SECTION 08 42 43 – INTENSIVE CARE/CRITICAL CARE UNIT SLIDING DOORS (ICU/CCU)

PART 1 GENERAL

* + - 1. RELATED DOCUMENTS
         1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
      2. SUMMARY
         1. This section includes the following types of intensive care unit/critical care unit (ICU/CCU) entrance entrances:

Interior, single and bi-parting sliding intensive care unit/ critical care entrances.

* + - * 1. Related Sections:

Division 7 Sections for caulking to the extent not specified in this section.

Division 8 Section “Door Hardware” for hardware to the extent not specified in this section.

Division 08 Section “Glazing” for materials and installation requirements of glazing for intensive care unit/critical care unit (ICU/CCU/ entrance doors.

* + - 1. REFERENCES
         1. General: Refer to the version year adopted by the Authority Having Jurisdiction. (AHJ)
         2. Compliance:

ICC/IBC International Building Code

ANSI/BHMA A 117.1- Accessible and Usable Buildings and Facilities

NFPA 101 Life Safety Code

CUL Approved for use in Canada

* + - 1. PERFORMANCE REQUIRMENTS
         1. General: Provide doors that have been designed and fabricated to comply with specified performance requirements, as demonstrated by testing manufacturers corresponding standard systems.
         2. Intensive care unit/critical care unit (ICU/CCU) door equipment accommodates up to 220 pounds (100kg) weight of doors.
      2. SUBMITTALS
         1. Comply with Division 01 – Submittal Procedures.
         2. Product Data: Manufacturer’s product data sheets including installation details, material descriptions, dimensions of individual components and profiles fabrication, operational descriptions and finishes.
         3. Shop Drawings: For entrances. Include plans, elevations, sections, details, hardware mounting heights, additional accessories and attachments to other work.
         4. Samples: color samples of exposed finish as required.
         5. Informational Submittals: Manufacturers product information and applicable sustainability program credits that are available towards a LEED rated product certification.

Credit MR 4.1 and 4.2: Manufacture’s or fabricator’s certificate indicating percentage of post-consumer recycled content by weight and pre-consumer recycled content by weight for each product specified under this section.

* + - * 1. Test Reports: Submit test reports indicating doors meet the requirements of UL 1784- Air Leakage Test of Door Assemblies.
        2. Operating and Maintenance Manuals: Provide manufacturers operating, owners and maintenance manuals for each item specified as required in Division 01, Closeout Submittals.
      1. QUALITY ASSURANCE
         1. Manufacturer Qualifications: Engage qualified manufacturers with a minimum 10 years of documented experience in manufacturing of doors and equipment of similar to that indicated for this Project and that have a proven record of successful in-service performance.
         2. Installer Qualifications: Installers, trained by the primary product manufacturers, with a minimum 5 years documented experience installing and maintenance of units similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
         3. Source Limitations for intensive care unit/critical care unit (ICU/CCU) entrances: Obtain each type of door, frame, and operator specified in this Section from a single source, same manufacturer unless otherwise indicated
      2. PROJECT CONDITIONS
         1. Field Measurements: Verify actual dimensions of openings to receive intensive care unit/critical care unit (ICU/CCU) entrances by field measurements before fabrication and indicate on shop drawings.
      3. COORDINATION
         1. Coordinate sizes and locations of recesses in concrete floors for recessed sliding tracks that control automatic entrances. Concrete, reinforcement, and formwork requirements are specified in Division 03.
      4. WARRANTY
         1. General Warranty: ICU/CCU Doors shall be free of defects in material and workmanship for a period of One (1) year from the date of substantial completion.
         2. During the warranty period all warranty work, including but not limited to emergency service, shall be performed during normal working hours.

