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This section includes editing notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by the following method in Microsoft Word:

 Display the FILE tab on the ribbon, click OPTIONS, then DISPLAY. Select or deselect HIDDEN TEXT.

This guide specification includes LiftMaster’s commercial door operators for overhead coiling doors and grilles and sectional doors.

The following should be noted in using this specification:

Hypertext links to manufacturer websites are included after manufacturer names to assist in product selection and further research. Hypertext links are shown in blue text, e.g.:

www.acme.com

Optional text requiring a selection by the user is enclosed within brackets and shown in red text, e.g.: Color: [Red.] [Black.]"

Items requiring user input are enclosed within brackets and shown in red text, e.g.: "Section [\_\_ \_\_ \_\_ - \_\_\_\_\_\_\_\_]."

Optional paragraphs are separated by an "OR" statement shown in red text, e.g.:

 \*\*\*\* OR \*\*\*\*

For assistance on the use of the products in this section, contact LiftMaster by calling 800-282-6225 or visit their website at www.LiftMaster.com or visit https://www.liftmaster.com/for-businesses/commercial-door-operators to assist you in editing the below text.

This specification has been prepared based on SimpleSpecs™ specification templates. The SimpleSpecs™ Master Guide Specification system comprises a full architectural master specification that can be used to specify all project requirements. For additional information on SimpleSpecs™ products visit the ZeroDocs.com website at www.zerodocs.com.

**SECTION 08 71 23 – COMMERICAL DOOR OPERATORS**

 GENERAL

 SUBMITTALS

 Action Submittals:

 Product Data: Manufacturer’s descriptive data and product attributes.

 Closeout Submittals:

 Operation and Maintenance Data.

 QUALITY ASSURANCE

 Installer Qualifications: Firm specializing in work of this Section, with minimum [2] [\_\_] years’ experience.

 WARRANTY

Model ATSW carries a 1 year warranty. All other models carry a 2 year warranty.

 Manufacturer’s [1] [2] year warranty against material and manufacturing defects.

 PRODUCTS

 MANUFACTURERS

 Contract Documents are based on products by LiftMaster. [www.LiftMaster.com](http://www.liftmaster.com/)

 Substitutions: [Refer to Division 01.] [Not permitted.]

 MANUFACTURED UNITS

NEMA enclosures are rated as follows:

* NEMA 1: Indoor installation, where it is not necessary to seal out dust, oil, and water (such as most warehouses).
* NEMA 4: Indoor installation to protect operator where pressurized water may be in use, where other activities involving wash-downs or machine tool cutter coolant takes place, or outdoors were protection from rain, sleet, or snow may be needed (such as car washes).
* NEMA 4X: In addition to what is required in NEMA 4; to protect against harsh environments, or where caustic cleaners, disinfectants, or corrosive materials are in widespread and repeated use (such as indoor pools).
* NEMA 7/9: To protect against explosive materials, gases, or vapors.

Retain the following for an apartment type trolley operator for high-cycle, standard lift sectional doors. Refer to LiftMaster technical literature for maximum door sizes and weights.

 Door Operators:

 Model: APT.

 Operation: Trolley.

 Drive type: V-belt primary reduction.

 Mounting: Ceiling.

 Disconnect for manual operation: Quick disconnect door arm.

 Rated duty cycle: Maximum 25 cycles per hour or 125 cycles per day.

 Meet UL 325.

 Motor: Listed by Underwriters Laboratories, sized to door conditions.

 Enclosure: NEMA 1.

 Travel rate: 6 to 7 inches per second.

 Radio receiver: Logic 5.0 on-board; accept Security+ rolling code technology remote controls and binary DIP switch remote controls.

 Internet connectivity: 50 channel FHSS myQ technology.

* + - 1. Control station: [Three push button type] [Three position key operated type] in NEMA [1] [4] [4X] [7/9] enclosure.
			2. Remote controls: [One button DIP.] [Three button DIP.] [Two button rolling code Security+ 2.0.] [Four button rolling code Security+ 2.0.]
			3. Primary monitored entrapment protection: [Photo eyes, rigid housing.] [Photo eyes, flexible housing.] [Light curtain.] [Retro-reflective sensor system.] [Sensing edge system.] [Optical edge sensing system.]
			4. Secondary non-monitored entrapment protection: [Photo eyes, rigid housing.] [Photo eyes, flexible housing.] [Light curtain.] [Retro-reflective sensor system.] [Sensing edge system.] [Optical edge sensing system.] [Pneumatic sensing edge.]

 Track: Dual L-rail trolley track.

 EXECUTION

 INSTALLATION

 Install in accordance with manufacturer’s instructions.

 CLOSEOUT ACTIVITIES

* + 1. Test and adjust operators for proper operation.

 Demonstration: Demonstrate operation and programming of operators to Owner.

END OF SECTION