

DORMA Automatics, Inc.

924 Sherwood Drive
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Fax: 1-877-423-7999
<http://www.dorma-usa.com>



ARCHITECTURAL SPECIFICATION ICU/CCU 300/300T

SECTION 08314 – Automatic Entrance Doors

DORMA Automatics, Inc. ICU/CCU 300/300T Full Breakout Design
MANUAL SLIDING DOOR SYSTEM

I. PART ONE – 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: [Insert applicable sections].

1. Section 07900 - Caulking
2. Section 08400 - Entrances and Storefronts
3. Section 08710 - Finish Hardware
4. Section 08800 – Glass & Glazing

1.02 REFERENCES:

A. American National Standards Institute (ANSI), 11 W. 42nd St., 13th Floor, New York, NY 10036, 212-642-4900, Fax: 212-398-0023.

B. Builders' Hardware Manufacturers Association (BHMA), 355 Lexington Ave., New York, NY 10017, 212-661-4261, Fax: 212-370-9047.

C. National Fire Protection Association (NFPA), 1 Batterymarch Park, Quincy, MA 02269, 800-344-3555, 617-770-3000, Fax: 617-984-7057.

D. BOCA Evaluation Services, 4051 West Flossmoor Road, Country Club Hills, IL 60478, 708-799-2305, Fax: 708-799-0310.

E. American Association of Automatic Door Manufacturers (AAADM), 1300 Sumner Avenue, Cleveland, OH 44115-2851, 216-241-7333, Fax: 216-241-0105.

F. ICBO Evaluation Service, Inc., 5360 Workman Mill Road, Whittier, CA 90601-2998, 562-699-0543, Fax: 562-695-4694

G. Southern Building Code Congress International, Inc., 900 Montclair Road, Birmingham, AL 35213-1206, 205-591-1853, Fax: 205-591-0775.

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1.03 SUBMITTALS:

- A. Product Data: Submit manufacturer's product data, standard details and installation instructions for all materials provided in this specification.
- B. Shop Drawings: Submit shop drawings that document: profiles, joining methods, product components, anchorage details, adjacent construction interface, dimensions and necessary wiring for grounding to eliminate static discharge.
- C. Samples: Reasonably sized to adequately represent materials and finishes.
- D. Contract Closeout: Submit Manufacturer's Warranty, and Owner's Manual.

1.04 QUALITY ASSURANCE:

- A. INSTALLERS QUALIFICATIONS: Installer experienced 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.
- B. MANUFACTURER'S QUALIFICATIONS: Manufacturer to have minimum (5) five years successful experience in the fabrication of automatic and manual 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 PRODUCT HANDLING:

- A. All materials shall arrive in the manufacturer's original sealed and labeled containers.
- B. Store materials in a dry, protected, well-vented area. Immediately report any damaged material to carrier that made the delivery and note such damage on the carrier's freight bill of lading.
- C. Remove all protective materials after installation.
- D. Precautions should be taken through the remainder of the construction process to ensure that doors will be without damage at time of acceptance.

1.06 SUBSTITUTIONS:

- A. Proposals for substitution products will be accepted from approved bidders only and must be submitted a minimum of ten (10) working days prior to the bid date. The proposed substitution shall meet the performance and quality standards of this specification.

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1.07 JOB CONDITIONS:

- A. Verify that other trades are complete with their required work before installing the manual sliding door system.
- B. Mounting surfaces shall be plumb, straight and secure; substrates shall be of proper dimension and material; material which door is anchored to shall be capable of supporting the manual door system and associated loads.
- C. Refer to the construction documents, shop drawings and manufacturer's installation instructions.
- D. Coordinate installation with the glass, glazing and electrical work.
- E. Observe all appropriate OSHA safety guidelines for this work.

1.08 WARRANTY/GUARANTEE:

- A. Manufacturer's Standard Warranty: Warranted materials shall be free of defects in material and workmanship for a period of one year from date of installation.
- B. DISTRIBUTOR'S WARRANTY: One year warranty: Labor and transportation charges for defective parts replacement.

1.09 DELIVERY, STORAGE AND HANDLING

- A. ORDERING AND DELIVERY: Comply with factory's ordering instructions and lead time requirements. Delivery shall be in manufacturer's original, unopened, undamaged containers with identification labels intact.
- B. STORAGE AND PROTECTION: Provide protection from exposure to harmful weather conditions and vandalism.

II. PART TWO PRODUCTS

2.01 MANUFACTURER:

- A. DORMA Automatics, Inc.
924 Sherwood Drive
Lake Bluff, Illinois 60044
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Internet address: <http://www.dorma-usa.com>
E-Mail address: automatics@dorma-usa.com

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2.02 MANUAL SLIDING DOOR SYSTEM:

A. Manual Sliding Door System: Shall be DORMA ICU/CCU (full breakout design). The system shall consist of unglazed sliding aluminum door(s) with sidelight(s), 4.5" x 4" (114mm x 101.6mm) header, trackless / track with jamb tubes. Optional header 4.5" x 7" (114mm x 177.8mm) for Telescopic system. The system shall be completely engineered, manufactured and assembled by DORMA Automatics, Inc. All operator components shall be factory assembled within the header, fully adjusted and tested. Field wiring is not required; other than connection to earth ground.

