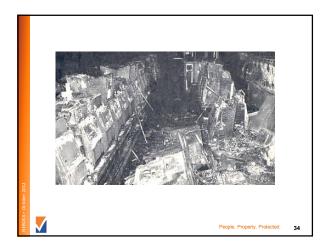




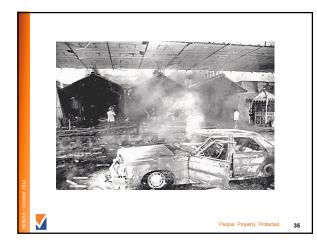


















February 2003 - 16 deaths











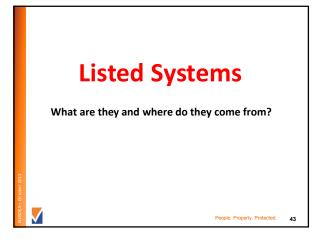


IBC 2009

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- Sections 712.3.1.2 & 712.4.1.2:
- "Through-penetrations shall be protected by an approved penetration firestop system installed as tested in accordance with ASTM E814...
 Sections 712.3.2 & 712.4.2 : <u>Membrane Penetrations</u>
- Section 712.1: Fire Resistive Joint Systems
 Section 712.4: Exterior Wall Assemblies

People. Property. Protected. 42

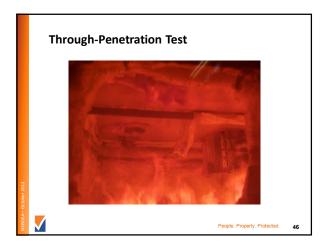




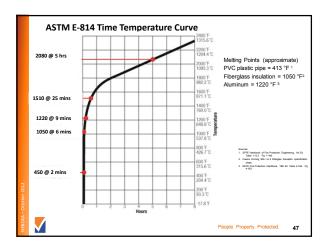
















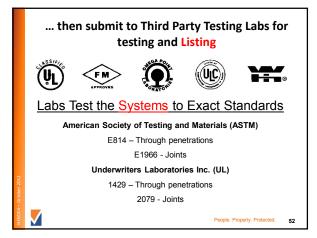
















ASTM E 814 / UL 1479 Test Standards for Through Penetration Firestop Systems

F-Rating

The duration of time in which **flames** must not pass through the **system**

T-Rating

 \checkmark

The time it takes for the **non-fire** side to reach 400°F

ASTM E 814 / UL 1479 Test Standards for Through Penetration Firestop Systems

- •
- L-Rating (currently optional) Amount of air leakage through the system at ambient and 400°F . Measured in CFM/sq. ft. The lower the number, the better.
- W-rating (currently optional)
- the ability of a system to restrict the flow of water .
- Class 1-rated systems resist a 3 foot water column for 72 hours

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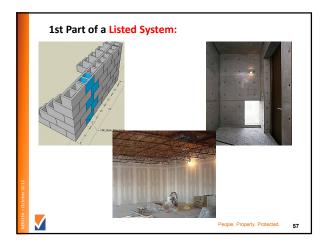
People. Property. Protected.

People. Property. Protected.

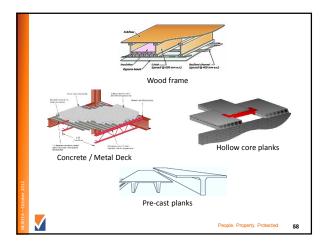
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There are 3 parts to a Listed **Firestop System**







