



® 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

MANUAL SLIDE DOORS - ICU/CCU

Profiler-ICU® Self-Closing
Intensive Care Unit, Patient Access

A20.0

Sept 09

DIVISION 08 - OPENINGS

SECTION 08 42 43 – INTENSIVE CARE UNITS / CRITICAL CARE UNIT 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 intensive care 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.
 - 4. Openings: Division 08, applicable sections.

1.02 REFERENCES

- A. AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA) 101: Appendix Dissimilar Materials.
- B. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI): ANSI Z97.1: Safety Glazing Materials Used in Buildings - Methods of Test.
- C. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) B221: Aluminum-Alloy Extruded Bars, Rods, Shapes and Tubes.
- D. 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).
- C. QUALITY ASSURANCE AND CLOSEOUT SUBMITTALS: Submit the following:
 - 1. Manufacturer's Operation and Maintenance Data.
 - 2. Warranty document as specified herein.

1.04 QUALITY ASSURANCE

- A. INSTALLERS QUALIFICATIONS: Installer experienced (as determined by contractor) to perform work of this section who has specialized in the installation of work similar to that required for this project and who is acceptable to product manufacturer.



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B. MANUFACTURER'S QUALIFICATIONS: Manufacturer to have minimum (5) five years successful experience in the fabrication of intensive care 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: 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 intensive care sliding door(s) of type(s) and size(s) specified on plans and door schedule.

2.02 EQUIPMENT

- A. MANUFACTURED DOOR UNITS: Shall include header with track, jambs, sliding door panel(s), and sidelite(s). Units to be mounted within rough opening with sliding panel sliding along sidelite. Units will be single-slide and will be one of the following unit types:
1. Type 110: Slide-swing panel shall slide along exterior side.
 2. Type 310: Slide-swing panel shall slide along interior side. Swing-out sidelite.
 3. Type 310 Trackless: Slide-Swing panel(s) shall slide along interior side. Swing-out sidelite (door must be in full open position). No floor track or recess required.
- B. PROFILER® HEADER: Shall be slim 4" (102mm) deep by 6" (152mm) high aluminum construction with extruded z-profile reinforcement for dead load and lateral strength. Header shall have removable face plate.
- C. SELF-CLOSING MECHANISM: Shall be mechanical requiring no electrical power and shall be fully concealed within header. Coiled spring under tension attached to sliding door shall work with hydraulic damper to provide adjustable 6-8 lbs of closing force. Manual opening force shall not exceed 12 lbs.

Hold-Open:

1. Shall be engaged when 8-12 lbs. of force is applied to door panel in full open position.
2. Shall be disengaged when 6-8 lbs. of force is applied to door panel.



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- C. **HEADER TRACK:** Shall be aluminum, nylon covered and replaceable. Rollers will be steel, high quality ball bearing wheels 1-1/4" (32 mm) diameter. Anti-Derailing shall be accomplished by means of a continuous aluminum extrusion full length of slide panel travel.
- D. **SLIDING PANEL AND SIDELITE:** Shall be aluminum, 1-3/4" (44 mm) deep with narrow stile construction. Weather-stripping to be along vertical rails of sliding panel(s) and swing-out sidelite(s). Concealed guides to stabilize bottom of sliding panel. Standard glazing prep to be for 1/4" (6 mm) glass.
1. Total weight limit per panel shall be:
 - a. 200 lbs. (90.7 kg) for slide panel (non-breakout)
 - b. 156 lbs. (70.7 kg) for UL listed slide-swing panel
 2. Sliding Panel and Sidelite Options shall be:
 - a. Medium and wide stiles.
 - b. Recessed sidelite and track and non-threshold application.
 - c. Horizontal muntin(s) of size and type indicated.
 - d. Prep for glazing 5/16" (16 mm) to 1" (25 mm).
- E. **BREAKOUT FEATURE:** Slide-swing panels must swing out 90° from any position of slide movement after positive latching is released) and require no more than 50 lbf. (222 N) of force applied at the strike stile to open. Exception: Type 310 Trackless (after positive latching and flush bolt are released) - door must be in full open position before panels can swing out.
1. Breakout mechanism shall provide support across full width of the door, in normal operating mode. In breakout mode, torsion assembly shall support weight of the door to minimize drop.
 2. Slide-swing panels shall include intermediate horizontal rail.
- F. **JAMBS/FRAME:** Shall be aluminum, 1 3/4" (44 mm) deep by 4" (102 mm) wide.
- G. **HARDWARE:** Positive latching shall be provided as follows:
1. Type 110: The slide-swing panel shall be provided with positive latch that will latch this panel in place when closed. A lever handle shall be provided on each side of the sliding panel to unlock the door.
 2. Type 310: The slide-swing panel shall be provided with positive latch that will latch this panel in place when closed. A lever handle shall be provided on each side of the sliding panel to unlock the door. The swing-out sidelite shall include a flush bolt to lock it in place.
 - a. Exception: Trackless units shall include a flush bolt to lock the swing-out sidelite in place.
 3. Option: A recessed pull shall be provided on each side of the sliding panel. No locks shall be provided.

2.03 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** (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 or #4 brushed finish.
- C. **PANEL CONSTRUCTION:**



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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.
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-swing 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.

D. FRAME CONSTRUCTION: Butt joints, mechanically secured by means of screws & formed aluminum brackets.

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:** 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. **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.

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. **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.

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

END OF SECTION