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## ARCHITECTURAL SPECS

### INDUSTRIAL DOORS

**RapidSlide®**  
**Automatic Electric Belt Drive Operator**  
**with Thermacore® Steel Door Panels**

**C4.0**

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#### **DIVISION 08 - OPENINGS**

#### **SECTION 08 17 00 – INTEGRATED INDUSTRIAL DOOR OPENING ASSEMBLIES**

*Specifier Note: Coordinate and edit articles and paragraphs below to suit project requirements. Add section numbers and titles per CSI "MasterFormat" and specifier's practice. Consult with manufacturer regarding performance requirements for units applicable to project, as well as, related equipment and accessories required.*

#### **PART I – GENERAL**

##### **1.01 SUMMARY**

- A. WORK INCLUDED: Furnish complete automatic industrial door system, as specified, that has been manufactured, fabricated and installed to maintain performance criteria stated by manufacturer without defects, damage or failure.
- B. RELATED WORK:
  - 1. Concrete: Division 03, applicable sections.
  - 2. Masonry: Division 04, applicable sections.
  - 3. Openings: Division 08, applicable sections.
  - 4. Electrical: Division 26, applicable sections.

##### **1.02 REFERENCES**

- A. THE ALUMINUM ASSOCIATION (AA) Aluminum Finishes Manual.
- B. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) B221: Aluminum-Alloy Extruded Bars, Rods, Shapes and Tubes.
- C. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) Z97.1: Safety Glazing Materials Used in Buildings - Methods of Test.
- D. INTERTEK, WARNOCK HERSEY (ETL): Testing Laboratory and Certification Agency joined with ETL SEMKO
- E. UNDERWRITERS LABORATORY, INC. (USA & CANADA) UL 325: Electrical Door, Drapery, Gate, Louver, and Window Operators and Systems.

##### **1.03 SUBMITTALS**

- A. SHOP DRAWINGS & PRODUCT DATA: Submit drawings and product data showing layout, profiles, product components including anchorage, accessories, finish and glazing details (where required).
- B. CLOSEOUT SUBMITTALS: Owner's Manual & Warranty document as specified herein.

##### **1.04 QUALITY ASSURANCE AND PERFORMANCE REQUIREMENTS**

- A. INSTALLERS QUALIFICATIONS: Installer shall be factory trained, certified by AAADM, and experienced to perform work of this section.
- B. MANUFACTURER'S QUALIFICATIONS: Manufacturer to have minimum (5) five years successful experience in the fabrication of automatic doors of the type required for this project. Manufacturer capable of providing field service representation during installation, approving acceptable installer and approving application method.
- C. CERTIFICATIONS: ETL Listed: Tested to UL 325 Standard
- D. OPERATING RANGE: -30° F to 130° F (-34° C to 54° C)



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E. CLOSING FORCE REQUIREMENTS: Maximum force required to prevent sliding panel from closing = 28 lbf. (124.5 N) Adjustable Reversing Circuit will reopen door unit if closing path is obstructed.

F. HEADER CAPACITY: Header shall be capable of supporting:

1. Biparting: Up to 300 lbs. (136 kg) per slide panel over spans up to 16'-0" (4877mm) without intermediate supports.
2. Single Slide: Up to 500 lbs. (227 kg) per slide panel over spans up to 9'-0" (2743mm) without intermediate supports

#### 1.05 WARRANTIES

A. MANUFACTURER'S WARRANTY: Units to be warranted against defect in material and workmanship for a period of one year from the Date of Substantial Completion. Manufacturer's warranty is in addition to, and not limited to, other rights owner may have under Contract Documents.

B. DISTRIBUTOR'S WARRANTY: 1 year warranty: Labor/ transportation charges for defective parts replacement.

#### 1.06 PROJECT CONDITIONS

FIELD MEASUREMENTS: Verify actual dimensions/openings by field measurements before fabrication and record on shop drawings. Coordinate with fabrication and construction schedule to avoid construction delays.

#### 1.07 DELIVERY, STORAGE AND HANDLING

A. ORDERING AND DELIVERY: Comply with factory's ordering instructions and lead time requirements. Delivery shall be in factory's original, unopened, undamaged containers with identification labels intact.

B. STORAGE AND PROTECTION: Provide protection from exposure to harmful weather conditions and vandalism.

### PART II – PRODUCTS

#### 2.01 MANUFACTURER

HORTON AUTOMATICS, a division of Overhead Door Corporation, shall manufacture automatic industrial door(s) of type(s) and size(s) specified on plans and door schedule.

#### 2.02 EQUIPMENT

A. MANUFACTURED DOOR UNITS: Shall include operator, header with roller track, carrier assemblies, sliding door panel(s), floor mounted guide(s), activation, safety devices and accessories required for complete installation.

B. OPERATOR: The Electric Operating Mechanism shall be HD-Slide® Series 2001 Belt Drive. Maximum current draw shall not exceed 3.15 amps. The heavy duty operator shall be mounted and concealed within the header.

