



# The Dangers of **Passive Fire Protection** within Traditional Buildings

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Operations Director

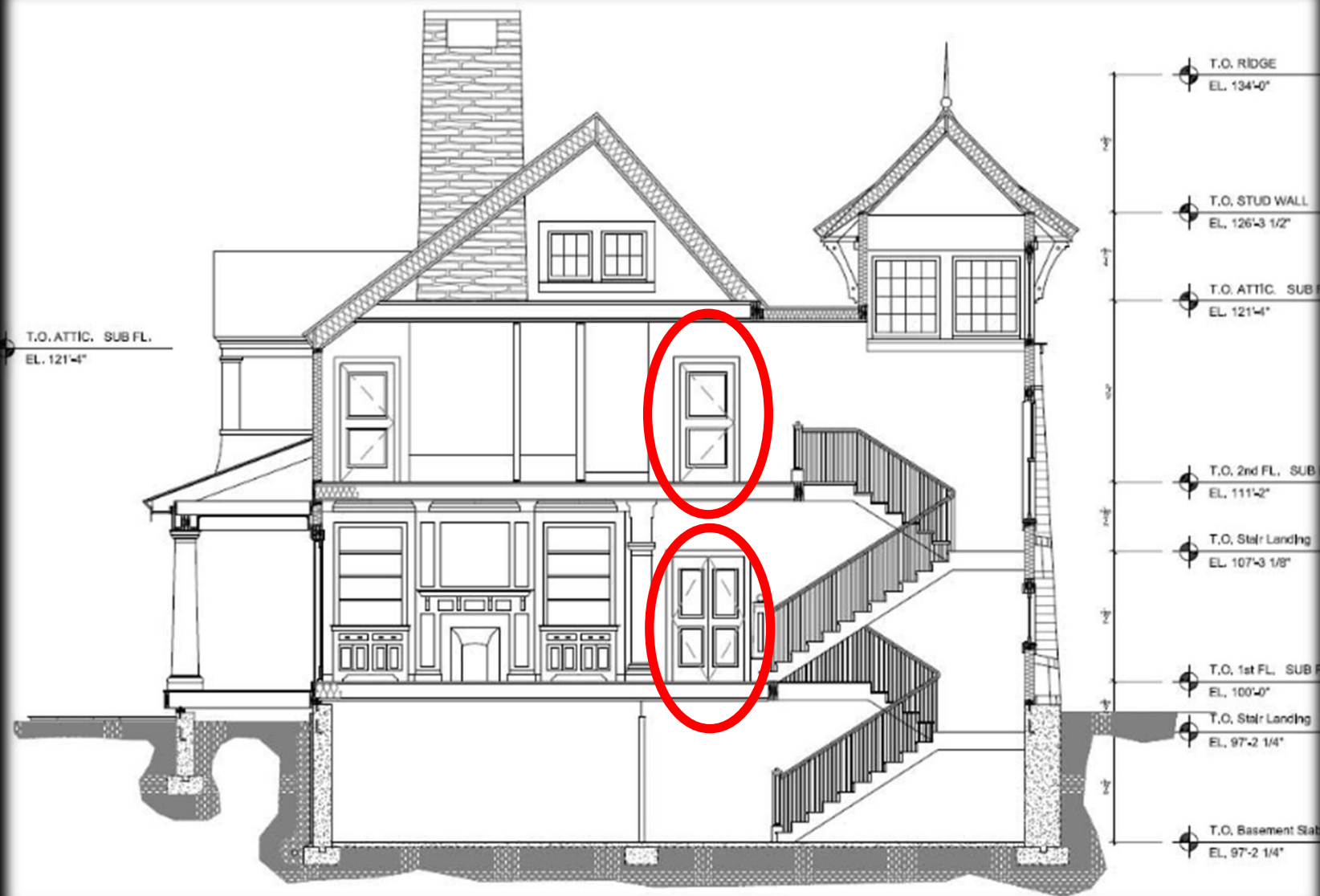
