Building Fires Structural Damage Assessment



Presenter Bio: Rick Abbott

- Born in Minnesota in 1966 (Snow, Ice, Lakes)
- BS Civil Engineering University of MN 1989
- Masters of Engineering (Civil) Cornell 1990
- Professional Engineer (PE) in 1993
- Structural Engineer (SE) in 2003
 - 1 construction material testing
 - 19 years structural design
 - Licensed PE in 7 states
 - Licensed SE California
- Forensic Engineering in 2011
 - 10 years of inspecting distressed buildings
 - Report writing
 - A lot of time with eye on crazy stuff.

What is PE vs SE https://abbottforensic.com/what-is-astructural-engineer/

Frequent Asked Questions

https://abbottforensic.com/faq/

White Papers

https://abbottforensic.com/whitepapers/

Forensic Engineer

https://abbottforensic.com/what-is-aforensic-structural-engineer/

Seminars

https://abbottforensic.com/seminars/



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The home office is in Minneapolis / St. Paul Area



Online



Scope of Work: What went wrong? What is the Extent of Damage? Offer Repair Recommendations

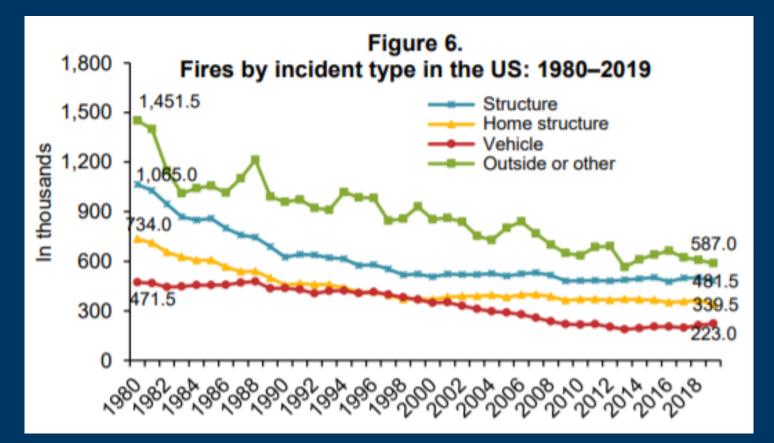
Structural Fire : Agenda

- 1. The Problem
- 2. Pre-Inspection Protocol Engineer's Scope of Work
- 3. Temperature, Fire, Heat
- 4. Affects of Heat and Fire
 - a. Wood
 - b. Masonry
 - c. Steel
 - d. Concrete

How Big is this Problem?

Every 23 seconds, a fire department in the United States responds to a fire somewhere in the nation

In 2019 structure fires caused 12.3 Billion in property damage.



Source: National Fire Protection Association (NFPA)