



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 ENTRANCES – BLAST RATED

**ProSlide™-Blast Series**  
**UFC 4-010-01 Steel Reinforced Sliding Blast Door**

**AB2.0**

June 17

#### DIVISION 08 - OPENINGS

#### SECTION 08 42 29.23 SLIDING AUTOMATIC ENTRANCES – BLAST RATED

*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 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. Thermal and Moisture Protection: Division 07, applicable sections.
  - 5. Openings: Division 08, applicable sections.
  - 6. 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):
  - 1. ANSI Z97.1: Safety Glazing Materials Used in Buildings - Methods of Test.
  - 2. ANSI A156.10 - 2011: For Power Operated Pedestrian Doors; Sliding Doors section.
- D. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):
  - 1. ASTM B221: Aluminum-Alloy Extruded Bars, Rods, Shapes and Tubes.
  - 2. ASTM F2248: Standard Practice for Specifying an Equivalent 3-Second Duration Design Loading for Blast Resistant Glazing Fabricated with Laminated Glass
- E. THE ALUMINUM ASSOCIATION (AA) Aluminum Finishes Manual.
- F. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 101: Code for Safety to Life from Fire in Buildings & Structures.
- G. UNDERWRITERS LABORATORY, INC.(USA & CANADA) UL 325: Electrical Door, Drapery, Gate, Louver, and Window Operators and Systems.
- H. UNIFIED FACILITIES CRITERIA (UFC)
  - 1. UFC 4-010-01: DoD Minimum Antiterrorism Standards for Buildings

##### 1.03 SUBMITTALS

- A. PRODUCT DATA: Submit manufacturer's complete product and installation data.



® 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 ENTRANCES – BLAST RATED

ProSlide™-Blast Series

AB2.1

UFC 4-010-01 Steel Reinforced Sliding Blast Door

June 17

- B. COMPLIANCE: Submit Engineering Testing compliance letter for UFC 4-010-01 and ASTM F2248 for blast resistance.
- C. QUALITY ASSURANCE AND CLOSEOUT SUBMITTALS: Submit the following:
1. Manufacturer's Operation and Maintenance Data.
  2. Warranty document as specified herein.
  3. AAADM inspection compliance form completed and signed by certified AAADM inspector prior to doors being placed in operation as proof of compliance with ANSI A156.10 - 2011.

#### 1.04 QUALITY ASSURANCE

- 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.
- 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 heavy duty operator, header and track, jambs, sliding door panel(s), and sidelite(s). Units shall be Type 010: Slide panel(s) 'X' slides along interior side of fixed sidelite(s) 'O'. Units will be either single-slide or bipart and will be perimeter mounted within rough opening.



® 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 ENTRANCES – BLAST RATED

ProSlide™-Blast Series

AB2.2

UFC 4-010-01 Steel Reinforced Sliding Blast Door

June 17

- B. OPERATOR: The Electric Operating Mechanism shall be ProSlide™ Series 2003 Belt Drive. The operator shall be mounted and concealed within the steel reinforced 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. Microprocessor Master Control shall have Version 10 software and have dual on-board seven-segment diagnostic display. The control shall have minimum of 28 programmable parameters including those functions required by ANSI A156.10 - 2011. Control shall include separate day and night modes of operation with security over-ride. Adjustable Reversing Circuit will reopen door unit if closing path is obstructed. Maximum force required to prevent sliding panel from closing = 28 lbf.
  3. Finger Safety: When unit slides open, strike rail of sliding panel will stop short of adjacent sidelite; resulting opening is net slide.
  4. 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 (fail-safe): Automatically locks slide function of door when in closed position.
    - a. Exterior activation sensor unlocks door system and opens doors.
    - b. Interior activation sensor remains active at all times for routine activation and to enable free egress.
    - c. If power fails the automatic 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. PROSLIDE™ HEADER: Shall be steel reinforced 6" (152 mm) deep by 6" (152 mm) high aluminum construction with removable face plate for service and adjustment of operator and controls
- E. DOOR ROLLERS: Shall be polymer and replaceable. Rollers will be non-metallic, high quality ball bearing wheels 2" (51 mm) diameter. Anti-Derailing shall be accomplished by means of a separate adjustable roller.
- F. SLIDING PANEL(S) AND SIDELITE(S): Shall be aluminum, 1-3/4" (44 mm) deep with medium stile rails. Bottom rail shall be 6 1/2" (165 mm) tall. Weather-stripping to be along perimeter of sliding panel(s) and sidelite(s). Concealed guides to stabilize bottom of sliding panel. All vertical rails shall be steel reinforced for UFC 4-010-01 compliance. Interior heavy duty glass stops to be fixed.
1. Total weight limit per panel shall be 500 lbs (227 kg) for non-breakout single slide and 300 lbs (136 kg) for non-breakout bipart
  2. Standard glazing prep shall be 9/16" laminated glass: 1/4" heat strengthened (2 layers); 0.075 Solutia Vanceva composite layer. Wet glazed with Dow Corning #995
- G. EMERGENCY EGRESS: Comply with requirements of authorities having jurisdiction for automatic doors serving as a required means of egress. Unit is designed for blast resistance requiring that active panels slide only and not breakout. Opening force: If power fails not more than 50 lbf (222 N) manual force required to set door in motion and not more than 15 lbf (67 N) to slide to minimum clear walk-thru width
- H. JAMBS/FRAME: Shall be aluminum. Jamb dimensions to be: 2" (51mm) deep by 6" (152mm) wide.
- I. THRESHOLD: Shall be aluminum, 1/2" (25 mm) tall by 7" (178 mm) wide.
- J. HARDWARE: Provided and installed in strike rail shall be:
1. 5/8" Hook-bolt Lock latching into jamb or adjacent strike rail.