**AVESTA**

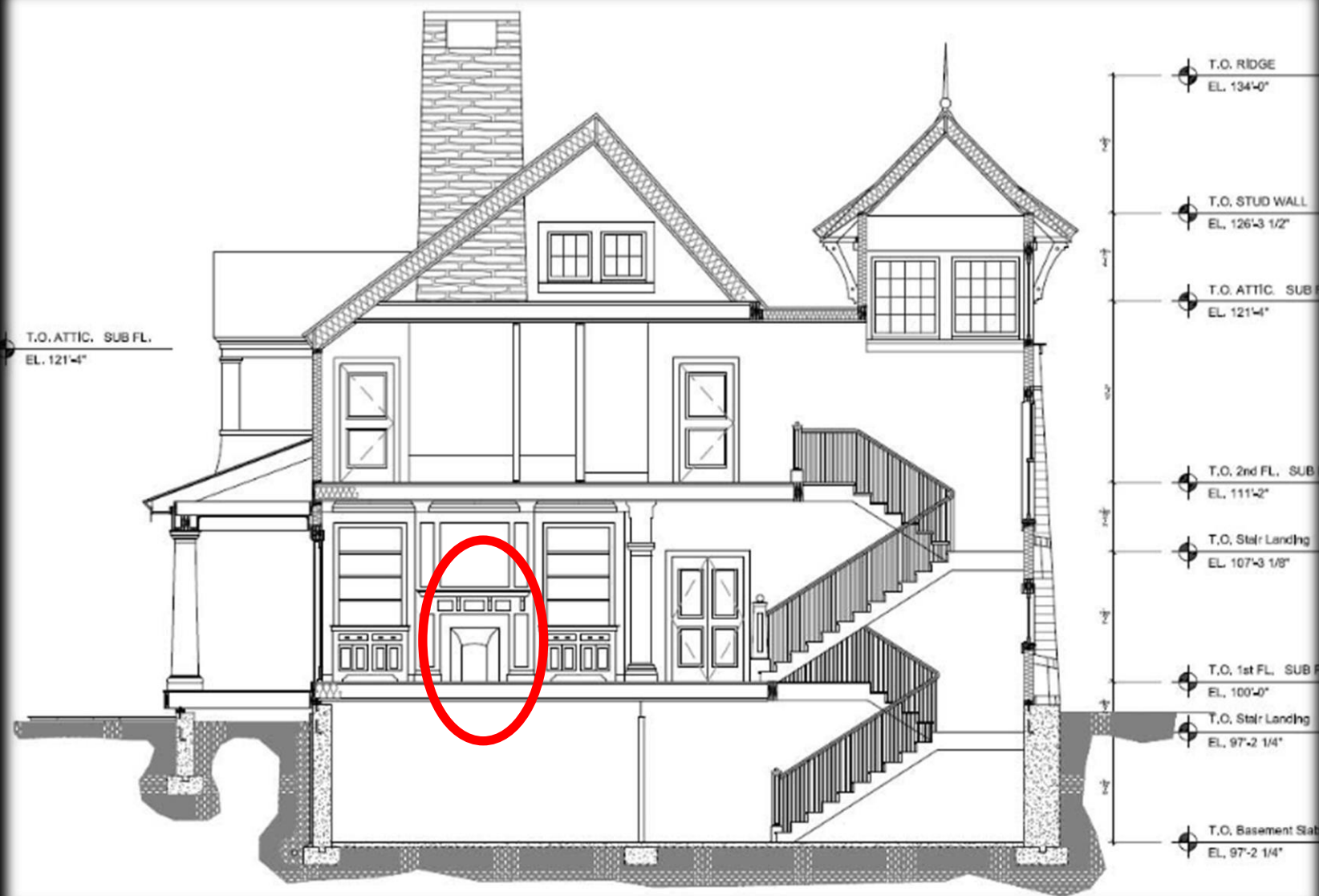
*"it is true that negligence of construction  
on the one hand,  
and want of care in management  
on the other,  
might entail risk and loss to an enormous extent."*

