

ASTM E119 & ASTM E84 QuickGuide

What You Need To Know for Fire-Rated Temporary Containment

STARC[®]

S Y S T E M S

Containment beyond comparison

ASTM E119

ASTM E84



Definition

Standard Test Methods for Fire Tests of Building Construction and Materials.

UL 263, NFPA 251, UBC 7-1

Standard Test Method for Assessing the Surface Burning Characteristics of Building Products.

UL 723, NFPA 255, UBC 8-1, Tunnel Test



What Does This Test Evaluate?

The duration for which building construction materials and assemblies can either contain a fire, retain structural integrity or both.

Determines the fire resistance of a complete assembly.

Measures the flame spread and smoke development characteristics of the material surface. The flame & smoke index tests are:

- FSI: measures the speed at which flames progress
- SDI: measures the amount of smoke a sample emits



Is This a Requirement for Healthcare Occupied Renovations?

Yes, when the construction area is adjacent to an occupied area and if an NFPA 13 compliant sprinkler system is not provided in the construction area.

Yes. All new hospitals occupied after July 5, 2016 must have Class A finishes as required by CMS's adoption of NFPA 2012.



Must-Knows for Temporary Wall Selection

- Fire-rated temporary separation walls are treated and tested as a listed assembly.
- Constructed assemblies, such as gypsum, require building each individual component according to test specifications.

- FSI & SDI test results determine Class A, B, C or D ratings.
- Class A denotes higher degree of performance.
- Many healthcare facilities require Class A standards.



Does Passing this Test Result in a Rating Designation, Such as One-Hour?

Yes.
Passing this means a system can withstand one hour of fire resistance.

No.
E84 certifies the system does not exceed flame and smoke thresholds after 30 minutes of fire.



Do All Temporary Containment Methods Meet This Standard?

No.

No.

Beware: some products are not tested at all and others have only certain components tested.
Certification requires testing and approval of an entire system.

Does STARC Offer a Solution Meeting This Standard?

Yes!

Our new FireblockWall™ is the first and only reusable, one-hour fire-rated temporary containment system (certification pending)

Yes!

Our temporary, reusable containment solutions are all listed as meeting ASTM E84, Class A requirements for smoke and fire.

Meet the first and only one-hour fire-rated containment solution

FireblockWall™

