

Course #3
AIA Course ID: FTCSUS26



Designing for Fire & the Future: Reimagining Passive Fire Protection Through Sustainable Prefabrication

Credits Available: 1-AIA/HSW

Purpose of this Lunch and Learn:

This course examines passive fireproofing methods with a focus on material transparency, sustainability & long-term performance. We will do a basic review of HPDs, EPDs and LCAs and how they support responsible material selection. We conclude with a comparative evaluation of field applied fireproofing and a prefabricated system & highlight how controlled manufacturing, quality assurance, and material transparency support environmental responsibility. *This course is designed for structural architects and engineers, CM's, GC's and building owners.*

Learning Objectives:

- Identify & describe the primary types of passive fire protection systems and their role in achieving fire resistance ratings that protect occupant life safety & structural integrity.
- Analyze how fire protection design decisions influence constructability, inspection compliance, durability & long-term building resilience.
- Differentiate between EPDs, HPDs & LCAs & explain how these tools encourage sustainable material selection.
- Evaluate the environmental and jobsite impacts associated with traditional field-applied fireproofing methods, including material waste, sustainability implications & quality control variability.