



**COFFEE & CODES**

**WELCOME!**

# WELCOME

- **Introductions**
  - Knox Box Program
  - Sprinkler System Testing Requirements
  - Fire Doors, Barriers, and More
- **Questions**





## **KNOX BOX PROGRAM**

# WHAT IS IT?

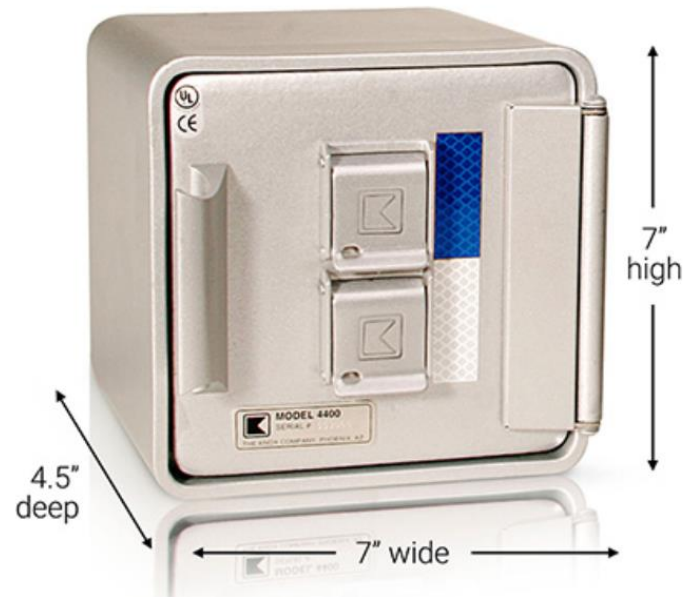
- **A Knox Box is a secured lock box that allows the Palatine Fire Department access a building or home in the event of an emergency.**
- **The Palatine Fire Department is the only organization with keys to these boxes. While Knox Boxes are used throughout the country, each community is uniquely keyed.**
- **There are multiple types of Knox products available, all of which are approved by the Palatine Fire Prevention Division.**
- **There are two main categories of boxes, commercial and residential boxes.**

# IS IT REQUIRED?

- **The Village of Palatine requires a Knox Box in all buildings with a required fire alarm system, and on any building where immediate access by the Fire Department is deemed necessary in accordance with the Village of Palatine Code of Ordinances. The locations are to be approved by the Fire Prevention Division, and shall contain keys, properly identified which allow access to all portions of the building.**
- **For residential buildings, this is offered as a service to residents.**
- **The Knox Box provides secure access to areas which otherwise may be forcibly opened by the fire department in the event of an emergency. The cost of these boxes vary, but are often far less than damage to doors.**

# MULTI-FAMILY BOX

- The Knox Multi-Family Box (Knox 4400 Series) is available to any property.
- These boxes hold a large number of keys to accommodate condo, multi-family homes, etc.
- Residents provide a form to the Fire Prevention Division and a key is placed in the Knox Box.
- [www.knoxbox.com](http://www.knoxbox.com)

