OMEGA AUTOMATICS SLIDING DOOR

SPECIFICATION

V 1.03

Date: Jan 2019

105 Haist Ave Unit #7 ● Vaughan, ON L4L 5V6
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1. General

1.1 Supply and install Omega Automatics Model OASL-88 sliding entrance systems as shown on the drawing and manufactured by Omega Automatics Inc., 105 Haist Avenue, Unit 7,8, Vaughan, Ontario, Canada. The system shall consist of sliding aluminum door(s) and sidelight(s) unglazed, header slider and actuating controls.

1.2 Related Work Specified in Other Sections

The general contractor shall coordinate the work of all trades, including glass and glazing, masonry, and electrical requirements covered in manufacture's detail and appropriate sections of the specifications.

1.2.1 Electrical Section

The contractor shall provide 120 Volts AC 60 cycles, single-phase service to slider junction box. The service to be 15 Amps for 1-2 sliders and 20 Amps for 3-4 sliders.

1.3 All automatic entrance equipment is to comply with ANSI A 156.10 and be UL/CE listed.

1.4 Aluminum extrusions to have an anodized finish of clear anodized or dark bronze. Special and painted finish available upon request. Specify color finish.

1.5 All equipment must operate between -20°C and +55°C in all climate conditions.

1.6 Installation

To be installed by approved and trained by the manufacturer in strict accordance with manufacturer's instructions and fire marshal's listing requirements.

1.7 Submittals

OASD-1: Provide complete shop drawing and/or manufacturer's detail catalogue layout sheets, including all necessary wiring diagrams and data necessary for the proper preparation on interface connections by other trades.

OASD-2: Provide a label on the equipment listing the company name and phone number for service.

1.8 Delivery and Storage

Deliver materials under protective cover and store within dry enclosed spaces at the building. Protect from damage prior to and during installation.

1.9 Job Conditions:

Verify conditions and dimensions at the site prior to delivery of materials to site.

2. Product

2.1 The Omega OASL-88 sliding door system shall be completely engineered, manufactured and assembled by Omega Automatics Inc. Each unit shall undergo the Omega quality control inspection to ensure the highest standards before being released for shipment. All slider components shall be factory assembled in the header, adjusted and tested.

2.2 Door and Frames: The header shall be extruded aluminum to which the slider and door mounting components are attached. The header must be designed to support bi-parting doors of 250 lbs. Per leaf over a span of 18 feet with minimal deflection. The active doors shall be equipped with panic breakaway hardware for emergency exit situation. Track and cap are replaceable without replacing header. The cover shall have self-locking design which when open allows the cover to be flush with top of header.

Notes: To satisfy requirements for LEED Green Building Rating System, material contains 10% post consumer aluminum, 30% prime aluminum, and 60% pre-consumer aluminum.

2.3 Slider

2.3.1 The door shall be driven by electromechanical 1/8 hp, brushless molded DC motor enclosed hypoid gear system that offers higher speed range and faster acceleration with a maximum speed of 600 mm/sec.

2.3.2 The slider shall be mounted and concealed in header with self-locking cover design.

2.3.3 The door opening and closing speed has up to 10 adjustable step speeds, 200 mm/sec to 600 mm/sec.

2.3.4 The control board allows the door to re-start at full speed without going to search mode after it has been obstructed.

2.3.5 The control board must have adjustable torque settings; it has a built-in failure detection system. It automatically resets by sensor signal or after 15 seconds time out.

2.3.6 The slider shall reverse when a maximum force of 28 lbf is applied to prevent the door from closing. This automatic reverse function is adjustable on field.

2.3.7 The control board must be digital, with individual adjustment for open high speed/ open low speed/ open braking force, close high speed/ close low speed and braking force.

2.3.8 On-Off-Hold switch located inside header. Under power failure, the slider will be in manual mode.

2.3.9 The slider shall be equipped with switch to control mode of operation, on-off-hold open and one way. The opening and closing modes will be per ANSI standard A 156.10, sec. 5.2.3

2.3.10 Slider has an optional motor with electronics lock.

2.4 Activating Device

The Omega sliding door is compatible with any door sensing devices. The standard equipment that is supplied with the door is the Optex model X-Zone T motion /presence sensor. (a dual channel hold-open beam for additional safety is available for optional package). The Optex X-Zone T motion /presence sensors uses active infrared detection. The detection pattern is adjustable in the field. There shall be surface mounted active infrared presence detector above the active and above the fixed sidelight panel to offer full protection on entire doorway and sidelight area. The operating temperature for Optex X-Zone T sensor is -20°C to +55°C.

3. Execution

Prior to installation, the site condition must meet the requirements of the manufacture's personnel in which the sliding door will be installed. Any site condition that is not satisfactory to the installer must be reported to the general contractor in writing and only to proceed work when conditions are corrected in a satisfactory manner to the installer.

The technician will check and clean the doors completely before leaving the site. The owner or general contractor will be advised of any precaution required for the sliding door to ensure the entrance doors will be without deficiency at acceptance time.