

Description of Fire Boundary Classifications (46 CFR 190.07-5)

- “A” Class Boundary means: “...composed of steel or equivalent metal construction ... [and] if subjected to the standard fire test, would be capable of preventing the passage of flame and smoke for one hour.”
- Standard Fire Test: “[A test]...which develops in the test furnace a series of time temperature relationships as follows:”

5 minutes - 1000° F

10 minutes - 1300° F

30 minutes - 1550° F

60 minutes - 1700° F

~Passage of HEAT as compared to simple passage of smoke and flame~

- In simple terms, A-30 would be constructed of steel (or other suitable metal) such that it prevents the passage of smoke and flame for one hour and the temperature on the side being protected does not reach 1550° F after 30 minutes.
- SOLAS furnace test is slightly different.