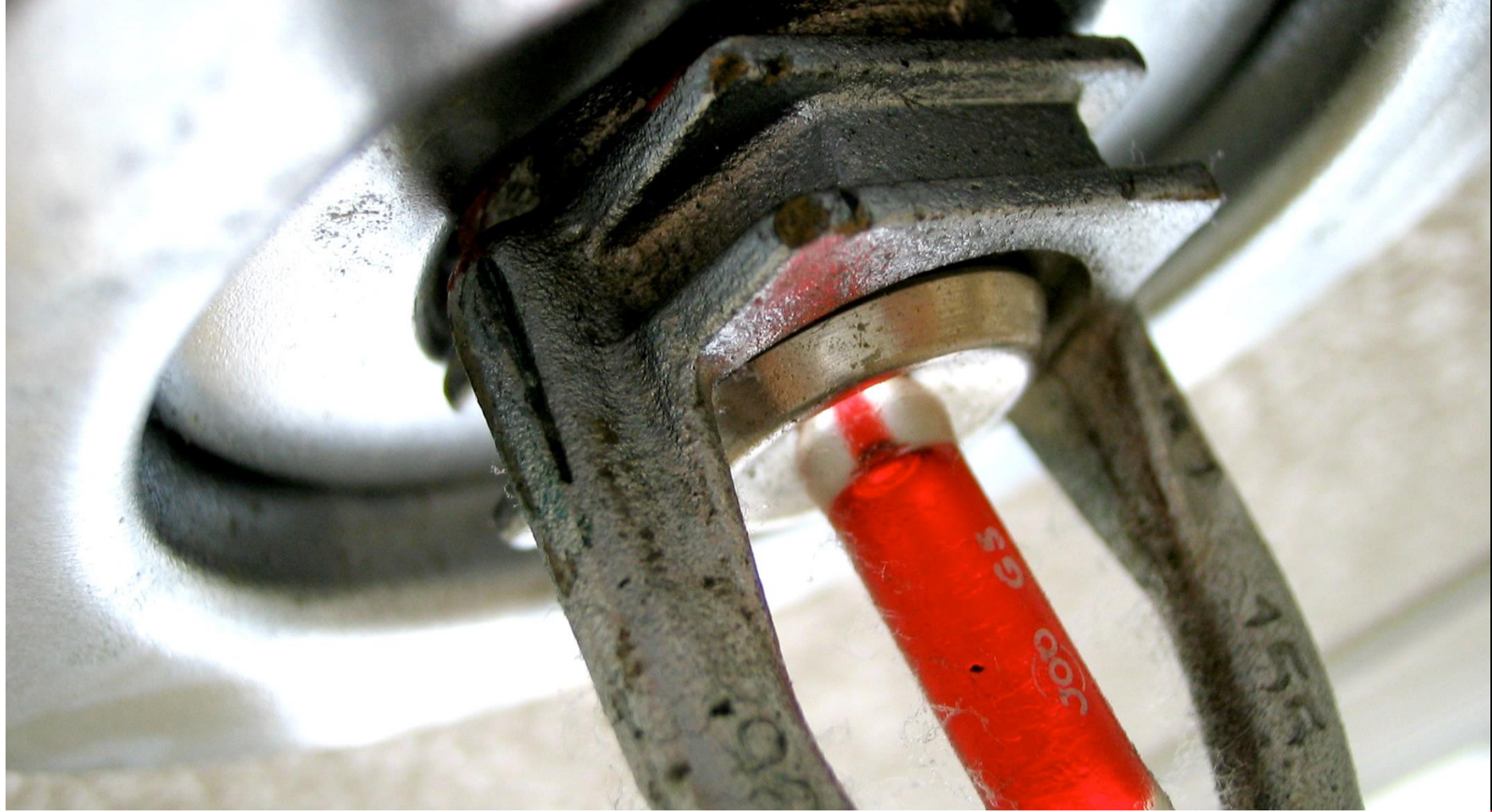


# RESIDENTIAL KNOX BOX

- This is the Knox Home Box. Available to residents to place at their home and hold 1-2 keys.
- These boxes are available in a variety of finishes.
- Great peace of mind for those who may live alone or unable to get to the door in an emergency.
- Loaner program available!
- [www.knoxhomebox.com](http://www.knoxhomebox.com)



Knox®  
HomeBox  
Wall Mount with  
optional decorative backplate



# **SPRINKLER TESTING REQUIREMENTS**



# WHY TEST?

- In order to ensure reliability and operability of your fire sprinkler system, routine inspection, testing, and maintenance should be conducted.
- The Village of Palatine Fire Code requires these systems to be inspected, tested, and maintained in accordance with NFPA 25 – The Standard for Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems.
- You can view this standard online at no cost at [www.nfpa.org/25](http://www.nfpa.org/25). Additionally, the fire sprinkler contractor is required to provide a copy to you at the time of system acceptance.
- System components degrade with time, specific environments, and hazards protected.

