

SECTION 08 42 43
INTENSIVE CARE UNIT/CRITICAL CARE UNIT ENTRANCES

Specifier Note: This specification document shall serve as a guide specification for typical projects where the Stanley Access Technologies ProCare 8300A Clean Room Series automatic ICU/CCU entrance will be the basis of design. Specification must be reviewed for applicability on a per project basis. The specifier is directed to select appropriate options included herein. Consult with the local Access Technologies Territory Manager, when options, not specified, are required. See last page of this document for a summary of unspecified options.

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following types of intensive care unit/critical care unit (ICU/CCU) entrances:
1. Interior, single slide, automatic sliding ICU/CCU entrances; trackless.
 2. Entrances shall be rated as an effective barrier limiting the passage of smoke.
 3. Entrances shall be leakage rated, designed and tested for use in airborne infection isolation rooms.
 4. Entrances shall be certified for use in clean rooms.
- B. Related Sections:
1. Division 7 Sections for caulking to the extent not specified in this section.
 2. Division 8 Section "Door Hardware" for hardware to the extent not specified in this Section.
 3. Division 8 Section Glazing for materials and installation requirements of glazing for ICU/CCU entrances.
 4. Division 26 Sections for electrical connections provided separately, including conduit and wiring, for power to automatic sliding ICU/CCU entrances.

1.3 REFERENCES

- A. General: Standards listed by reference, including revisions by issuing authority, form a part of this specification section to extent indicated. Standards listed are identified by issuing authority, authority abbreviation, designation number, title or other designation established by issuing authority. Standards subsequently referenced herein are referred to by issuing authority abbreviation and standard designation.

Specifier Note: Select appropriate option to suit project requirements. Coordinate with other sections throughout.

- For "Full Energy", fast moving door solutions, retain reference to ANSI/BHMA A156.10 below and retain "Combined Activation and Safety Sensors" in Part 2.
- For "Low Energy", slow moving door solutions, retain reference to ANSI/BHMA A156.38 below and delete "Combined Activation and Safety Sensors" in Part 2.

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- B. American National Standards Institute (ANSI) / Builders' Hardware Manufacturers Association (BHMA):
 - 1. ANSI A117.1: Accessible and Usable Buildings and Facilities
 - 2. **[ANSI/BHMA A156.10: Standard for Power Operated Pedestrian Doors.]**
 - 3. **[ANSI/BHMA A156.38: Standard for Low Energy Power Operated Sliding and Folding Doors.]**
 - C. American Society for Testing and Materials (ASTM):
 - 1. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
 - 2. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate
 - D. American Association of Automatic Door Manufacturers (AAADM):
 - E. International Organization for Standardization (ISO):
 - 1. ISO 9001 - Quality Management Systems
 - 2. ISO 14644-1 – Cleanrooms and Associated Controlled Environments — Part 1: Classification Of Air Cleanliness By Particle Concentration
 - F. National Fire Protection Association (NFPA):
 - 1. NFPA 70 – National Electric Code.
 - 2. NFPA 105 – Standard for the Installation of Smoke Door Assemblies
 - G. National Association of Architectural Metal Manufacturers (NAAMM):
 - 1. Metal Finishes Manual for Architectural and Metal Products.
 - H. American Architectural Manufacturers Association (AAMA):
 - 1. AAMA 607.1 - Clear Anodic Finishes for Architectural Aluminum.
 - 2. AAMA 701 Voluntary Specification for Pile Weatherstripping and Replaceable Fenestration Weatherseals.
 - I. Underwriters Laboratories UL:
 - 1. UL 325 – Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems.
 - 2. UL 1784 – Air Leakage Tests for Door Assemblies
- 1.4 DEFINITIONS
- A. Activation Device: Device that, when actuated, sends an electrical signal to the door operator to open the door.
 - B. Knowing act: Consciously initiating the opening of a power operated door using acceptable methods including wall mounted switches such as push plates and controlled access devices such as keypads, card readers and key switches.
 - C. Safety Device: Device that prevents a door from opening or closing, as appropriate.
- 1.5 PERFORMANCE REQUIREMENTS
- A. General: Provide ICU/CCU entrances capable of withstanding structural loads and thermal movements based on testing manufacturer's standard units in assemblies similar to those

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indicated for this Project.

