

# Architectural Specifications for LiftMaster Model SS-90 C

(For Inclusion within Section 8330 Rolling Fire Doors)

## Part 1 – General

### 1.1 Related Documents

- A. Drawings and general provisions of Contract, including Uniform General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

### 1.2 Work Included

- A. Provide time delay, fail-safe release devices for as manufactured by LiftMaster for fire doors and counter fire shutters (by others).
- B. Installation and wiring of field connections shall be by an authorized installer in accordance with the diagrams, wiring information and instructions contained within the installation manual provided by LiftMaster.

### 1.3 Related Work

- A. Electrical:
  - 1. Smoke detector with auxiliary contact
  - 2. Heat detector with auxiliary contact
  - 3. Annunciator

### 1.4 Quality Assurance

- A. Standards: Comply with applicable requirements of the following standards:
  - 1. UL 864 – Control Units for Fire Protective Signaling Systems
- B. Product Recognition: Each fail-safe release device shall be identified as follows:
  - 1. The manufacturer's name.
  - 2. Label of approved quality control agency.

### 1.5 Submittals

- A. Submit LiftMaster product data sheet and installation instructions
- B. Manuals
  - 1. Furnish copies of installation manual with operating and maintenance instructions, emergency information, parts list, and similar information.
  - 2. Instruct Owner's personnel in proper operation and maintenance.

### 1.6 Warranty

- A. The manufacturer shall guarantee the following:
  - 1. Its product will be free from defects in material and manufacture.
  - 2. This warranty may remain in effect for a period of twenty-four (24) months from completion of the project

## Part 2 – Products

### 2.1 Manufacturer

- A. Acceptable Manufacturer: Chamberlain/LiftMaster, P.O. Box 662, 411 W. 16 St., Hazelton, PA 18201. Telephone: (570) 450-6613.
- B. Model: SS-90 Fail-Safe Release Device for rolling fire doors and counter fire shutters.

### 2.2 Materials

- A. SS90 release device shall be an SS90 Model C, providing independently adjustable delays of 10 seconds on alarm activation (10 sec. max. adjust) and 10 seconds on power loss (30 sec. max. adjust)

- B. The hold/release rating of the device shall be 40 lbs.
- C. The device shall be supplied in \_\_\_\_\_ operating voltage and shall contain internal fuse and transient protection to guard against power surges.
- D. The hold open/release device shall recognize that the door is in the closed position and where motor driven, be capable of sensing that power is available to the motor. The device may be wired to close on alarm.
- E. Optional audible and visual signaling appliances (annunciators) shall operate during the alarm closing cycle.
- F. An internal 72 hour battery pack shall be provided to support alarm logic, smoke detector, release capability and annunciators. Device shall contain low/no battery logic with chassis mount trouble sounder.
- G. Sounder/Strobe device shall be provided to annunciate closure due to alarm or power loss conditions. An optional voice module shall be supplied with \_\_\_\_\_ language(s).
- H. A bottom bar sensing edge (by others) shall be furnished. Upon contact with an obstruction the door shall reverse and repeat the attempt at closure three times. Failure to reach the closed position will activate the auto-close mechanism. The door will rest on the obstruction until it is removed. The audible and visual warning will continue until the door attains full closure through the operator and/or the alarm condition is reset when using mechanical auto close.
- I. Device shall be supplied with a remote test plate.

## **Part 3 – Execution**

### **3.1 Installation**

- A. The SS90 release device shall be installed and tested in accordance with the LiftMaster instructions in compliance with the latest NFPA, U.L., N.E.C., local, county, district and/or other applicable building and fire standards and guidelines, regulations and codes including, but not limited to, all appendices and amendments and the requirements of the local authority having jurisdiction (AHJ).

Note: If the AHJ requires delay on alarm to be less than 10 seconds, or allows the delay on power loss to be a maximum of 30 seconds, the timing changes should be noted at the time of order. Adjustments made to the electronic timing circuits by other than factory-trained personnel may void warranty.

- B. Testing of the release device shall be performed and witnessed for normal operation after installation. Refer to test procedures contained with the installation manual, as well as any other testing programs recommended by the door manufacturer.

### **3.2 Maintenance**

- A. Test intervals shall be as referenced within NFPA 80 – Standard for Fire Doors and Fire Windows, or as determined and subjected to criteria established by the AHJ.
- B. Release device shall be tested and witnessed for proper operation as described within the installation manual.