



Kerrville Fire Marshal

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Section 5

Access-Controlled/Delayed Egress Door Systems

These guidelines are to be followed when a building, or facility within the City of Kerrville, is provided with an approved, entry and exit access controlled or delayed egress door for pedestrian traffic.

All access control criteria for the purposes of these guidelines and any other guidelines or requirements of the Fire Marshal shall conform to the *International Fire Code* as adopted and amended by the City of Kerrville.

This guide does not replace, nor supersede any codes and/or ordinances adopted by the City of Kerrville, or determinations and positions of the Fire Chief or Fire Marshal.

Access-Controlled Egress Door Operational Requirements

The entrance doors in a means of egress in buildings with an occupancy in Group A, B, E, M, R-1 or R-2 and entrance doors to tenant spaces in occupancies in Groups A, B, E, M, R-1 and R-2 are permitted to be equipped with an approved entrance and egress access control system which shall be installed in accordance with the following criteria:

1. A sensor shall be provided on the egress side arranged to detect an occupant approaching the doors. The doors shall be arranged to unlock by a signal from or loss of power to the sensor. The sensor must be listed for its intended use.
2. Loss of power to that part of the access control system, which locks the doors, shall automatically unlock the doors. This is to include both the access and egress side of the door.
3. The doors shall be arranged to unlock from a manual unlocking device located 40 inches to 48 inches (1016 mm to 1219 mm) vertically above the floor and within 5 feet (1524 mm) of the secured doors. Ready access shall be provided to the manual unlocking device and the device shall be clearly identified by a sign that reads "PUSH TO EXIT." When operated, the manual unlocking device shall result in direct interruption of power to the lock—Independent of the access control system electronics—and the doors shall remain unlocked for a minimum of 30 seconds.
4. If a full building smoke detection system is not provided, approved smoke detectors shall be provided on both the access and egress sides of doors and in a location approved by the authority having jurisdiction of *NFPA 72*.
5. Activation of the building fire alarm system, if provided, shall automatically unlock the doors, and the doors shall remain unlocked until the fire alarm system has been reset.
6. Activation of the building automatic sprinkler or fire detection system, if provided, shall automatically unlock the doors. The doors shall remain unlocked until the fire alarm system has been reset.
7. Entrance doors in buildings with occupancy Group A, B, E or M shall not be secured from the egress side during periods that the building is open to the public.
8. *Group E Occupancies Only:* In Group E Occupancies where ingress is available by keys located in a Knox Box mounted at the main entrance to the building, the Fire Alarm must unlock the egress portion or capability of all doors while the ingress function may remain locked.

Delayed Egress Locks

Operational Requirements

Approved, listed, delayed egress locks shall be permitted to be installed on doors serving any occupancy, except Group A, E and H occupancies, that are equipped throughout with an automatic sprinkler system in accordance with the *International Fire Code*, Section 903.3.1.1 or an approved automatic smoke or heat detection system installed in accordance with the *International Fire Code*, Section 907, provided that the doors unlock in accordance with Items listed below. A building occupant shall not be required to pass through more than one door equipped with a delayed egress lock before entering an exit.

9. The doors unlock upon actuation of the automatic sprinkler system or automatic fire detection system.
10. The doors unlock upon loss of power controlling the lock or lock mechanism.
11. The door locks shall have the capability of being unlocked by a signal from the fire command center.
12. The initiation of an irreversible process which will release the latch in not more than 15 seconds when a force of not more than 15 pounds (67 N) is applied for 1 second to the release device. Initiation of the irreversible process shall activate an audible signal in the vicinity of the door. Once the door lock has been released by the application of force to the releasing device, relocking shall be by manual means only.
Exception: Where approved, a delay of not more than 30 seconds is permitted.
13. A sign shall be provided on the door located above and within 12 inches (305 mm) of the release device reading: PUSH UNTIL ALARM SOUNDS. DOOR CAN BE OPENED IN 15 [30] SECONDS.
14. Emergency lighting shall be provided at the door.

Submittal Requirements

15. Plans and specifications/cut sheets shall be submitted in PDF Format into the online platform. A second set of plans shall be submitted on paper at the request of AHJ if needed. Plans shall contain sufficient detail to enable the plan reviewer to accomplish a complete review.
16. Each submittal shall have a completed Kerrville Fire Marshal Permit Application.
17. Provide a written description of the operation of the Access-Control/Delayed Egress System in normal, loss of power, activation of a fire protection system and manual modes.
18. Drawings detailing the installation location and layout, including all hookups/integration into building systems (i.e. fire alarm) and wiring.
19. Submittal shall include:
 - a. Scaled floor plan for the facility.
 - b. Full equipment listing.
 - c. Spec/cut sheet for sensor.
 - d. Manufacturer documentation for all parts and materials used in the project.

Additional Information

20. Plans approved by the City of Kerrville, Fire Marshal give authorization for construction and/or operation. Final approvals are subject to field verification. Any approval issued by the Fire Marshal does not release the contractor or property owner from the responsibility of full compliance with all applicable codes and ordinances relating to the construction project.
21. Installation, fabrication or otherwise construction of the system is prohibited without approved plans and permit.
22. All installations and/or operations must concur with the approved plans. Any deviation from the approved plans requires a re-submittal to the Fire Marshal's Office.
23. All fire marshal inspection forms and permits shall be kept in a permit packet on the job site until final inspection.

Inspection Requirements

24. *Magnetic-Lock/Push Bar Test*: Magnetic locks will be tested.
25. *Back-up Power Verification*: Test emergency backup power to the access control system, where provided
26. *Fail Safe Verification*: Loss of power, or function to that part of the access control system, which locks the doors, shall automatically unlock.

27. *Connection to Fire Sprinkler/Alarm System:* Activation of the building fire alarm or automatic sprinkler system, if provided, shall automatically unlock the doors. In addition, remain unlocked until the fire alarm system is reset.
28. *Manual Operation:* Manual operation of the access control system, independent of any automatic function, will be tested.
29. *Egress:* Electric strike, or designated access doors shall be tested to verify free egress