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 ENTRANCES – BLAST RATED

**ProSlide™-Blast Series**  
**UFC 4-010-01 Steel Reinforced Sliding Blast Door**

**AB2.3**

June 17

2. Maximum Security Lock with 31/32" (25 mm) backset.
3. Keyed Cylinder mounted on exterior side with 1 5/32" (29 mm) standard size cylinder.
4. Thumb-turn mounted on interior side.
5. 3/8" Lock-bolt into carrier frame and threshold.
6. Hardware Options:
  - a. Lock Indicator.
  - b. Cylinder Guard.
  - c. Cylinder Escutcheon.

### 2.03 RELATED EQUIPMENT

**BASIC SENSOR SYSTEM:** Shall be 24 VDC, class II circuit and shall be adjusted and installed in compliance with ANSI A156.10. System shall include the following:

- A. **ACTIVATION SENSORS:** Microwave or active infrared sensor shall be header-mounted each side of door unit for detection of traffic from each direction.
- 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 rails of sidelite or in jambs. 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. Glass shall be in compliance with ASTM F2248. 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: Minimum 1/8" (3 mm) thickness.
- B. **FINISHES** (for all exposed aluminum surfaces): Shall be one of the following:
  1. 204-R1 Clear: Arch. Class 2 Clear Anodized Coating, AA-MI2C22A31.
  2. 313-R1 Dark Bronze: Arch. Class 1 Anodized Coating, AA-MI2C22A44.
  3. 312-R1 Light Bronze: Arch. Class 1 Anodized Coating, AA-MI2C22A44.
  4. 315-R1 Black: Arch. Class 1 Anodized Coating, AA-MI2C22A44.
  5. Special Paint Coating: Color as selected.
  6. Clad with stainless steel or muntz metal (brass alloy): #7 mirror finish or #4 brushed finish.
- C. **PANEL CONSTRUCTION:**
  1. Corner block type with 3/16" steel backup plate construction, mechanically secured with minimum of four hardened steel screws. All vertical rails to have reinforcing tube full length of vertical rail. Sash consists of snap-in glass stops, snap-in glazing beads and vinyl gaskets.



® 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 ENTRANCES – BLAST RATED

**ProSlide™-Blast Series**  
**UFC 4-010-01 Steel Reinforced Sliding Blast Door**

**AB2.4**

June 17

2. Weatherstripping material captured in extruded aluminum door panel. Door nosing weatherstrip to be spring-loaded adjustable astragal type. Surface applied self-adhesive weatherstripping not acceptable.
3. Slide doors to be supplied with adjustable glass setting block to allow for adjusting of door to meet site conditions eliminating the need for additional shims.

### 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 with manufacturer's prescribed tolerances. Shims to resist rotation of frame. Provide support and anchor in place as indicated on manufacturer approved drawings.
- 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. **WEATHER-TIGHT CONSTRUCTION:** Install header and framing members in a bed of sealant or with joint filler or gaskets. Coordinate installation with wall flashings and other components of construction.
- D. **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

- A. **CLEANING:** After installation, installer to take following steps:
  1. Remove temporary coverings and protection of adjacent work areas.
  2. Remove construction debris from construction site and legally dispose of debris.
  3. Repair or replace damaged installed products.
  4. Clean product surfaces and lubricate operating equipment for optimum condition and safety.
- B. **ADJUSTMENT:** AAADM certified technician shall inspect and adjust installation to assure compliance with ANSI A156.10 - 2011.
- 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**