



® 4242 Baldwin Boulevard  
Corpus Christi, Texas  
USA 78405-3399  
Tel: 800-531-3111, 361-888-5591  
Fax: 800-531-3108, 361-888-6510  
[www.hortondoors.com](http://www.hortondoors.com)  
*The Automatic Choice*

## ARCHITECTURAL SPECS

### AUTOMATIC SLIDING DOORS

**HD-Slide® Series 2001-LL** **A24.1**  
**Lead Lined Heavy Duty Sliding Door System**  
**with Electric Belt Drive Operator**  
Page 1 of 4, May 18

#### **DIVISION 08 - OPENINGS** **SECTION 08 42 29.23 SLIDING AUTOMATIC ENTRANCES**

*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 aluminum lead lined 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. AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA) 101: Appendix Dissimilar Materials.
- B. AMERICAN ASSOCIATION OF AUTOMATIC DOOR MANUFACTURERS (AAADM).
- C. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) Z97.1: Safety Glazing Materials Used in Buildings - Methods of Test.
- D. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) B221: Aluminum-Alloy Extruded Bars, Rods, Shapes and Tubes.
- E. THE ALUMINUM ASSOCIATION (AA) Aluminum Finishes Manual.

##### **1.03 SUBMITTALS**

- A. PRODUCT DATA: Submit manufacturer's complete product and installation data.
- B. SHOP DRAWINGS: Submit drawings showing layout, profiles, product components including anchorage, accessories, finish and glazing details (where required).

##### **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.

##### **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 a limitation of, other rights owner may have under Contract Documents



® 4242 Baldwin Boulevard  
Corpus Christi, Texas  
USA 78405-3399  
Tel: 800-531-3111, 361-888-5591  
Fax: 800-531-3108, 361-888-6510  
**www.hortondoors.com**  
*The Automatic Choice*

## ARCHITECTURAL SPECS

### AUTOMATIC SLIDING DOORS

**HD-Slide® Series 2001-LL**

**A24.2**

**Lead Lined Heavy Duty Sliding Door System  
with Electric Belt Drive Operator**

Page 2 of 4, May 18

B. DISTRIBUTOR'S WARRANTY: One 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 sliding 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, framing jambs, sliding door panel(s), activation, safety devices and accessories required for complete installation.
1. Configuration: Single Slide 'P-X' or 'X-P' (handing as viewed from face plate side)
  2. Mounting Type: Surface mounted
  3. Door Type: Type 010: Sliding panel(s) 'X' sliding along wall.
- 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 1/4 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. Drive belt to be steel reinforced nylon, 1" (25.4 mm) wide. Idler pulley to be reinforced, metallic material.
  2. Microprocessor-based control shall include a 40 character alphanumeric display to provide ease of adjustment and comprehensive diagnostics, including error and alarm logging. All speeds, forces and time delays shall be independently adjustable. Actuating and safety sensors that provide self-monitoring are supported. Supported operating modes include 2-Way Automatic / 1-Way Exit, Full / Reduced Door Opening, and Day / Night Operation.
  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. Uninterrupted Power Supply (UPS) Battery Backup:
    - a. Power Fail Open: If power fails the door slides open.
    - b. Power Fail Close: If power fails the door slides closed.



® 4242 Baldwin Boulevard  
Corpus Christi, Texas  
USA 78405-3399  
Tel: 800-531-3111, 361-888-5591  
Fax: 800-531-3108, 361-888-6510  
**www.hortondoors.com**  
*The Automatic Choice*

## ARCHITECTURAL SPECS

### AUTOMATIC SLIDING DOORS

**HD-Slide® Series 2001-LL** **A24.3**  
**Lead Lined Heavy Duty Sliding Door System**  
**with Electric Belt Drive Operator**  
Page 3 of 4, May 18

- 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. SLIDING PANEL(S): Shall be aluminum, 1-3/4" (44 mm) deep medium stile rails with a structural core of resin impregnated Kraft honeycomb. Panels will be provided with 1/16" factory lead-lining, vinyl weatherstripping, nylon sweeps, and clad on all sides with #4 brushed stainless steel or 18ga. galvanized steel. Sliding panels shall have concealed bottom guides to stabilize slide travel.  
Optional Vision Lite: 7/16" leaded glass glazing with maximum size of 15 3/4" x 15 3/4" (400 mm x 400 mm).
- G. JAMBS/FRAME: Shall be aluminum, 1-3/4" (44mm) deep by 4" (102mm) wide.

