



SECTION#08460
ARCHITECTURAL SPECIFICATION
AUTOMATIC SLIDING DOOR

MODEL # SMART SLIDE SL-800

1. GENERAL

1.1 Summary

A. Work included: Furnishing and installing factory fabricated and finished Automatic sliding door system.

B. Related Work: [Insert applicable section including]

1. Section 07900 – Caulking
2. Section 08400 – Entrances and Storefronts
3. Section 08710 – Finished Hardware
4. Section 08800 – Glazing
5. Section 12670 – Entrance Mats
6. Section 16120 – Electrical Supply and Termination

1.2 Submittals

A. Product Data: Provide manufacturer's product and complete installation data for all materials in this specification.

B. Shop Drawings: Show profiles, joining methods, location of components, anchorage details, adjacent construction interfacing and dimensions as well as all necessary wiring and electrical requirements.

C. Samples: Sized to adequately represent material

D. Contract Closeout: Submit the Manufacturer's warranty and performance certification (if applicable)

E. Installation Guide: Provide written installation and operating manuals and/or installation recommendations.

1.3 Quality Assurance

A. Installation and maintenance shall be performed by an authorized dealer and in strict compliance with the manufacturer's recommendations.

B. Installing dealer shall provide factory authorized and trained service professionals 24 hours a day, seven days a week. The installing and servicing dealer shall be a certified member of AAADM (American Association of Automatic Door Manufacturers).

C. Micom Sliding Door product(s) and other products provided conform to the following codes and standards:

ANSI/BHMA A156.10 – Power Operated Pedestrian Doors.

ANSI/UL325 – Door, Drapery, Gate, Louver and Window Operators and Systems.

CUL/USA Listed – Product Safety.

ASTM E283-91 Air Infiltration and ASTM E330-07 Wind Loading.

AMSI Z97.1 Glazing Materials and AAMA 1303.5 Forced Entry.



SECTION#08460
ARCHITECTURAL SPECIFICATION
AUTOMATIC SLIDING DOOR

MODEL # SMART SLIDE SL-800

1.4 Product Handling

- A. All materials shall arrive in the manufacturer's original sealed, labelled containers.
- B. Store materials in a dry, protected, well-vented area. Reports damaged material immediately to the delivering carrier and note such damage on the carrier's freight bill of lading.
- C. Remove all protective materials after installation.

1.5 Job Condition

- A. Verify that other trades are complete before installing the automatic sliding door system.
- B. Mounting surfaces shall be plumb, straight and secure; substrates shall be proper dimension and material.
- C. Refer to the construction documents, shop drawings and manufacturer's installation instructions.
- D. Coordinate installation with the glass, glazing and electrical work.
- E. Observe all appropriate OSHA safety guidelines for this work.

1.6 Warranty/Guarantee

- A. Manufacturer's Standard Limited Warranty: Warranted materials shall be free of defect in material and workmanship for three years after installation.

2. PRODUCTS

2.1 Manufacturer: MICOM AMERICAS INC.

Micom Americas INC.
(905)851-8688
220 Viceroy Road Unit 15
Vaughan, ON, L4K 3C2

2.2 Automatic Sliding Door System

- A. Automatic Sliding Door System: Shall be MICOM Series SMART SLIDE SL800. The system shall consist of sliding aluminum door(s) and sidelight(s) (unglazed) with security glass stops, header, jambs, guide threshold, actuating and safety controls. The system shall be completely engineered, manufactured and assembled by Micom. All components shall be factory assembled in the header and tested. Field wiring consists of connection to job-site power and low voltage actuators.
- B. Sliding Aluminum Doors: Provide narrow stile through bolted units to dimension heights and widths with corresponding glazing as shown on order confirmation. Glass thickness may be 1/4" (6mm) or 5/8" (16mm). The door shall have an intermediate rail(s). The bi-part sliding door system shall include a two-point MS deadlock securing the lead edges of the door stiles together and to the active door carrier assembly or for single slide a one point MS deadlock securing the



SECTION#08460
ARCHITECTURAL SPECIFICATION
AUTOMATIC SLIDING DOOR

MODEL # SMART SLIDE SL-800

latch stile to the vertical lock jamb. Each door panel shall include interlocking that securely latches the swing out panel(s) to the sliding panel(s) in the fully closed position. The active sliding door shall be provided with a key cylinder on the exterior and a thumbturn on the interior.