- B. Operating Range: Minus 30 deg F (Minus 34 deg C) to 130 deg F (54 deg C).
- C. Smoke and Draft Control: Provide smoke and draft control system on ICU/CCU entrances. Smoke and draft control system shall provide an effective barrier for limiting the passage of smoke. Smoke and draft control system shall comply with the following:
1. Air Leakage Rates: The maximum air leakage rate for ICU/CCU entrances shall be as follows:
 - a. Tested without artificial bottom seal, at 0.10 in water column (25 Pa), leakage shall be less than 2.5 ft³/min/ft² (0.8 m³/min/m²) of framed opening at ambient temperature; and, less than 1.0 ft³/min/ft² (0.3 m³/min/m²) of framed opening at elevated temperature.
 - b. Tested with artificial bottom seal, at 0.30 in water column (75 Pa), leakage shall be less than 2.0 ft³/min/ft² (0.6 m³/min/m²) of framed opening at ambient temperature; and, less than 1.0 ft³/min/ft² (0.3 m³/min/m²) of framed opening at elevated temperature.
 2. Door shall be tested in accordance UL 1784.
 3. Installation shall be in accordance with NFPA 105.
- D. Sliding automatic entrances shall be certified for installation and operation in Class 4.5 clean rooms under ISO 14644-1.

Specifier Note: Select appropriate option to suit project requirements. Coordinate with other sections.

- For "Full Energy", fast moving door solutions, retain 30 lbf (133 N).
- For "Low Energy", slow moving door solutions, retain 15 lbf (67 N).

- E. Closing-Force Requirements: Not more than **[30 lbf (133 N)] [15 lbf (67 N)]** required to prevent door from closing.

Specifier Note: Select appropriate option to suit project requirements. Coordinate with other sections.

- For "Full Energy", fast moving door solutions, retain.
- For "Low Energy", slow moving door solutions, delete.

- F. [Sliding automatic entrances specified with automatic latching shall be designed to function as follows when set for automatic operation:
1. Entrances shall be normally closed and latched by automatic latching system with motion activation system disabled.
 2. Upon signal from knowing act activation device, sliding automatic entrances will unlatch and open enabling motion activation system. Entrance will be held open as long as a pedestrian remains in the activation or safety zones.
 3. Once all activation and safety zones have cleared the entrance will close and re-latch, returning to normal state.]

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1.6 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of the Contract and Division 1 Specification Sections.
- B. Shop Drawings: Include plans, elevations, sections, details, hardware mounting heights, and attachments to other work.
- C. Color Samples for selection of factory-applied color finishes.
- D. Closeout Submittals:
 - 1. Owner's Manual.
 - 2. Warranties.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative, with certificate issued by AAADM, who is trained for installation and maintenance of units required for this Project.
- B. Manufacturer Qualifications: A qualified manufacturer with a manufacturing facility certified under ISO 9001.
- C. Manufacturer shall have in place a national service dispatch center providing 24 hours a day, 7 days a week, emergency call back service.

Specifier Note: Select appropriate option to suit project requirements. Coordinate with other sections.

- For "Full Energy", fast moving door solutions, retain ANSI/BHMA A156.10.
- For "Low Energy", slow moving door solutions, retain ANSI/BHMA A156.38.

- D. Certifications: Automatic ICU/CCU sliding door systems shall be certified by the manufacturer to meet performance design criteria in accordance with:
 - 1. [ANSI/BHMA A156.10] [ANSI/BHMA A156.38].
 - 2. UL 325
 - 3. UL 1784
 - 4. NFPA 105
 - 5. ISO 14644-1, Class 4.5.
- E. Source Limitations: Obtain ICU/CCU entrances through one source from a single manufacturer.
- F. Product Options: Drawings indicate sizes, profiles, and dimensional requirements of ICU/CCU entrances and are based on the specific system indicated. Refer to Division 1 Section "Product Requirements."
- G. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

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1.8 PROJECT CONDITIONS

- A. Field Measurements: General Contractor shall verify openings to receive ICU/CCU entrances by field measurements before fabrication and indicate measurements on Shop Drawings.
- B. Mounting Surfaces: General Contractor shall verify all surfaces to be plumb, straight and secure; substrates to be of proper dimension and material.
- C. Other trades: General Contract shall advise of any inadequate conditions or equipment.

1.9 COORDINATION

- A. Templates: Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing ICU/CCU entrances to comply with indicated requirements.
- B. Electrical System Roughing-in: Coordinate layout and installation of automatic entrance door assemblies with connections to power supplies.