### 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. Touchless Wall-Mounted Manual Switch (Optional Jamb-Mounted): using diffused scanning technology with adjustable range up to 15" (381 mm). This device activation zone adjustable to comply with ANSI 156.10 Knowing Act Standard.
  2. Push Plate Wall-Mounted Manual Switch: Momentary contact switch, 6-1/4" (159 mm) dia. stainless steel plate attaches to standard junction box. Complies with ANSI 156.10 Knowing Act Standard.
  3. Motion Sensor (Optional Feature): Mounted above opening on header or wall.
- B. THRESHOLD PRESENCE SENSORS:
1. Header mounted sensors shall provide active infrared presence detection on each side of the door unit and shall remain active throughout the entire door opening and closing cycle.
  2. Hold-open beams: Two pulsed infrared photoelectric beams to be mounted in vertical interlock channels. Sender/receiver arrangement parallels door opening.

### 2.04 RELATED WORK REQUIREMENTS

- A. ELECTRICAL: 120 VAC, 50/60 cycle, single phase, dedicated 20 amp circuit per operator. Non-North American voltages can be 240 VAC 50/60 cycle (operator must have 240 volt power supply).
- B. GLASS AND GLAZING: Glass stops, glazing vinyl and setting blocks for field glazing as per Safety Glazing standard ANSI Z97.1.2. Contractor to coordinate acquisition of glass in thickness and type in accordance with manufacturer's recommendations for prescribed design.

### 2.05 MATERIALS, FINISHES AND FABRICATION

- A. EXTRUDED ALUMINUM: ASTM B221, 6063-T5 alloy and temper, anodized:
1. Structural Header Sections: Minimum 3/16" (5 mm) thickness.
  2. Structural Frame Sections: Minimum 1/8" (3 mm) thickness.
  3. Structural Panel Sections: Commercial grade.
- B. FINISHES: Shall be one of the following:
1. Header, frame and slide panel clad with stainless steel #4 brushed finish.
  2. a. Header in Clear Anodized Aluminum: Arch. Class 2 Clear Coating, AA-MI2C22A31.  
b. Slide panel and frame in 18ga. galvanized steel.



® 4242 Baldwin Boulevard  
Corpus Christi, Texas  
USA 78405-3399  
Tel: 800-531-3111, 361-888-5591  
Fax: 800-531-3108, 361-888-6510  
[www.hortondoors.com](http://www.hortondoors.com)  
*The Automatic Choice*

## ARCHITECTURAL SPECS

### AUTOMATIC SLIDING DOORS

**HD-Slide® Series 2001-LL**

**A24.4**

**Lead Lined Heavy Duty Sliding Door System  
with Electric Belt Drive Operator**

Page 4 of 4, May 18

3. Header, frame and slide panel clad in 18ga. galvanized steel.

#### C. PANEL CONSTRUCTION:

1. Corner block type with 3/16" steel backup plate construction, mechanically secured with minimum of four hardened steel screws. Sash consists of snap-in glass stops, snap-in glazing beads and vinyl gaskets.

D. FRAME CONSTRUCTION: Butt joints, mechanically secured with screws and formed aluminum corner brackets.

E. OPERATOR CONSTRUCTION: Electromechanical, modular type construction.

### PART III - EXECUTION

#### 3.01 EXAMINATION

**SITE VERIFICATION OF CONDITIONS:** Installer must verify that base conditions previously installed under other sections 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 in a manner acceptable to the installer and manufacturer.

#### 3.02 INSTALLATION

A. **GENERAL:** Installer shall be factory trained, certified by AAADM, and experienced to perform work of this section. Install door units plumb, level and true to line, without warp or rack of frames or sash with manufacturer's prescribed tolerances. Provide support and anchor in place.

B. **DISSIMILAR MATERIALS:** Comply with AAMA 101, Appendix Dissimilar Materials by separating aluminum materials and other corrodible surfaces from sources of corrosion or electrolytic action contact points.

C. **ELECTRICAL:** General or electrical contractor to install all wiring to operator on a separate circuit breaker routed into header, as well as, install all required power and low voltage wiring.

#### 3.03 CLEANING, ADJUSTMENT AND PROTECTION

A. **CLEANING:** After installation, installer to take following steps:

1. Remove construction debris from construction site and legally dispose of debris.
2. Repair or replace damaged installed products.
3. Clean product surfaces and lubricate operating equipment for optimum condition and safety.

B. **ADJUSTMENT:** AAADM certified technician to inspect and adjust installation.

C. **ADVISE CONTRACTOR:** Of precautions required through the remainder of the construction period, to ensure that doors will be without damage or deterioration (other than normal weathering) at the time of acceptance.

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

### END OF SECTION