1. PRODUCTS
   * + 1. MANUFACTURER
          1. dormakaba. • Reamstown, PA • 1-844-SPEC-NOW (1-844-773-2669) • Website: [www.dormakaba.us](http://www.dormakaba.us)

Choose the substitution clause applicable for the project select item ‘B” or “C”

* + - * 1. **[Substitutions: Requests for substitution and product approval in compliance with the specification must be submitted in writing and in accordance with the procedures outlined in Division 1, Section “Substitution Procedures”. Approval of requests is at the discretion of the architect, owner, and their designated consultants.]**
        2. **[Substitutions: Not Permitted.]**

Choose type or multiple type of door configurations for the project.

* + - 1. INTENSIVE CARE UNIT/CRITICAL CARE UNIT (ICU/CCU) ENTRANCES
         1. Model: dormakaba **[ICU 200]** Series ICU/CCU Single Slide Door System. (Basis of Design)

Sliding Door Configuration:

Single slide Fixed Sidelite two panel door system.

Configuration: Single slide one sliding leaf and one fixed panel.

Traffic Pattern: Two way.

Breakaway Capability: Exterior sliding leaf only.

Mounting: Overhead header installed between jambs.

Trackless

* + - * 1. Model: dormakaba **[ICU 300]** Series ICU/CCU Single Slide Door System. (Basis of Design)

Sliding Door Configuration:

Single slide full breakout Sidelite two panel door system.

Configuration: Single slide one sliding leaf and one fixed panel.

Traffic Pattern: Two way.

Breakaway Capability: Interior sliding leaf and Sidelite from fully open position.

Mounting: Overhead header installed between jambs.

Trackless

* + - * 1. Dimensions: Confirm door package dimensions as indicated on architectural drawings.

* + - 1. ALUMINUM DOORS AND FRAMES
         1. Doors and Frames: Extruded Aluminum, Alloy 6063-T5

Door panels shall have a minimum .125 inch (3.2 mm) structural wall thickness throughout entire extrusion length.

Vertical Stiles shall be:

Narrow stile: 2-5/8 inch including ¾ inch glass stops

Bottom Rails shall be standard size: 4 inch nominally.

**[Intermediate Muntin shall be 3-¼ inch plus ¾ inch glass stops**

Weather stripping shall meet AAMA 701-11 Class A, slide in type, replaceable nylon retained by the aluminum extrusions to reduce energy loss. The following types of weather-stripping are required: nylon pile weather stripping on the door bottoms; dual pile weather-stripping at sliding door lead edges; weather-stripping between the carrier and header on the sliding doors; dual pile weather-stripping at the interlock rails between the sliding door and sidelites; dual pile weather-weather-stripping between the sidelites doors and the door jambs.

* + - * 1. Glass: Glazing shall comply with ANSI Z97.1 thickness as indicated.

Glazing Active Door Panels 1/4” (6mm) tempered unless otherwise specified.

Glazing Sidelite Door Panels 1/4” (6 mm) tempered unless otherwise specified

Glazing Installation: Review Division 8 Section for glazing requirements.

* + - 1. DOOR HEADERS
         1. Sliding Door Carrier Assemblies and Overhead Roller Tracks: Manufacturer's standard carrier assembly that allows vertical adjustment; consisting of Delrin-covered, ball-bearing-center wheels operating on a continuous roller track. Support doors from carrier assembly by adjustable cantilever and pivot assembly.
      2. HARDWARE
         1. General: Provide manufacturers standard hardware as required for proper door operation.
         2. Breakaway Feature: Provide release hardware that allows panels to swing to full 90 degrees. Maximum force to open panel shall be 50 lbf (222 N). Limit arms shall be provided to control swing of non-sliding panels on break-out; swing shall not exceed 90 degrees.

Choose locking hardware. Consult SPEC NOW for more information

* + - * 1. Door Handles (Non-Positive latch door type)

Manufacture’s recessed pull handle installed on the sliding leaf and a C Handle shaped pull on the opposing side of the sliding leaf.