1.10 WARRANTY

- A. ICU/CCU entrances shall be free of defects in material and workmanship for a period of one (1) year from the date of substantial completion.
- B. During the warranty period the Owner shall engage a factory-trained technician to perform service and affect repairs. A safety inspection shall be performed after each adjustment or repair and a completed inspection form shall be submitted to the Owner.
- C. During the warranty period all warranty work, including but not limited to emergency service, shall be performed during normal working hours.

PART 2 - PRODUCTS

2.1 ICU/CCU ENTRANCES

- A. Manufacturer: Stanley Access Technologies; ProCare™ 8300A Series automatic sliding ICU/CCU entrances.

2.2 MATERIALS

- A. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
 - 1. Headers, stiles, rails, and frames 6063-T6
 - 2. Extruded Bars, Rods, Profiles, and Tubes: ASTM B 221.
 - 3. Sheet and Plate: ASTM B 209.
- B. Sealants and Joint Fillers: Performed under Division 7 Section "Joint Sealants".

2.3 ICU/CCU ENTRANCE ASSEMBLIES

- A. General: Provide manufacturer's standard ICU/CCU entrance assemblies including doors, sidelights, framing, headers, carrier assemblies, roller tracks, pivots, and accessories required

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for a complete installation.

B. ICU/CCU Entrances:

1. Configuration: One sliding panel and one full sidelight; single slide.
2. Traffic Pattern: Two-way providing 43 1/4 inch (1099 mm) clear sliding opening with an overall frame width of 96 inch (2438 mm).
3. Breakaway Capability: Sliding panels and sidelights, from fully open position.
4. Mounting: Between jambs.
5. Track: None, trackless.

2.4 COMPONENTS

- A. Framing Members: Manufacturer's standard extruded aluminum reinforced as required to support imposed loads. Nominal size shall be 1 3/4 inch by 4 1/2 inch (44 mm by 115 mm).

Specifier Note: Modify paragraph below to suit project requirements.

- **Select "Bottom Rail Design"; 4 inch is standard.**
- **Select "Muntin Bars"; 2 inch is standard.**

- B. Stile and Rail Doors and Sidelights: Manufacturer's standard 1 3/4 inch (45 mm) thick glazed doors with extruded-aluminum tubular stile and rail members. Incorporate concealed tie-rods that span full length of top and bottom rails.
1. Glazing Stops and Gaskets: Snap-on, extruded-security aluminum stops and preformed gaskets.
 2. Stile Design: Narrow stile; up to 2 1/8 inch (54 mm) nominal width.
 3. Bottom Rail Design: Minimum **[4 inch (102 mm)] [6 inch (152 mm)] [8 inch (203 mm)] [10 inch (254 mm)] [12 inch (305 mm)]** nominal height.
 4. Muntin Bars: **[None.] [Horizontal tubular rail member for each door; 2 inch (51 mm)] [4 1/4 inch (108 mm)] nominal height.**

Specifier Note: Modify paragraph below to suit project requirements. 1/4 inch Tempered glass is standard; privacy glazing with integral blinds is optional. Confirm total thickness of privacy glazing from supplier prior to specifying.

- C. Glazing: Furnished under Division 8 Section Glazing. All Glazing furnished under separate section shall be **[1/4 inch (6 mm) tempered] [privacy glazing, 1 inch (25 mm)] [1 1/4 inch (32 mm)] insulated with integral blinds**.
- D. Headers: Fabricated from extruded aluminum and extending full width of automatic entrance door units to conceal door operators, carrier assemblies, and roller tracks. Provide hinged or removable access panels for service and adjustment of door operators and controls. Secure panels to prevent unauthorized access.
1. Mounting: Concealed, with one side of header flush with framing.
 2. Capacity: Capable of supporting up to 220 lb (100 kg) per panel, up to four panels, over spans up to 14 feet (4.3 m) without intermediate supports.
- E. Carrier Assemblies and Overhead Roller Tracks: Manufacturer's standard carrier assembly that allows vertical adjustment of at least 1/8 inch (3 mm); consisting of urethane with precision steel lubricated ball-bearing wheels, operating on a continuous roller track. Support panels from carrier assembly by load wheels and anti-rise mechanism with factory adjusted cantilever and

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pivot assembly. Minimum two ball-bearing load wheels for each active leaf. Minimum load wheel diameter shall be 2 1/2 inch (64 mm).

- F. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, non-staining, non-bleeding fasteners and accessories compatible with adjacent materials.