# WHO CAN TEST?

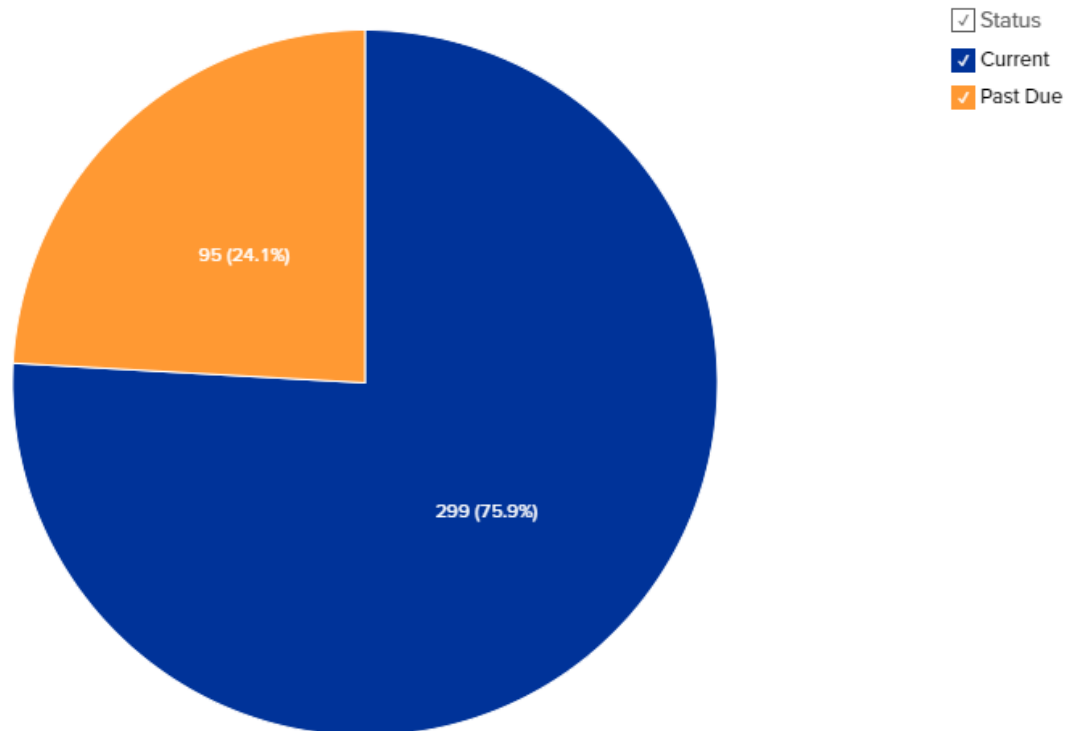
- Any individual performing work with Fire Sprinkler Systems must hold a valid Fire Sprinkler Contractor License with the Illinois Office of the State Fire Marshal.
- OSFM maintains a list of those contractors [online](#).
- If you have questions or concerns about the quality of the work, or about your contractor please contact our office and we can assist you.
- Inspectors must possess proof of certification such as NICET Level II in Inspection & Testing of Water Based Systems or a Certified Sprinkler Fitter Apprenticeship program approved by the US Department of Labor.
- If you are looking for a new company, our office can provide a list of all those who have performed work in Palatine.

# WHAT TESTING IS REQUIRED

- **In summary, the Fire Prevention Division looks for the following testing to be completed:**
  - Annual Sprinkler Test – includes gauges, sprinkler heads, hydraulic design information, antifreeze, main drain as applicable.
  - Dry System Trip Test
  - 5 Year Internal Inspection with Obstruction Investigation including the Check Valve
- **Both of these reports are to be uploaded to our office via [www.thecomplianceengine.com](http://www.thecomplianceengine.com). Additionally, any deficiencies noted must be repaired and uploaded as well.**
- **For complete testing requirements, please see NFPA 25.**

# PALATINE SPRINKLER STATUS

- **Currently 24% of Systems are Past Due for their annual inspection. (394 Systems Total)**
- **Data is driven from The Compliance Engine.**
- **5 Year Sprinkler Inspection is improved at 8% Past Due.**



A close-up photograph of a red fire door. The door is made of metal panels with visible rivets. The text "FIRE DOOR" is embossed in white on the top panel, and "KEEP CLOSED" is embossed in white on the bottom panel. The door shows signs of wear and discoloration.