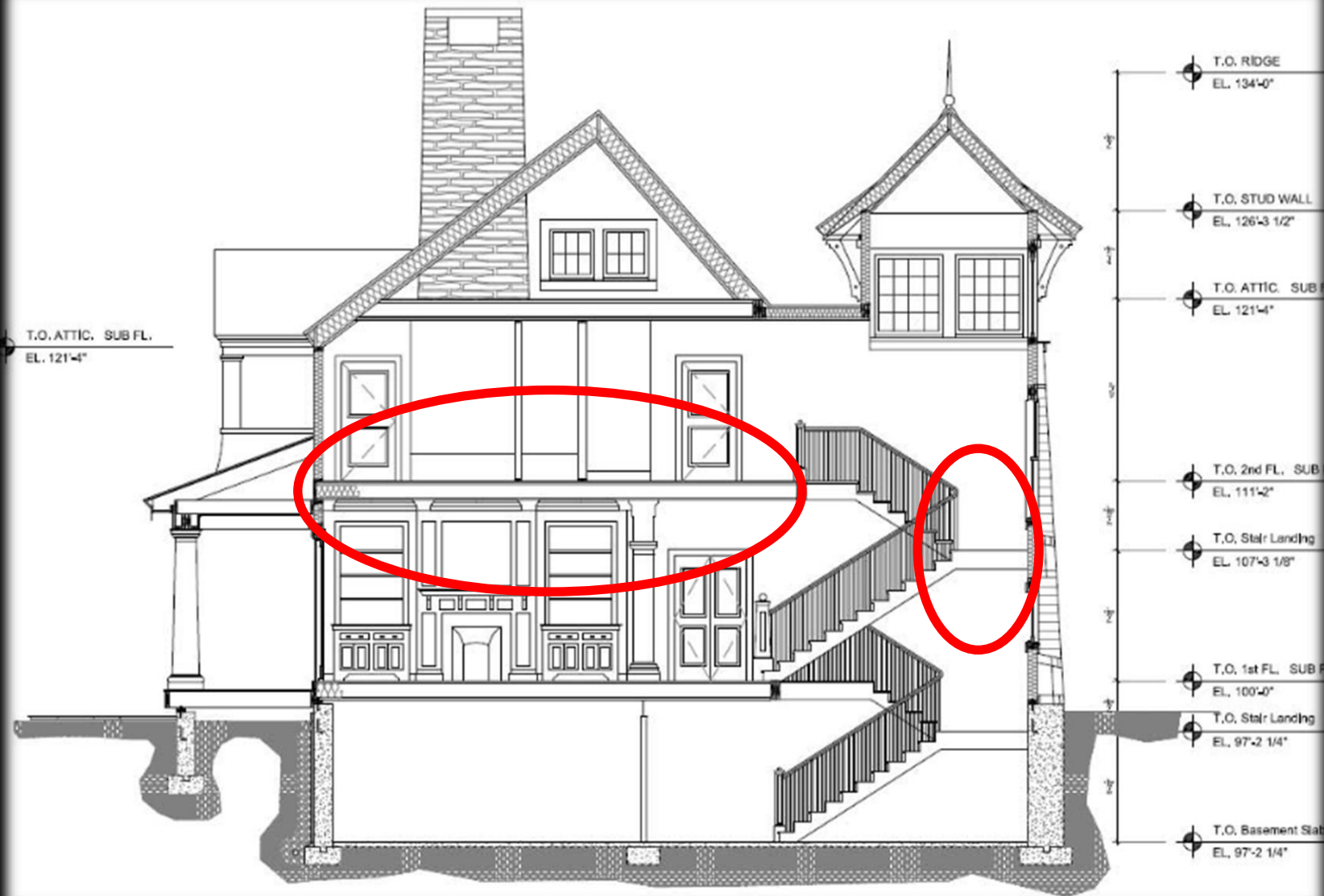
**FIRE PREVENTION AND FIRE EXTINCTION.**