2.5 DOOR OPERATORS

- A. General: Provide door operators of size recommended by manufacturer for door size, weight, and movement; for condition of exposure; and for long-term, operation under normal traffic load for type of occupancy indicated.
- B. Electromechanical Operators: Self-contained overhead unit powered by a minimum of 1/4 horsepower, permanent-magnet DC motor with gear reduction drive, microprocessor controller; and encoder.
 - 1. Operation: Power opening and power closing.
 - 2. Features:
 - a. Adjustable opening and closing speeds.
 - b. Adjustable open check and close check speeds.
 - c. Adjustable hold-open time between 0 and 30 seconds.
 - d. Obstruction recycle.
 - e. On/Off switch to control electric power to operator.
 - f. Energy conservation switch that reduces door-opening width.
 - g. Closed loop speed control with active braking and acceleration.
 - h. Adjustable obstruction recycle time delay.
 - i. Self-adjusting stop position.
 - j. Self-adjusting closing compression force.
 - k. Onboard sensor power supply.
 - l. Onboard sensor monitoring.
 - m. Optional Switch to open/Switch to close operation.
 - n. Fire alarm interface, configurable to safely open or close the entrance on signal from fire alarm system.
 - o. Adjustable power assist function for manual use; reducing the force required to manually open the entrance.
 - 3. Mounting: Concealed.
 - 4. Drive System: Synchronous belt type.
- C. Electrical service to door operators shall be provided under Division 26 Electrical. Minimum service to be 120 VAC, 5 amps.

2.6 ELECTRICAL CONTROLS

- A. Electrical Control System: Electrical control system shall include a microprocessor controller and a high-resolution position encoder. The encoder shall monitor revolutions of the operator shaft and send signals to microprocessor controller to define door position and speed.
 - 1. The high-resolution encoder shall have a resolution of not less than 1024 counts per revolution. Systems utilizing external magnets and magnetic switches are not acceptable.
 - 2. Electrical control system shall include a 24 VDC auxiliary output rated at 1 amp.
- B. Performance Data: The microprocessor shall collect, and store performance data as follows:
 - 1. Counter: A non-resettable counter to track operating cycles.

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2. Event Reporting: Unit shall include non-volatile event and error recording including number of occurrences of events and errors, and cycle count of most recent events and errors.
 3. LED Display: Display presenting the current operating state of the controller.
- C. Controller Protection: The microprocessor controller shall incorporate the following features to ensure trouble free operation:
1. Automatic Reset Upon Power Up.
 2. Main Fuse Protection.
 3. Electronic Surge Protection.
 4. Internal Power Supply Protection.
 5. Resettable sensor supply fuse protection.
 6. Motor Protection, over-current protection.
- D. Soft Start/Stop: A “soft-start” “soft-stop” motor driving circuit shall be provided for smooth normal opening and recycling.
- E. Obstruction Recycle: Provide system to recycle the sliding panels when an obstruction is encountered during the closing cycle. If an obstruction is detected, the system shall search for that object on the next closing cycle by reducing door closing speed prior to the previously encountered obstruction location, and will continue to close in check speed until doors are fully closed, at which time the doors will reset to normal speed. If obstruction is encountered again, the door will come to a full stop. The doors shall remain stopped until obstruction is removed and operate signal is given, resetting the door to normal operation.
- F. Programmable Controller: Microprocessor controller shall be field programmable.
1. The following parameters may be adjusted:
 - a. Operating speeds and forces as required to meet specified ANSI/BHMA standard.
 - b. Adjustable and variable features specified.
 - c. Reduced opening position.
 2. Manual programming shall be available through local interface which has a two-digit display with a selection control including three push buttons.

2.7 ACTIVATION AND SAFETY DEVICES

- A. Touchless Activation Switch: Where scheduled, provide touchless activation switches for primary activation of automatic sliding ICU/CCU entrances. Face plates shall be high impact polycarbonate, engraved with waving hand logo and “Wave To Open” text.
1. Switches shall be jamb style, 1 3/4 inch by 4 1/2 inch (44 mm x 114 mm), frame mounted hardwired to door operator controls.
 2. Units shall incorporate active infra-red to detect all motion in the detection zone. Detection zone shall be adjustable from 1 inch to 28 inch (25 mm to 711 mm).
 3. Relay shall be rated at 3 A at 30 VAC/VDC.
 4. Relay hold time adjustable from 3 to 30 sec.
 5. Touchless activation switches shall be equal to or better than Camden Door Controls CM-331/41N.

