

Table 8.1: General Requirements of Fire Detection and Alarm Systems

ITEMS	REQUIREMENTS
25. DOOR RELEASE SERVICE	<u>1. GENERAL</u> <ul style="list-style-type: none"> i. All detection devices used for door hold-open release service shall be monitored for integrity. ii. All door hold-open release and integral door release and closure devices used for release service shall be monitored for integrity. iii. Magnetic door holders that allow doors to close upon loss of operating power shall not be required to have a secondary power source. iv. Any device or system intended to actuate the locking or unlocking of exits shall be connected to the fire alarm system serving the protected premises. v. All exits shall unlock upon receipt of any fire alarm signal by means of the fire alarm system serving the protected premises. vi. If exit doors are unlocked by the fire alarm system, the unlocking function shall occur prior to or concurrent with activation of any public-mode notification appliances in the area(s) served by the normally locked exits. vii. All doors that are required to be unlocked by the fire alarm system shall remain unlocked until the fire alarm condition is manually reset.
	<u>2. SMOKE DETECTORS FOR DOOR RELEASE SERVICE</u> <ul style="list-style-type: none"> i. Smoke detectors that are part of an open area protection system covering the room, corridor, or enclosed space on each side of the smoke door and that are located and spaced as required by spot-type detectors requirement shall be permitted to accomplish smoke door release service. ii. Smoke detectors shall be of the photoelectric or other approved type. iii. If the depth of wall section above the door is 610 mm or less, one ceiling-mounted smoke detector shall be required on one side of the doorway only, or two wall-mounted detectors shall be required, one on each side of the doorway. In Figure 8.3. Part A OR B shall apply. iv. If the depth of wall section above the door is greater than 610 mm on one side only, one ceiling-mounted smoke detector shall be required on the higher side of the doorway only, or one wall-mounted detector shall be required on both sides of the doorway. In Figure 8.3., part D, shall apply. v. If the depth of wall section above the door is greater than 610 mm on both sides, two ceiling-mounted or wall-mounted detectors shall be required, one on each side of the doorway. Figure 8.3., part F, shall apply. vi. If a detector is specifically listed for door frame mounting or if a listed combination or integral detector-door closer assembly is used, only one detector shall be required if installed in the manner recommended by the manufacturer's published instructions. Figure 8.3., parts A, C, and E, shall apply. vii. If the depth of wall section is more than 1524 mm, additional detectors might be required.