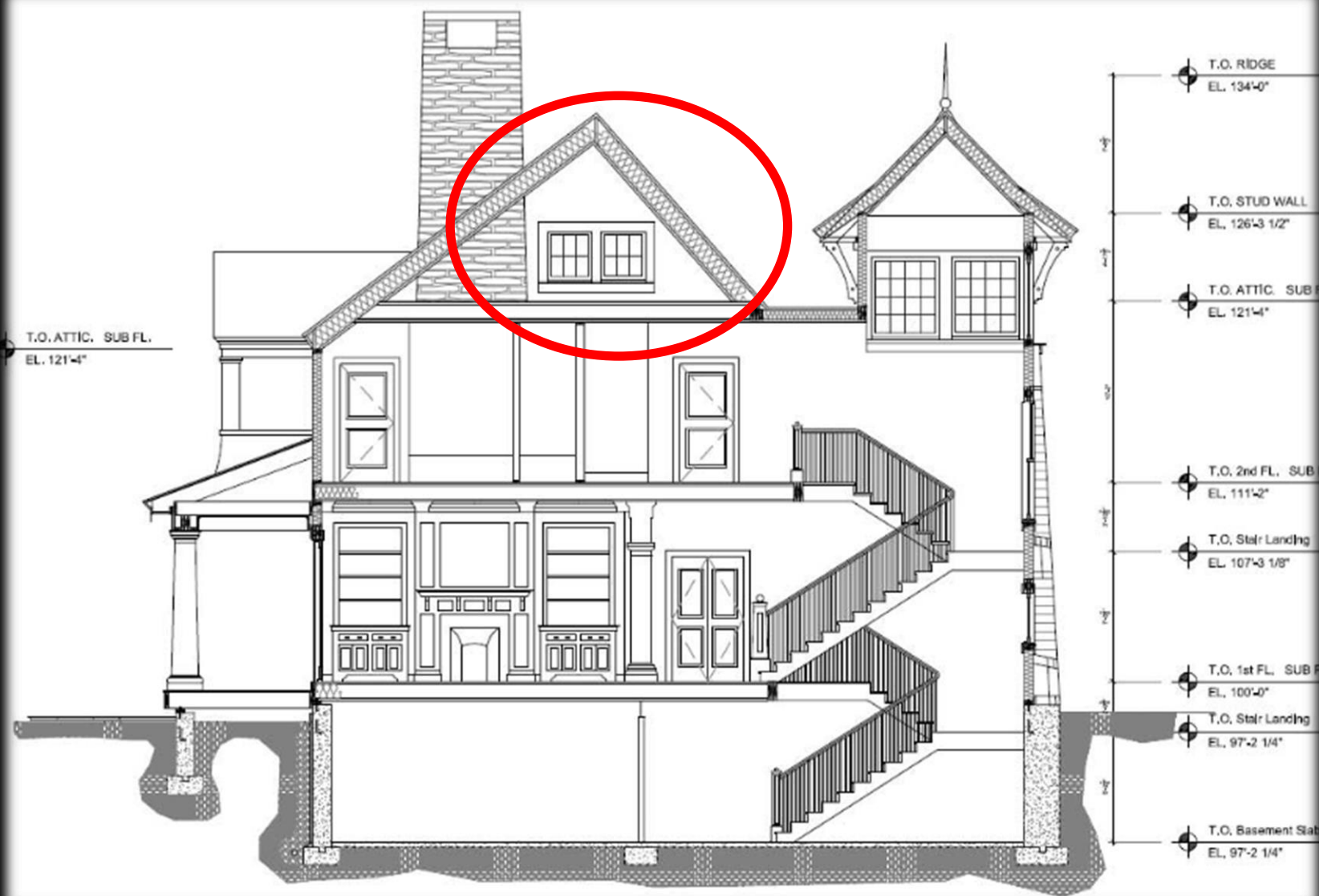
**BY JAMES BRAIDWOOD,**  
FIRST SUPERINTENDENT OF THE LONDON FIRE-BRIGADE,  
ASSOCIATE OF THE INSTITUTION OF CIVIL ENGINEERS.