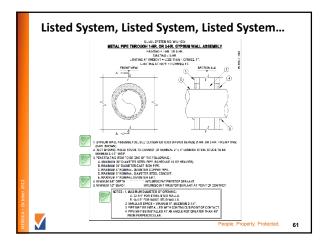
















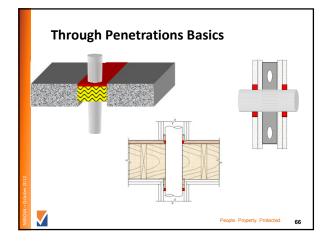




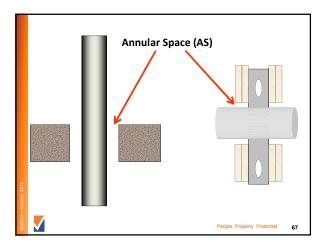




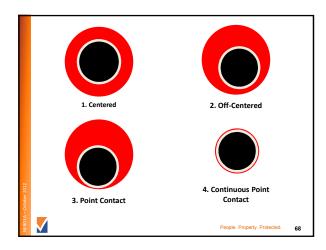




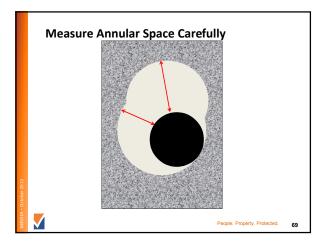




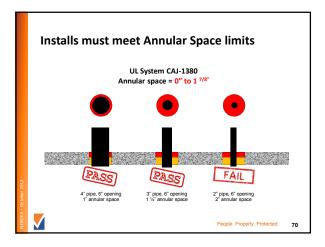




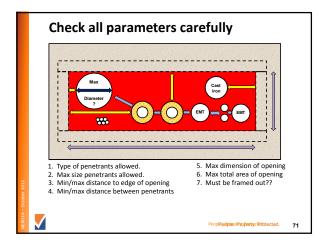




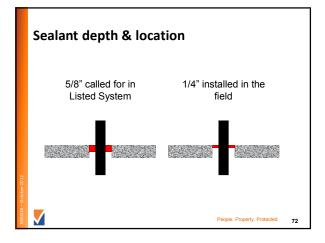




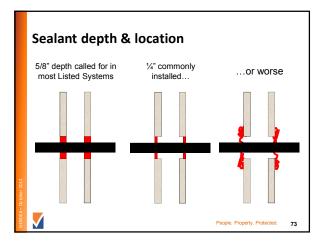




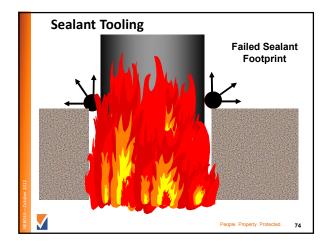




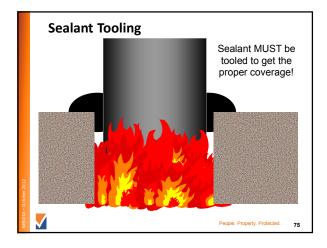




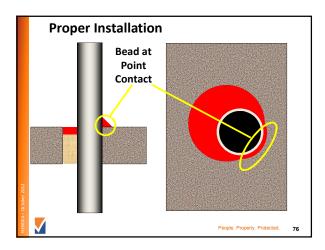




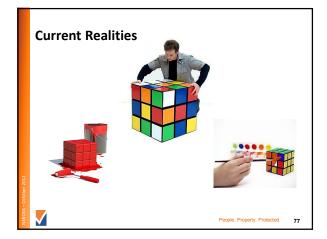




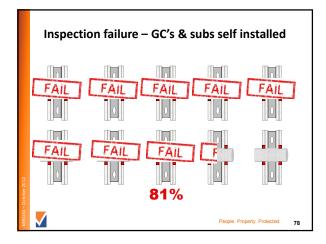








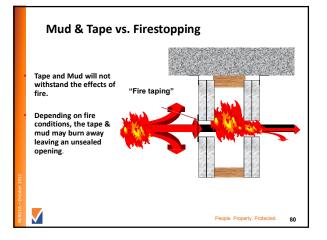








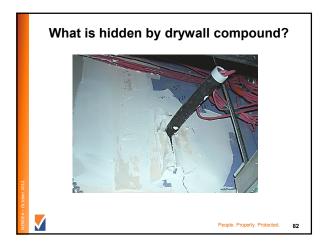




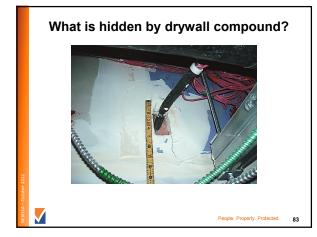




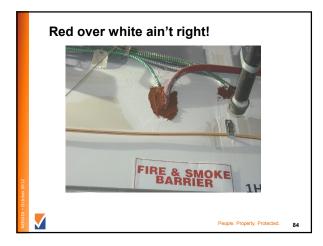
















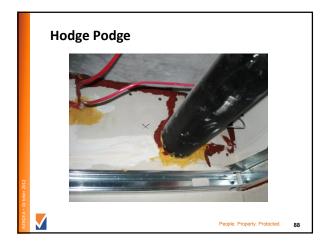








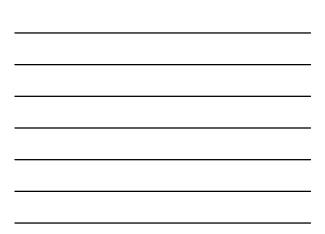












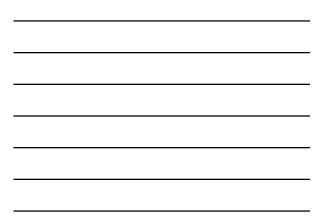










