Breakaway (SX) panels to have top and bottom concealed pivots recessed into the extruded aluminum.

- C. Door Operation / Emergency Breakaway: Shall be single slide or bi-part slide, one-way or two-way traffic. Breakaway (SX & SO) panels shall allow "breakout" (50lbs max pressure ANSI/BHMA A156.10) to the full open position to provide instant egress at any point in the door's movement. Door(s) and sidelight(s) shall be sized to prevent pinch point at meeting stiles.
- D. Aluminum Frame & Extrusions: Shall be a minimum .125" (3mm) in integral structural sections. The frame shall be 4 1/2" (114mm) deep x 1 3/4" wide (44mm) section. The bi-part transom package shall contain one vertical transom tube (specify if desired). Transoms are available for 1/4" (6mm) or 1" (24mm) glazing. Aluminum door extrusions to be narrow stile heavy wall (1/8" thick) for maximum strength and maximum door opening width. All extruded aluminum to be 6063-T5.
- E. Aluminum Extrusion Finish: Standard anodized finish shall be Clear, or Dark Bronze. Medium Bronze, special anodized, painted and clad finishes are available upon request. Specify type and color.
- F. Aluminum Sidelight(s): Provide narrow stile through bolted sidelight door panel(s) to dimension heights and widths as shown on order confirmation with corresponding glazing. Glass stops to accommodate 1/4" (6mm) or 5/8" (16mm) glass. The door shall have intermediate rail(s). Each (SO) door panel shall include interlocking that securely latches the fully closed position. The (SO) sidelight(s) shall swing and allow instant egress at any point in the doors movement. Air infiltration and water penetration will meet or exceed ASTM E283 and ASTM E547 respectively.
- G. Header Case: Shall be 4 1/2" wide x 7 1/2" high (108 mm x 180mm) extruded aluminum. The header shall be capable of supporting a single door leaf of 300 pounds or bi-parting door leaf of 225 pounds each over a span of 16' with minimal deflection. It shall contain the MICOM SMART slide system and door mounting components. The header cover shall have a continuous hinge and open flush with the top of the header.
- H. Door Carrier Wheels: Shall be 2 1/2" (64mm) diameter urethane wheels with precision lifetime lubricated ball bearing centres. The sliding door(s) shall be held on the track by 2 Delrin anti riser blocks. The roller track shall be field replaceable. Doors can be adjusted down up to 1/2".
- I. Guide Threshold Track: Aluminum threshold track shall be required to guide the slide panel(s) from close to open and open to close. The guide threshold track is available in the following profiles, surface double bevel; surface combination bevel/square and recessed. Options are field adjustable by snap-off bevelled edge. Surface applied track can either be full length or only below sidelight(s), leaving a clear floor in entrance.