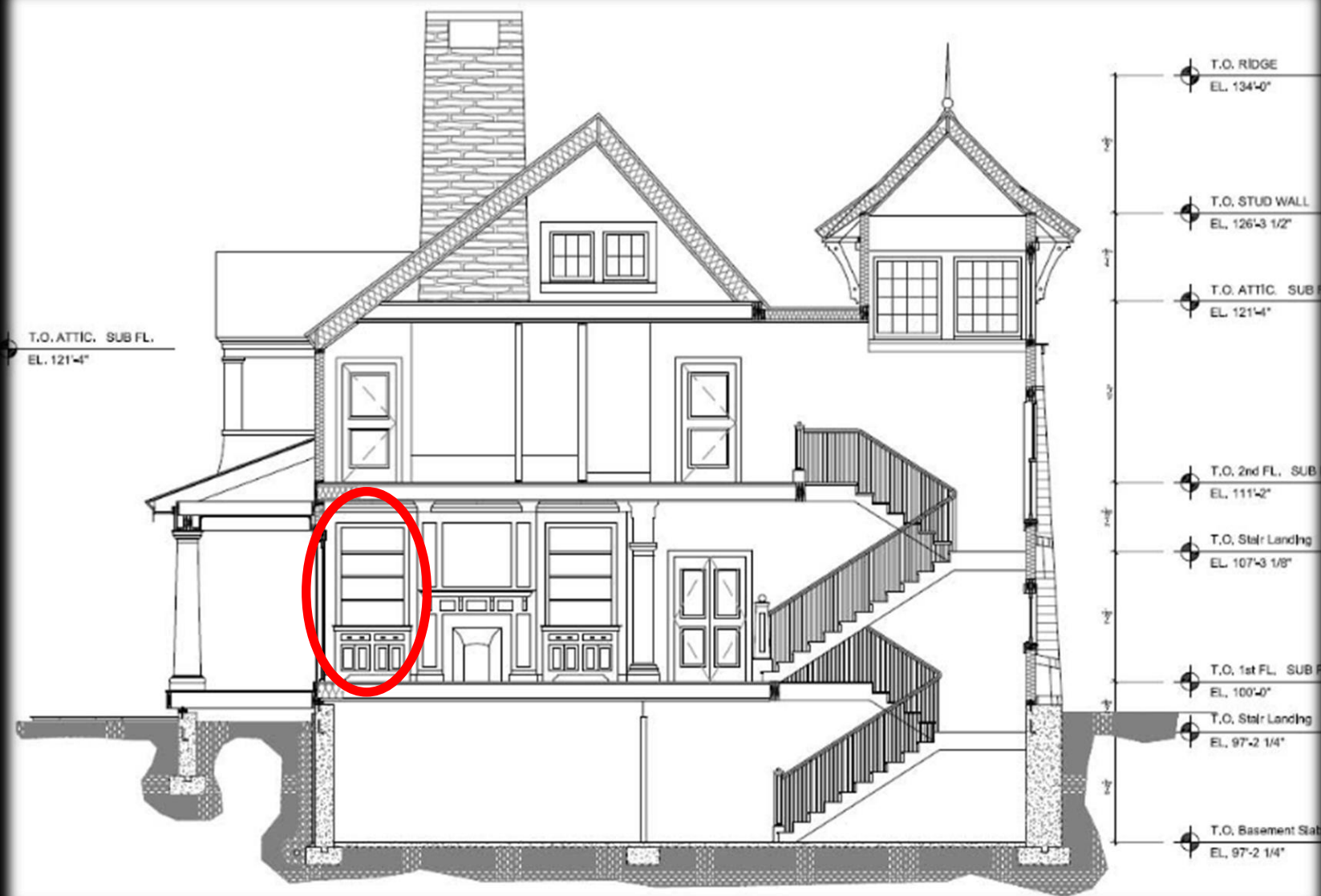
**LONDON: BELL AND DALDY, 186, FLEET STREET. 1866.**











# Dangers of Passive Fire in Traditional Buildings

- Rapid Fire Spread
- Structural Damage
- Smoke and Toxic Gas Accumulation
- Compromised Fire Detection and Suppression Systems
- Access by Firefighters to The Source of the Fire
- Preservation Challenges