Specifier Note: Select appropriate option to suit project requirements. Coordinate with other sections.

- **For “Full Energy”, fast moving door solutions, retain “Combined Activation and Safety Sensors” and “Presence Sensor Monitoring”.**
- **Delete for “Low Energy”, slow moving door solutions.**

- B. [Combined Activation and Safety Sensors: Combined activation and safety sensors shall, in a single housing, detect motion and presence in accordance with ANSI/BHMA A156.10. Motion shall be detected using K-band microwave technology, presence by active infrared reflection technology.**
- 1. Mounting Height: Up to 11.5 feet (3.5 m) above finish floor**
 - 2. Temperature Range: Between -31°F and 131°F (-35°C to 55°C) in all environmental conditions**
 - 3. Relays: Form C, 50V at 0.3A for both activation and safety. Hold time of less than 0.5 seconds.**
 - 4. Detection Pattern: When detection is made in the activation zone, and the entrance opens, the safety zone shall extend through the threshold on each side; creating an X-pattern. When activation and safety zones are cleared and the entrance closes the sensor will ignore the X-pattern safety zones.**
 - 5. Sensor activation shall be secondary to all knowing act activation.**
 - 6. Combined motion and presence sensors shall be equal to or better than X-Zone Sensor by Optex.**
- C. Presence Sensor Monitoring: Sliding automatic entrances control system shall include a means to verify the functionality of all active presence sensors in accordance with ANSI/BHMA A156.10. A detected fault shall cause automatic operation to cease until the fault is corrected.]**

2.8 HARDWARE

- A. General:** Provide units in sizes and types recommended by ICU/CCU entrance and hardware manufacturers for entrances and uses indicated.
- B. Breakaway Feature:** Provide release hardware that allows sliding panel and sidelight to swing out in direction of egress to full 90 degrees, only from the fully open position.
- 1. Latching system shall allow both panels to swing out after disengaging semi-automatic flush bolt from a single release point.**
 - 2. When returning panels from breakaway position, panels shall self-latch.**
- C. Positive Latch:** Manufacturer's standard non-keyed, spring loaded, latch and strike that can secure sliding door panels to adjacent panels or jambs. Strike shall mount flush to surface of framing. Latch shall engage by closing action of door.
- 1. Dead latch hook bolt shall be concealed to prevent snagging.**
 - 2. Handle shall be circumferential design without exposed edges or open ends.**
 - 3. Handle action shall be linear, unlatching in the direction of slide.**
- D. Automatic Latching System:** Provide automatic latching hardware on sliding automatic entrances as follows:
- 1. System shall include a fail-secure electric strike mounted in the jamb specifically designed for use with the specified positive latch.**
 - 2. The automatic sliding entrance(s) shall electrically latch in the closed position preventing door panels from sliding manually.**
 - 3. During a power interruption the positive latch can be disengaged allowing doors to slide manually.**
- E. Control Switch:** Provide manufacturer's standard jamb mounted two-position rocker switch to allow for full control of the automatic entrance door.

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1. Automatic
2. Manual

- F. Power Switch: Sliding automatic entrances shall be equipped with a two position On/Off rocker switch to control power to the door.
- G. Smoke Seal Components: Provide manufactures standard smoke and draft control components as required to meet performance specifications. Components included but are not limited to:
1. High temperature seals.
 2. Stiles shall be slotted for seal mounting.
- H. Sweeps: Provide manufacturer's standard sweeps for leakage rated entrances providing airborne infection isolation service.

2.9 FABRICATION

- A. General: Factory fabricate ICU/CCU entrance components to designs, sizes, and thickness indicated and to comply with indicated standards.
1. Form aluminum shapes before finishing.
 2. Use concealed fasteners to greatest extent possible.
 - a. Where fasteners are subject to loosening or turning out from thermal and structural movements, wind loads, or vibration, use self-locking devices.
 - b. Reinforce members as required to receive fastener threads.
- B. Framing: Provide ICU/CCU entrances as prefabricated assemblies.
1. Fabricate tubular and channel frame assemblies with manufacturer's standard mechanical or welded joints. Provide sub-frames and reinforcement as required for a complete system to support required loads.
 2. Perform fabrication operations in manner that prevents damage to exposed finish surfaces.
 3. Form profiles that are sharp, straight, and free of defects or deformations.
 4. Prepare components to receive concealed fasteners and anchor and connection devices.
 5. Fabricate components with accurately fitted joints with ends coped or mitered to produce hairline joints free of burrs and distortion.
- C. Doors: Factory fabricated and assembled in profiles indicated. Reinforce as required to support imposed loads and for installing hardware.
- D. Glazing: Fabricate framing with minimum glazing edge clearances for thickness and type of glazing indicated.
- E. Hardware: Factory install hardware to the greatest extent possible; remove only as required for final finishing operation and for delivery to and installation at Project site.