* + - * 1. **[Locking Hardware:**

**Deadbolts: Laminated-steel hook, mortise type, BHMA A156.5, Grade 1.**

**Two-Point Locking for Sliding Doors: Mechanism in stile of active door leaf that automatically extends second lock-bolt into overhead carrier assembly.**

**Thumb turn Interior key exterior. [Keyed both sides] Lock indicators if required by code.]**

* + - * 1. **[Positive Latch: Manufacturer's standard non-keyed, spring loaded, latch and strike that can secure sliding door panels to adjacent jamb. Strike shall mount flush to surface of framing. Latch shall engage by closing action of door.]**
        2. Threshold:

ADA Compliant Sliding Door Threshold: Manufacturer’s standard threshold members and bottom-guide track system, with a 3/8” diameter pin in a polyethylene covered slot.

Configuration: Saddle-type threshold across door opening and **[surface-mounted] [recessed]** guide track system at sidelites.

Configuration: No threshold across door opening and **[surface-mounted] [recessed]** guide track system at sidelites.

* + - * 1. **[Trackless Threshold/Guide track**

**Trackless Design: Floor mounted guide track and threshold not allowed.**

**Breakout from a full open position only.]**

* + - * 1. **[Flush Bolt- manually operated flush bolt is required when using a trackless option.]**
        2. **[Self-closing Device: A non-electrified, adjustable speed, rack and pinion mechanism, which will close the door to a positive latched position.]**
      1. ALUMINUM FINISHES
         1. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
         2. Anodized Finish:

**[Clear Anodic Finish: AAMA 611, AA-M12C22A31, Class II, 0.010 mm].**

**[Dark Bronze Anodic Finish: AAMA 611, AA-M12C22A44, Class I, 0.018 mm].**

**[Color Anodic Finish: AAMA 611, AA-M12C22A44, Class I, 0.018 mm]. [To match architects sample]**

* + - * 1. Painted Finish:

**[Powder coat painted to match architects sample] [Manufactures standard colors]**

**Kynar paint finish, [2 coat] [3 coat] [to match architects sample]**

* + - * 1. Clad Finish: Cladding shall be factory finished at manufacturers facility using .36 thick metalcladding panel surface utilizing tesa® 4965 tape. Heat and humidity resistant, the specialized adhesive tape is comprised of a polyester backing coated on both sides with a transparent modified acrylic adhesive and a tensile strength of 20 N/cm. tesa® 4965 is recognized per UL standard 969. UL file: MH 18055.

**[Stainless Steel with No. 4 Satin Finish]**

**[Stainless Steel with No. 8 Mirror-like Finish]**

**[Bronze with Satin Finish]**

**[Bronze with Polished, Non-directional Finish]**

**[Brass with Satin Finish]**

**[Brass with Polished, Non-directional Finish]**

Consult SPEC NOW Center for customized finish options.

EXECUTION

1. EXECUTION
   * + 1. EXAMINATION
          1. Examine doors and frames with Installer present, for compliance with requirements for installation tolerances, wall and floor construction and other conditions affecting performance.
          2. Proceed with installation only after unsatisfactory conditions have been corrected.
       2. INSTALLATION
          1. General: Do not install damaged components. Fit frame joints to produce hairline joints free of burrs and distortion. Rigidly secure non-movement joints.
          2. Entrances: Install intensive care/critical care (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.

Install surface-mounted hardware using concealed fasteners to greatest extent possible.

Set headers, carrier assemblies, tracks, operating brackets, and guides level and true to location with anchorage for permanent support.

* + - * 1. Glazing: Install glazing as specified in Division 08 Section Glazing according to automatic door manufactures instructions.
      1. FIELD QUALITY CONTROL
         1. Manufacturer’s representative shall provide technical assistance and guidance for installation of doors.

Factory trained and certified manufacturer’s representative shall provide technical assistance and guidance for installation of doors.

* + - 1. ADJUSTING
         1. Adjust doors and hardware for smooth and safe operation.
      2. CLEANING AND PROTECTION
         1. Clean glass and metal 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 08 Section "Glazing" for cleaning and maintaining glass

END OF SECTION