

Celina Fire Marshal's Office Memorandum

Top Reasons Fire Alarm System Installations Fail Inspection

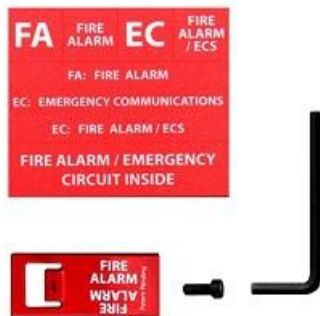
1. A locking Records Retention “Documents Cabinet” – [NFPA 72-7.7.2.1](#)

- a. Final approved/As-Built Drawings
- b. SF-035 Contractor Certification
- c. Written basic system operation instructions including bypass codes
- d. Spare keys
- e. Panel software



2. Breaker & panel labels with “Red” lockout device – [NFPA 72-10.6.5.2](#)

- a. Battery labeling utilizing a label maker, with contrasting white background & black letters or numbers Ordinance/Amendments 14-51 - [NFPA 72-10.6.5.1](#)



3. [907.6.1.1-Wiring Installation](#). All fire alarm wire shall be red in color. A contrasting color striping system for circuit designation may be utilized as long as the base color of the wire is red.

- a. Failing to comply with proper wire and box installation in accordance with [NFPA 72 & NFPA 70](#). Wire is to be installed to provide protection from physical damage. The environment must be observed for the proper box installation.
 - b. Failing to schedule a wire and box inspection - [IFC-2012-106.3 Concealed work](#). It shall be the duty of the permit applicant to cause the work to remain accessible and exposed for inspection purposes. Whenever any installation subject to inspection prior to use is covered or concealed without having first been inspected, the *fire code official* shall have the authority to require that such work be exposed for inspection. Neither the *fire code official* nor the jurisdiction shall be liable for expense entailed in the removal or replacement of any material required to allow inspection.
4. Failing to perform decibel level test with an approved decibel meter for occupant notification.

5. Failing to provide the original approved drawings and the As-Built drawings at the final acceptance inspection.
6. Fire alarm system design submittals rejected during review because of incomplete information on the drawings including inaccurate address or suite number. [NFPA 72, chapter 7, minimum content prescribed](#):
 - a. 7.4.4 - Shop drawings shall include all items
 - b. 7.4.5 - Floor plan drawings shall include all applicable items
 - c. 7.4.6 - System riser diagrams shall be coordinated with the floor plans & shall include all items
7. [907.6.6-Waterflow Notification](#). An exterior audible and visible notification device shall be provided on the exterior of the building above the fire department connection. If a remote FDC is installed, an additional exterior audible and visible notification device shall be located above the FDC seven (7) feet above finished grade



8. [907.1.4. Design Standards](#). “Riser rooms shall be equipped with an annunciator panel”. *Exception*, when the fire alarm control panel is installed in the riser room.



9. Failing to comply with the manufactures installation instructions for primary A/C power source, FACP protection and data surge suppression. Reference [NFPA 70, article 708.20](#) for primary A/C power source supply. (*Best engineering practices place the surge suppressor at the breaker panel power source*). Data surge suppressor, reference [NFPA 70, article 800.90](#)