FIRE DOOR  
KEEP CLOSED

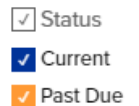
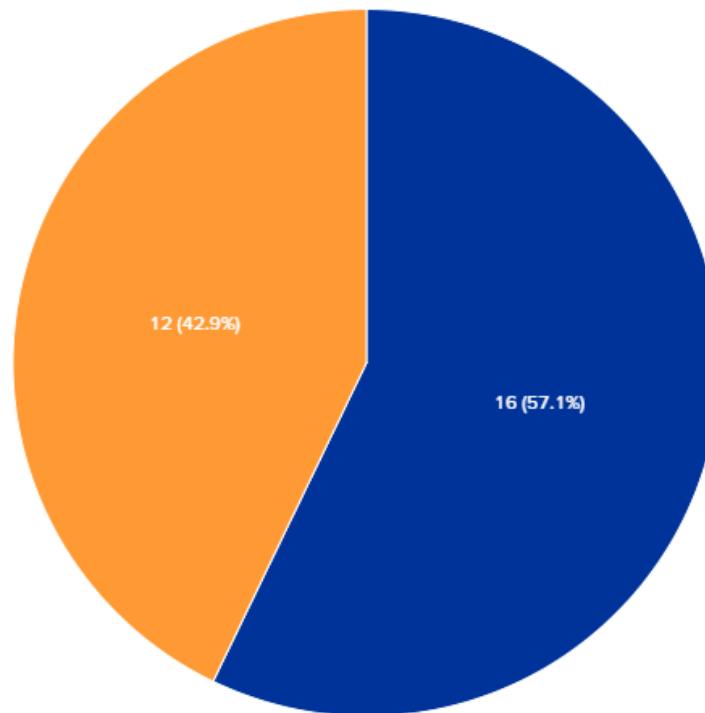
**FIRE DOORS, BARRIERS, AND MORE**

# WHAT IS THE DEAL?

- **Building Codes have long required separation in certain instances to compartmentalize buildings. These separations are through fire barriers and fire walls.**
- **Where an opening exists through these fire barriers or fire walls, they must be protected by a fire rated assembly. This includes fire doors, dampers, drop doors, penetrations, among many other styles of protection.**
- **These are often overlooked as building ages, but are critical to the safety of the structure, and occupants.**
- **A fire door is designed to automatically close and latch at all times.**
- **The difference that these doors make is life changing.**

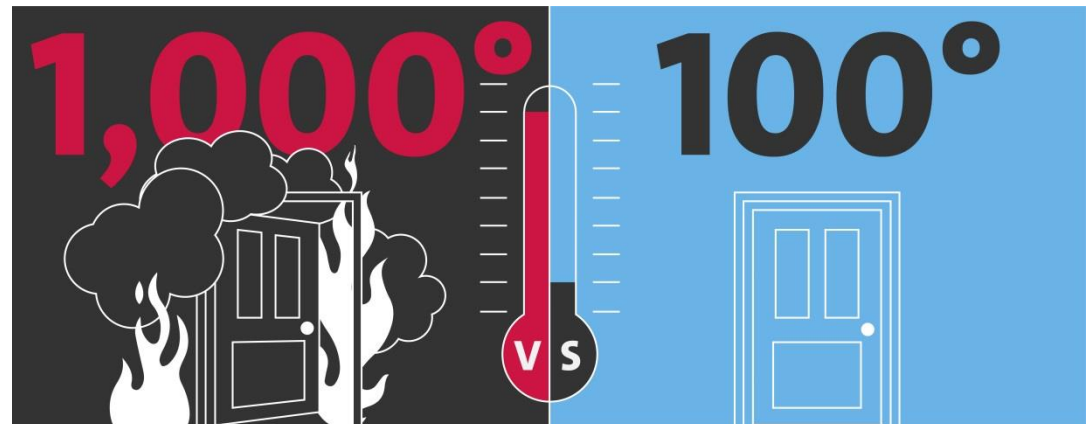
# AUTOMATIC CLOSING ASSEMBLIES

- This includes test reports for fire door drop tests. This does not include fire doors.
- Currently 43% of these systems and tests are past-due. (28 Total)
- Data is driven from The Compliance Engine.
- Systems are likely under reported.



# TODAY'S FIRE

- Fires today are burning faster than before.
- 40 Years ago, there was an average of 17 minutes available to escape a home fire.
- Today you now have 3 minutes.
- Doors can make a 900 degree difference.



**CLISE**  
BEFORE YOU DOZE

**MAKE A 900 DEGREE DIFFERENCE**

During a fire, a closed door can mean the difference between **1,000 degrees** and **100 degrees**.







## **THE DIFFERENCE A DOOR CAN MAKE**

Images from: <https://twistedgifter.com/2018/06/the-importance-of-a-fire-door/amp/>



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# THANK YOU!



## QUESTIONS?

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[www.palatine.il.us/fireprevention](http://www.palatine.il.us/fireprevention)

