SECTION 08731

AUTOMATIC DOOR OPERATORS - COMMERCIAL



Display hidden notes to specifier by using “Tools”/“Options”/“Display”/“Hidden Text”.

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\*\* NOTE TO SPECIFIER \*\* LiftMaster Commercial Automatic Door Operators.

This section is based on the products of The LiftMaster Group, Inc., which is located at:

 845 Larch Avenue

 Elmhurst, IL 60126-1196

 Tel: 800.282.6225

 Fax: 630.516.8412

 Email: specs@LiftMaster.com

 Web: LiftMaster.com

 [{click Here} for additional information.](http://www.arcat.com/arcatcos/cos42/arc42485.html?src=spec)

LiftMaster’s full commercial and residential garage door operator/gate operator/access control product lines meet the needs of Architects, Designers, Engineers, and Specifiers in any design or conceptual plan, while offering 100 percent compliance with UL 325-2010 safety and construction codes.  Our entire product line also contributes to energy-efficiency credits for LEED green building certification from the U.S. Green Building Council.  LiftMaster is a registered presenter of the American Institute of Architects and is approved to present any of our AIA CEUs at your firm’s location. For learning objectives and to schedule a Lunch & Learn for your firm, please send a request to specs@LiftMaster.com.  To find a complete library of architectural specifications, shop drawings, CSI format 3-part specs, CAD, and BIM product renderings, visit LiftMaster.com.

1. GENERAL
	1. SECTION INCLUDES
		1. Jackshaft-Type Door Operators:
			1. Jackshaft-type door operators for light-duty commercial standard and high lift (5 feet [1524 mm] high lift maximum) sectional doors (LiftMaster Model 3900).
	2. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 06100 - Rough Carpentry: Installation and requirements for blocking and nailers.
		2. Section 16050 - Basic Electrical Materials and Methods: Installation and requirements for electrical connections.
	1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. National Electrical Manufacturers Association (NEMA): NEMA ICS 6 - Industrial Control and Systems: Enclosures.
	1. SUBMITTALS
		1. Submit under provisions of Section 01300.
		2. Product Data: Manufacturer’s data sheets on each product to be used, including:
			1. Preparation instructions and recommendations.
			2. Storage and handling requirements and recommendations.
			3. Installation methods.
			4. Cleaning methods.
		3. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including anchorage, edge conditions, and accessories.
	2. DELIVERY, STORAGE, AND HANDLING
		1. Store products in manufacturer’s unopened packaging with labels intact until ready for installation.
		2. Schedule delivery of door operator so that spaces are sufficiently complete that door operators can be installed immediately upon delivery.
	3. WARRANTY
		1. Manufacturer’s standard limited 2-year warranty against material and manufacturing defects with the exception of LiftMaster Model ATS2113X, which carries a limited 1-year warranty.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: LiftMaster; 845 Larch Avenue; Elmhurst, IL 60126-1196. Toll-Free: 800.282.6225. Email: specs@LiftMaster.com. Web: LiftMaster.com.

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01600.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. JACKSHAFT-TYPE DOOR OPERATORS
		1. Light-Duty Jackshaft Operator: LiftMaster 3900 Light-Duty Wall-Mount Operator, limited-duty (recommended duty of 10 cycles per hour maximum).
			1. Standard and high-lift (maximum 5 feet [1524 mm] high-lift) sectional doors with torsion assemblies, measuring up to 14 feet (4267 mm) high and up to 18 feet (5486 mm) wide, but not exceeding 180 square feet (16.7 sq. m) or 650 pounds (295 kg).
			2. Electric Operator: Light-duty assembly, cULus listed and cULus labeled, with electric motor and factory-prewired motor controls, emergency release handle, 1-button control station and accessories required for proper operation. UL 325 compliant operation.
				1. Electric Motor: Heavy-duty 24V DC motor provides ultra-quiet operation, along with variable-speed smooth start and stop. Quick-connect terminals and 6-foot (1829 mm) power cord. 120V AC, 60 Hz input voltage.
				2. Cable Tension Monitor: Door shall reverse when excessive cable slack is detected.

\*\* NOTE TO SPECIFIER \*\* Controls with 2 and 3 buttons are available.

* + - * 1. 1-button station for open and close functions with type B2 control wiring (standard for all operators).
			1. Primary Entrapment Protection Devices:
				1. The Protector System Safety Sensors: A “non-contact” photo safety sensor designed to sense an obstruction and signal the door operator to reverse to open.
			2. Accessories: Provide the following.

\*\* NOTE TO SPECIFIER \*\* Delete accessories not required.

* + - * 1. LiftMaster 41A6102 Power Door Lock: Prevents the door from being manually forced open once fully closed.
				2. LiftMaster 475LM Battery Backup System: Operates the door operator for up to 20 full cycles within a 24-hour period.
				3. LiftMaster 480LM Alternate Mounting Kit: Allows operator to be mounted below the torsion bar.
				4. LiftMaster 380LM Remote Worklight: Adds 200 watts of light with adjustable light time delay; unlimited number of lights can be added.
				5. LiftMaster 377LM Keyless Entry: Allows door to open or close by using a code programmed directly into the unit.
1. EXECUTION
	1. EXAMINATION AND PREPARATION
		1. Do not proceed with installation until substrates have been properly prepared and deviations from manufacturer’s recommended tolerances are corrected.
		2. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer’s recommended installation tolerances and conditions. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions. Commencement of installation constitutes acceptance of conditions.
	2. INSTALLATION
		1. Install in accordance with manufacturer’s instructions and in proper relationship with adjacent construction. Test for proper operation and adjust until satisfactory results are obtained. Demonstrate operation to owner’s personnel.
	3. PROTECTION
		1. Protect installed products until completion of project.
		2. Touch up, repair or replace damaged products before Substantial Completion.

END OF SECTION