



TO: Whom It May Concern

FROM: State Fire Marshal Division

15 Second Delayed Egress Specialized Locking Systems

The following documents and verifications must be provided to obtain approval of a 15 second delayed egress locking system. All door locking submittals as part of new construction or renovation projects must be submitted to the Building Code Bureau with the building construction plans for approval. Door locking submittals in existing buildings shall be submitted to the Fire Prevention Bureau for approval.

A specialized 15 second delayed egress locking system is permitted if installed in accordance with applicable codes and standards referenced by specific occupancy rules. These systems must meet the requirements of Section 7.2.1.6 of the National Fire Protection Association (NFPA) Standard 101, Life Safety Code, 2000 edition or Section 1008.1.9.7 of the International Fire Code, 2009 edition (based on what code is adopted for the specific occupancy).

1. All proposals must be submitted as a complete package.
2. The entire building shall be protected **throughout** by an approved sprinkler system that is installed in accordance with National Fire Protection Association (NFPA) Standard 13.
(In assisted living occupancies a sprinkler system that complies with NFPA 13R is permitted)

In lieu of the sprinkler system, the building shall be protected **throughout** by an approved, supervised automatic smoke detection system in accordance with Section 9.6, 2000 LSC or Section 907 of the 2009 IFC.
(9.6.2.8 2000 LSC requires smoke detection for all occupiable spaces)

3. Provide documentation or plans from a sprinkler system or fire alarm provider, that the sprinkler system provides protection throughout the entire building and complies with NFPA 13/13R or that the building is protected by a supervised, automatic smoke detection system in accordance with Section 9.6 (2000 LSC) or Section 907 (2009 IFC).
4. Verify the locks will release upon activation of any heat detector or not more than two smoke detectors. In addition, the locks must automatically unlock upon activation of the sprinkler system.
5. Verify the locks release upon loss of power controlling the lock or locking mechanism.

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6. Provide a **detailed** floor plan of the ENTIRE building. The floor plan shall identify the doors that will be equipped with specialized locking devices.
7. Provide a **list** of the doors equipped with locks. **List** the locking components used at each of the doors.
This list shall include a description of how the door and the locking devices will function.
(Simply providing the many product diagrams and/or cut sheets is not acceptable.)
8. Not more than one delayed locking device is permitted in any path of egress.
9. Verify that doors in other than a corridor smoke barrier will be equipped with labeled positive latching hardware. The releasing device installed on a labeled fire door shall be labeled as being fire rated.
10. Verify that when a door is unlocked by activation of force to the releasing device, fire alarm system, or sprinkler system, the locking system shall be manually reset.
11. Verify that an alarm will sound, **immediately at the door**, when the release device is pushed.
12. An irreversible process shall release the lock within 15 seconds upon application of force to the release device required in 7.2.1.5.4 that shall not be required to exceed 15 lbf nor be required to be continuously applied for more than 3 seconds.
13. Verify there will be a sign on the door near the release device that states in one inch letters "Push Until Alarm Sounds, Door Will Open In 15 Seconds."
14. Verify there is emergency lighting (from battery backup or emergency generator) in the location of the door(s). 2009 IFC, 1006.3 and 2000 LSC, 18/19.2.9.1

Total Locking Systems for Health Care Facilities

The following documents and verifications must be provided to obtain approval of a total locking system in a health care facility.

A total locking system is permitted only in health care facilities licensed by the Department of Inspection and Appeals as a CCDI unit or a health care facility with patients that meet the requirements for special clinical needs and as permitted in 2009 IFC, 1008.1.9.3 and 1.9.8.

1. All proposals must be submitted as a complete package.
2. The entire building must be protected **throughout** by an approved sprinkler system that is installed in accordance with National Fire Protection Association (NFPA) Standard 13.

Total Locking Systems for Health Care Facilities

In lieu of the sprinkler system, the building must be protected **throughout** by an approved, supervised automatic smoke detection system in accordance with Section 9.6, 2000 LSC or Section 907 of the 2009 IFC.

(9.6.2.8 2000 LSC requires smoke detection for all occupiable spaces)

3. Provide documentation, from a sprinkler system provider, that the sprinkler system provides protection throughout the entire building and complies with NFPA 13. For the automatic smoke detection system that is in lieu of the sprinkler system provide plans and specifications of the smoke detection system so it can be reviewed to determine if the system will meet the requirements of Section

9.6 or Section 907 of the 2009 IFC.

4. Verify the locks will release upon activation of any heat detector, not more than 2 smoke detectors, or upon activation of the sprinkler system.

5. Verify the locks release upon loss of power controlling the lock or locking mechanism.

6. Provide a **detailed** floor plan of the ENTIRE building. The floor plan must identify the doors that will be equipped with locking devices and the location of the global override switch.

7. The global override switch must be located at the nurse's station or other approved location.

Verify that the global override switch will unlock all doors. Provide a cut sheet that describes this switch.

(Operation of the switch must not require the use of a key and must be clearly marked as to function.)

8. Provide a **list** of the doors equipped with locks and **list** the locking components used at each of the doors.

(Simply providing the many product diagrams and/or cut sheets is not acceptable.)

9. Verify the locks can be released at the door location by a key pad or other approved device.

10. Verify that doors in other than a corridor smoke barrier will be equipped with labeled positive latching hardware. The releasing device installed on a labeled fire door must be labeled as being fire rated.

Please submit all door locking proposals to the Des Moines Office, 215 E. 7th Street, Des Moines, IA 50319.

10/08/2013