*PU foam located in open voids across the property in an attempt to seal larger voids.*





*Multiple services installed in voids however passive fire testing does not cover all of these combinations.*

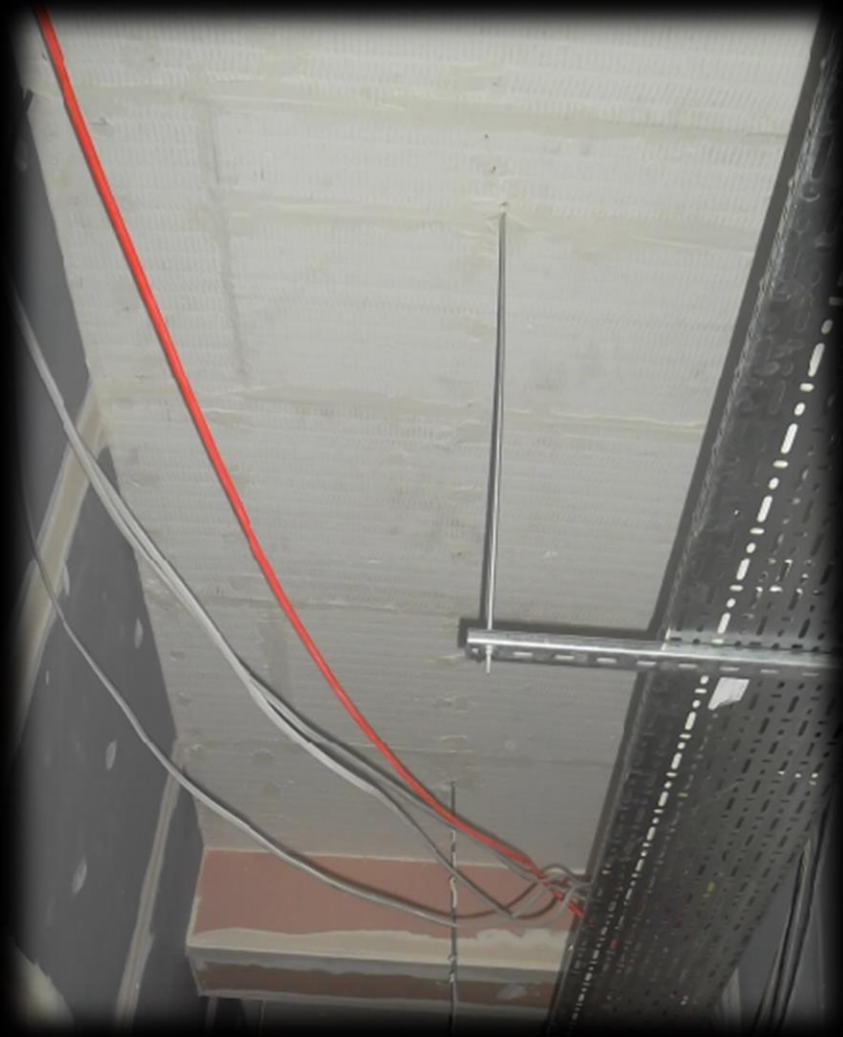


*Open joists across the ceiling, creating voids into each of the bedrooms located along the length of the corridor.*

*Hilti solution to clad joists.*

*This was only possible due to their comprehensive fire testing and the robust walls and floors surrounding these areas.*







**AVESTA SCOTLAND LIMITED**

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[enquiries@avestagroup.co.uk](mailto:enquiries@avestagroup.co.uk)

**Quoting the following Seal Number and Location**

SEAL NUMBER:	LOCATION:	FIRE RATING:
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**AVESTA SCOTLAND LIMITED**

Meiklewood Business Park, Glasgow Road, Kilmarnock KA3 6AG



Forget passcode?