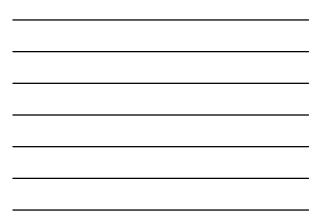






























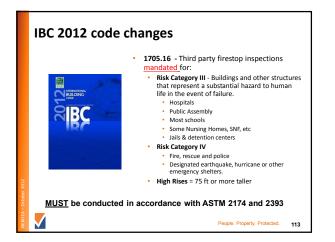




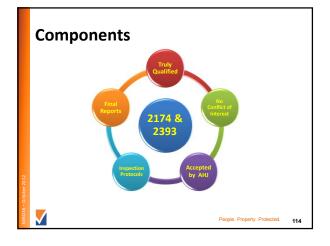


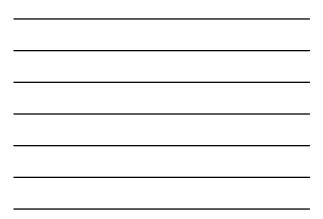


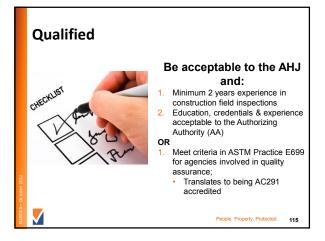








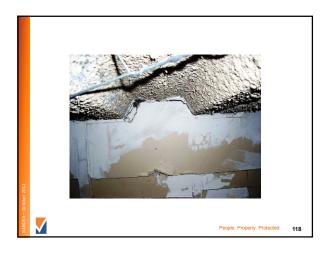




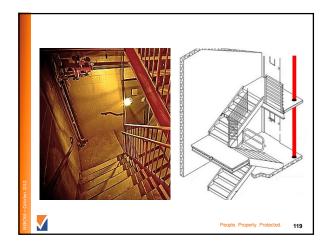






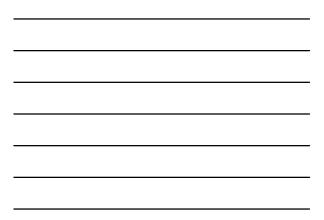


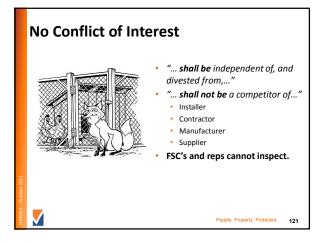


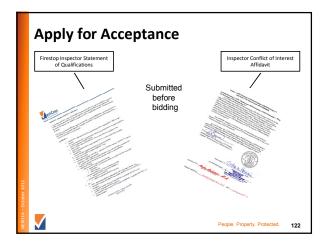






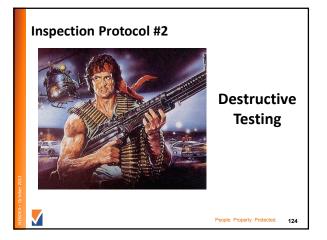




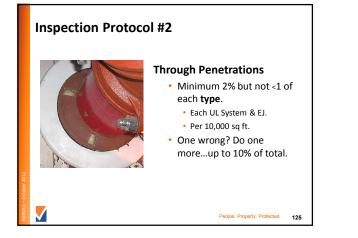
























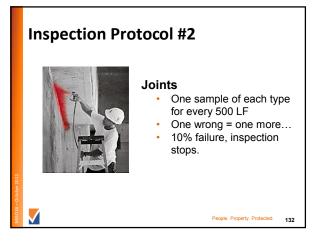












Reporting 1 page per... % of deficiencies **Deficiencies** per type Executive Within 2 days Summary Type & quantity Within 1 day of each Chronologically Total as % of all penetrations \checkmark People. Property. Protected. 133





Questions???

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Wayne Barrow 603-769-4108 wbarrow@vericonpfp.com

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