SECTION#08460
ARCHITECTURAL SPECIFICATION
AUTOMATIC SLIDING DOOR

MODEL # SMART SLIDE SL-800

- J. MICOM Smart Slide System: The drive system shall consist of an electromechanical 75W, brushless DC SPP (Standard Performance Plus) motor and enclosed hypoid gear system that offers higher speed range and faster acceleration with maximum opening speed of 750 mm/sec. Provide 120 VAC, 3 amps single-phase power supply minimum to operator
- K. Ferrite Chip Control Unit: The MICOM control system shall monitor doorway holding beams, door position, electric lock position, activators, motor temperature, and condition of power. The microprocessor control shall perform on a continuous basis a self-diagnostic system check and shall display faults by flashing LED's and/or buzzer noise on the control panel. Torque shall be factory set as prescribed by ANSI A156.10. In the event of power failure active doors may be opened or closed manually.
- L. Electrical: The electrical contractor shall provide 120V AC, 60Hz Single Phase, 15Amp service to the door operator system on a separate dedicated circuit. All wiring shall be housed in a separate channel raceway away from all moving parts. (Motor current draw shall be 3 amps or less for each door operator).
- M. Doorway Holding Beams: Doorway holding beams (optional if used with code compliant overhead sensors) shall be the factory installed at 24" (610 mm) and 48" (1219 mm) from finished floor. The beam when interrupted shall inhibit an open door from closing.
- N. Motion Sensor: Activation device provided shall include self-contained motion/presence detector mounted on each side of the door for traffic detection in each direction. Sensor uses planar K-Band to detect motion and Infrared to detect presence for safety purposes. The presence detection feature never shuts off during the closing cycle of sliding door. The device shall be self monitoring and in physical communication with MICOM control for door(s) to go into fail safe mode in the event of sensor failure. Sensor adjustments can be made directly or by hand held remote control.
- O. Reverse on Obstruction with Safety Search Circuitry: The door(s) shall recycle open if an object is encountered during the closing cycle. The circuitry shall time-out for 5 seconds then search for that object at 50% speed on the next closing cycle. If the obstruction is encountered again the door(s) will recycle open. The door(s) shall keep timing-out and recycling at 50% speed until obstruction is cleared. If an object is encountered while opening, the door(s) will stop, reverse direction one inch, time-out for 5 seconds and close at 50% speed. The next opening the circuitry shall search for that object at 50% speed. If the obstruction is encountered again the door(s) shall stop reverse direction one inch, time out and close. The door(s) shall continue recycling at 50% until the object is cleared.
- P. Door Motion Adjustments: The MICOM control digital interface provides the means for the following door adjustments; open high speed, open low speed, open braking force, close high speed, close low speed, close braking force, opening time.
- Q. Accessories: The MICOM automatic sliding door package shall have the following accessories to reduce energy loss: Nylon sweep(s) on the bottom of the sliding door(s), double pile weather-stripping for the sliding door lead edges, single pile weather-stripping between the carrier and the header on the lead stile(s) of sidelight(s) and the pivot stile(s) of the sliding door(s).



SECTION#08460
ARCHITECTURAL SPECIFICATION
AUTOMATIC SLIDING DOOR

MODEL # SMART SLIDE SL-800

R. Options:

- a) Medium Stile Door panels.
- b) Custom height door bottom rails.
- c) 90 degree Limit arms in SO and SX panels.
- d) Program switch for daily operation.

S. ACCESS CONTROL Options:

- a) Lock Indicator hardware.
- b) Hydraulic concealed door closers in SO and SX panels.
- c) Magnetic Breakaway Latch Device.
- d) Battery Backup (200 cycle) power supply (concealed within header).
- e) Electric Lock – Fail Secure or Fail Safe configuration.
- f) Recessed (86F) Panic device for SX panel(s).
- g) Keyed Multi-Function Program Switches.

2.3 OPERATING CONDITIONS

- A. Climate Conditions: All automatic sliding door system components shall operate between –4 F (- 20C) and +120F (50C) in all climate conditions.

3. EXECUTION

3.1 Inspection

- A. Verify that the automatic sliding door system installation will not disrupt other trades. The door installer shall verify that the installation area is dry, clean and free of foreign matter. Check as-built conditions and verify the manufacturer's automatic sliding entrance system details for accuracy to fit the wall assembly prior to fabrication. Report in writing to the Contractor any detrimental conditions to the proper functioning of the automatic sliding entrance system. Installation shall proceed once the unsatisfactory conditions have been corrected in accordance to the manufacturer's recommendations.

3.2 Installation of Automatic Sliding Door System

- A. Installation shall be by an installer approved and trained by the manufacturer in strict accordance with the manufacturer's instructions and fire marshal's listing requirements.
- B. Comply with the automatic sliding door system manufacturer's recommendations and/or installation guide when installing the automatic sliding entrance system. Set all units plumb, level and true.
- C. Provide all fasteners required for installation of the automatic sliding door system.
- D. Adjustment and Cleaning: After repeated operation of the completed installation, re-adjust door operators and controls for optimum operating condition and safety. Clean all metal surfaces promptly after installation.



SECTION#08460
ARCHITECTURAL SPECIFICATION
AUTOMATIC SLIDING DOOR

MODEL # SMART SLIDE SL-800

E. Explain and review the Daily Safety Check Procedure.

END SECTION 08460