[Add new survey](#)

Test Survey name

Enter building name / reference

Enter contractor name

Enter reference / job ID

Select date DD/MM/YYYY

**+ Upload floorplan** (optional)

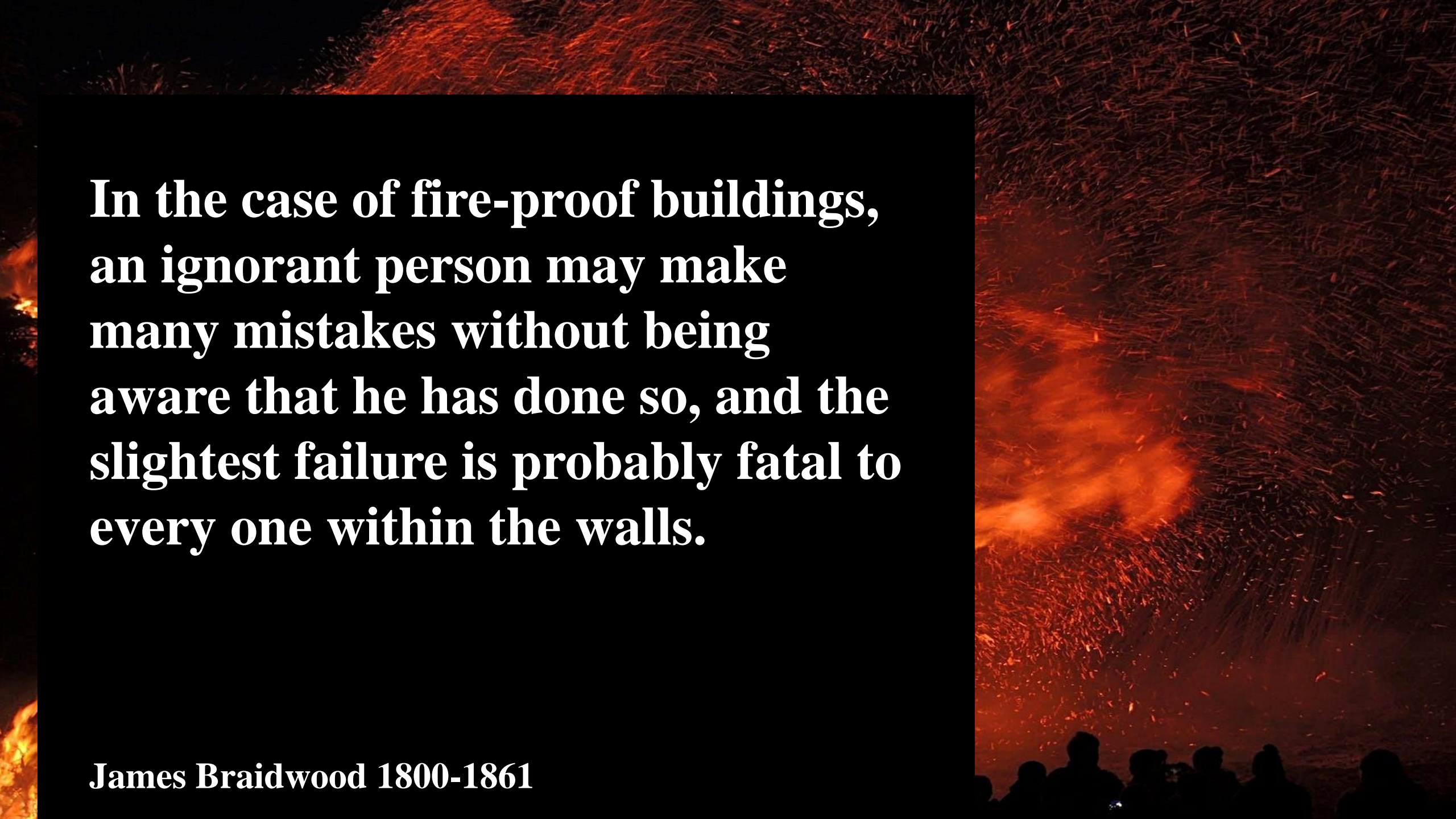
Create summary

### Active floorplan



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**In the case of fire-proof buildings,  
an ignorant person may make  
many mistakes without being  
aware that he has done so, and the  
slightest failure is probably fatal to  
every one within the walls.**

**James Braidwood 1800-1861**