1. Operating force shall be accomplished through a 1/8 HP DC permanent magnet motor with heavy duty worm gear transmission and 1800 RPM working with reinforced drive belt, attached 1/4" thick steel door hangers, and idler pulley (1/4 HP motor required for door panels weighing 500 lbs). Drive belt to be steel reinforced nylon, 1" (25.4 mm) wide. Idler pulley to be reinforced, metallic material.
2. Master Control shall be 16 bit microprocessor controller with dual on-board seven-segment alphanumeric diagnostic display and position encoder. The encoder shall monitor revolutions of the operator shaft and send signals to microprocessor controller to define door position and speed. The control shall have minimum of 28 programmable parameters including the following functions as required by ANSI A156.10:



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- a. Adjustable opening and closing speeds.
  - b. Adjustable back-check and latching.
  - c. Adjustable braking.
  - d. Adjustable hold-open time between 1 to 30 seconds.
  - e. Adjustable Reversing Circuit will reopen door unit if closing path is obstructed.
  - f. Separate day and night modes of operation with security over-ride.
3. On/Off Switch shall be supplied. When switched OFF, unit reverts to free manual operation (likewise during electrical power failure).

#### C. SECURITY AND SAFETY POWER FAIL OPTIONS:

1. Automatic lock: Automatically locks slide function of door when in closed position. Additional power supply for autolock not acceptable.
  - a. Autolock Fail Secure: If power fails the lock engages.
  - b. Autolock Fail Safe: If power fails the lock disengages.
2. Monitored Power Fail Options (battery back-up):
  - a. Software Selectable Power Fail Open: If power fails the door slides open.
  - b. Software Selectable Power Fail Close: If power fails the door slides closed.

D. HD-SLIDE® HEADER: Shall be 6" (152 mm) deep by 8" (203 mm) high, heavy duty aluminum construction with removable face plate and extruded support brackets for dead load and lateral strength.

E. CARRIER ASSEMBLIES AND HEADER ROLLER TRACK: Carrier assemblies shall support door panels with minimum four rollers per panel. Rollers will be non-metallic high quality ball bearing wheels 2" (51 mm) diameter. Anti-Derailing shall be accomplished by means of a continuous aluminum extrusion full length of slide panel travel. Overhead header roller track shall be continuous aluminum.

F. DOOR PANEL: Thermacore® insulated sectional steel door assembly shall have 24" (610 mm) modular sections as required. Panel will be metal/foam/metal sandwich panel construction, with thermal break. Panel shall be finished with an Alpine White smooth, baked on, polyester enamel paint. Exterior framing channels shall be extruded aluminum alloy with retainer for perimeter vinyl weather stripping. Nominal panel thickness shall be 2" (51mm). Floor mounted guide shall be concealed Delrin block and shall stabilize bottom of sliding door panel. Panel shall include one Vision Lite: 12" (305mm) x 25" (635mm) oval shaped, double thermal acrylic glazing with rubber sealing perimeter gasket. Additional Vision Lites optional.

#### 2.03 RELATED EQUIPMENT

- A. ACTIVATING DEVICE: Shall be 24 VAC, class II circuit. Switch to be located on each side of the opening and shall be one of the following:
1. Push Plate Wall Switch: Momentary contact switch, 6 1/4" (159 mm) dia. stainless steel plate on standard junction box.
  2. Motion Sensor: Mounted above opening on header or wall.
- B. SAFETY DEVICE: Hold-open beams: Two LED pulsed infrared photoelectric beams to be wall-mounted in vertical posts at heights of 24" (610 mm) and 48" (1219mm). Sender/receiver arrangement parallels door opening; Holds door open when interrupted and door is in open position; recycles door when closing (does not activate door when unit is fully closed).

#### 2.04 RELATED WORK REQUIREMENTS

- A. ELECTRICAL: 120 VAC, 60 cycle, 1 phase, 15 amp. Non-North American voltages can be 240 VAC (operator must have 240 volt power supply)



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### 2.05 MATERIALS, FINISHES AND FABRICATION

- A. EXTRUDED ALUMINUM: ASTM B221, 6063-T5 alloy and temper, anodized. Structural Header Sections: Minimum 3/16" (5 mm) thickness.
- B. EXPOSED ALUMINUM FINISH: 204-R1 Clear: Arch. Class 2 Clear Anodized Coating, AA-MI2C22A31.
- C. OPERATOR CONSTRUCTION: Electromechanical, modular type construction.

### PART III - EXECUTION

#### 3.01 EXAMINATION

SITE VERIFICATION OF CONDITIONS: Installer must verify that base conditions are acceptable for product installation according to with manufacturer's instructions. Notify the Contractor in writing of conditions detrimental to the proper and timely completion of work. Do not start work until all negative conditions are corrected.

#### 3.02 INSTALLATION

- A. GENERAL: Installer shall be factory trained and experienced to perform work of this section. Install door units plumb, level and true to line, without warp or rack of frames with manufacturer's prescribed tolerances. Provide support and anchor in place. Provide weather-tight construction.
- B. ELECTRICAL: General or electrical contractor to install all wiring to operator on a separate circuit breaker routed into header. General or electrical contractor also to install all necessary power and low voltage wiring for proper operation of associated security systems.

#### 3.03 CLEANING, ADJUSTMENT AND PROTECTION

CLEANING: After installation, installer will clean product surfaces and lubricate operating equipment for optimum condition and safety. Advise contractor of precautions required through the remainder of the construction period, to ensure that doors will be without damage or deterioration at the time of acceptance.

*Note: Horton Automatics reserves the right to make product improvements and change specifications without notice.*

**END OF SECTION**