2.10 ALUMINUM FINISHES

- A. General: Comply with NAAMM Metal Finishes Manual for Architectural and Metal Products for recommendations for applying and designing finishes. Finish designations prefixed by AA comply with system established by Aluminum Association for designing finishes.

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- B. Class II, Clear Anodic Finish: AA-M12C22A31 Mechanical Finish: as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class II, clear coating 0.40 mils minimum complying with AAMA 611-98, and the following:
 - 1. AAMA 607.1
 - 2. Applicator must be fully compliant with all applicable environmental regulations and permits, including wastewater and heavy metal discharge.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Examine conditions for compliance with requirements for installation tolerances, header support, and other conditions affecting performance of ICU/CCU entrances. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. General: Do not install damaged components. Fit frame joints to produce joints free of burrs and distortion. Rigidly secure non-movement joints.
- B. Entrances: Install ICU/CCU entrances plumb and true in alignment with established lines and grades without warp or rack of framing members and doors. Anchor securely in place.
 - 1. Install surface-mounted hardware using concealed fasteners to greatest extent possible.
 - 2. Set headers, carrier assemblies, tracks, operating brackets, and guides level and true to location with anchorage for permanent support.
- C. Door Operators: Connect door operators to electrical power distribution system as specified in Division 26 Sections.
- D. Glazing: Performed under Division 8 Section "Glazing" in accordance with ICU/CCU entrance manufacturer's instructions.
- E. Sealants: Comply with requirements specified in Division 7 Section "Joint Sealants".

3.3 FIELD QUALITY CONTROL

- A. Testing Services: Factory Trained Installer shall test and inspect each ICU/CCU entrance to determine compliance of installed systems with applicable standards.

3.4 ADJUSTING

- A. Adjust door operators, controls, and hardware for smooth and safe operation, for tight closure, and complying with requirements in the specified ANSI/BHMA standard.

3.5 CLEANING AND PROTECTION

- A. Clean glass and aluminum surfaces promptly after installation. Remove excess glazing and sealant compounds, dirt, and other substances. Repair damaged finish to match original finish. Comply with requirements in Division 8 Section "Glazing", for cleaning and maintaining glass.

END OF SECTION 08 42 43

Available options not specified in this document are summarized as follows:

1. Activation Options (Touchless activation specified): Any standard knowing act activation switch, including but not limited to, push plates, card readers, etc.
2. Finish (Class 2, Clear Anodized specified) options include:
 - a. Standard color anodizing options.
 - b. Multi-coat Fluoropolymer painted finishes.
3. Rail and muntin options for sliding and fixed door panels.
4. Glazing options (1/4" tempered specified) include:
 - a. Support for installation of privacy glazing with integral blinds up to 1" thick.
 - b. 1 1/4" thick privacy glazing solutions are supported with universal glass stops by privacy glazing manufacturer.
 - c. Electric privacy glass.
5. Locking options (Positive Latch with Electric Strike specified);
 - a. 1-Point lock.
 - i. Standard: Keyed cylinder by Thumb Turn
 - ii. Dummy cylinders optional
 - iii. Lock position indicator optional
 - b. Electric Solenoid Lock (Fail Safe) for secure or interlocked applications.
6. Anti-Microbial coating on "Touch Points" or full package.
7. Package Types Available:
 - a. Smoke & Draft Package, specified.
 - b. Isolation Package (Pressure Control System).
 - c. STC-Rated Package

Contact your local [Stanley Access Technologies](#) representative for more information on specifying the right sliding automatic entrance for your project.

These specifications represent a "sample" door configuration and depict design features that are commonly used. These specifications do not reflect "standard" features and are provided for informational purposes only. Please note that there is no standard "off the shelf" product. Stanley custom manufactures each product to its customers' specifications. It is the customer's responsibility to validate that a particular configuration of Stanley's products is suitable for a specific application. All specifications and designs contained herein are subject to change without notice or obligation.