B. Sliding Aluminum Doors: Provide door units to dimension heights and widths with corresponding glazing as shown on construction documents. Door opening restrictor arms shall be provided for all panels to control and limit the opening angle of the door(s) as they swing in the direction of egress. [Please specify: standard glass stops for standard 1/4" (6mm) or other additional sizes]. All doors shall have standard 3.25" (83mm - including glass stops) intermediate muntin and 7.5" (190.5mm - including glass stop) bottom rail. Structural wall thickness to be a minimum of .125".

C. Door Operation: Shall be [select one or more: single slide, or bi-part slide, or telescopic single slide, or telescopic bi-part]. In compliance with NFPA 101, all panel(s) shall allow "breakout" to the full and open position to provide egress only at the doors full open position. This is achieved by the use of a mechanism that does not allow the package to "breakout" until all panels are at the full open position. Door(s) and sidelight(s) shall be sized and positioned to provide a minimum 0.75" (19mm) finger protection to prevent pinch points at the meeting stiles when fully opened.

D. Aluminum Frame and Extrusions: Door panels shall be 1.75" (44mm) deep and all structural sections shall be of sufficient strength with a minimum of .125" thickness to properly self-support the functionality of the sliding door system. The framing materials [including the jambs and header] shall be 4.5" (114mm) deep, 6" (152.4mm) for Telescopic systems.

E. Aluminum Extrusion Finish: Standard anodized finish shall be [select one: 204-R1 Class-II Clear anodize or 313-R1 Class-II Dark Bronze anodize]. [Special anodic finishes, special paint finishes and metal clad finishes are available upon request. Specify type and color of each finish desired].

F. Sidelights: Provide sidelight door panel(s) to dimension height(s) and width(s) as shown on construction documents with corresponding glazing. All sidelights shall have standard intermediate 3.25" (82.5mm) overall muntin. The sidelights shall swing out and allow the sliding doors to break away to the full open position for egress at the full open point in the door's movement.

G. Header: Shall be 4.5" x 4" (114mm x 101.6mm), a 6063-T5 extruded aluminum alloy, capable of supporting door panels of 1 x 220 lbs. (single slide) or 2 x 190 lbs. (bi-part slide), or 3 x 190 lbs. (Telescopic). The header shall contain the door mounting components. The header cover shall have a continuous self-locking hinge design and open flush with the top of the header.

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H. Door Hanger Wheels: Shall be 1.5" (44 mm) diameter Delrin™ wheels with self lubricating sealed ball bearing cores. The sliding door(s) shall be stabilized on the track by 1.625" (36mm) diameter anti-riser wheels. This assembly shall allow the sliding doors to freely swing outward for emergency egress. The door height shall have an upward or downward adjustment of 3/16" +/- (5mm) as required by field conditions.

I. Track Guide: Shall be required adjacent to the sidelight(s) (SO panels). [Continuous threshold is available - specify if required]. No threshold is required for trackless units.

J. Weatherstrip: The DORMA ICU/CCU manual sliding door system shall include vinyl gasketing at the bottom of sliding door(s) and sidelight(s), on the sliding door lead edges, between the carrier and the header on the sliding door(s), between sliding door(s) and sidelight door(s), between sidelight door(s) and jamb(s).

K. Positive Latching: Includes internal vertical latching mechanism components that comply with NFPA 101.

L. Accessories: Optional remote status monitoring for open/closed position.

M. Electrostatic Grounding: Accomplished by a spring loaded brass contacts that are in constant contact with grounding strip.

2.03 OPERATING CONDITIONS:

A. Climatic Conditions: All manual sliding door system components shall operate between -0° F (-18° C) and +100° F (38° C) in all climatic conditions.

2.04 RELATED WORK REQUIREMENTS:

A. Glass and Glazing: Shall be in accordance with Safety Glazing standard ANSI-Z97.1.2.

III. PART THREE EXECUTION

3.01 INSPECTION:

A. Verify that the manual sliding door system installation will not disrupt other trades. The door installer shall verify that the installation area is dry, clean and free of foreign matter. Check as-built conditions and verify the manufacturer's manual sliding entrance system details for accuracy to fit the wall assembly prior to fabrication. Report [in writing] to the Contractor any detrimental conditions to the proper functioning of the sliding door system. Installation shall proceed once any unsatisfactory conditions have been corrected and in accordance to the manufacturer's recommendations.

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3.02 INSTALLATION OF MANUAL SLIDING ENTRANCE SYSTEMS:

A. Installation shall be in strict accordance with the manufacturer's instructions by a qualified installer.

B. Comply with the manual sliding door system manufacturer's recommendations and/or installation guide when installing the manual sliding door system. Set all units plumb, level and secure.

C. Adjustment and Cleaning: After repeated operation of the completed installation, inspect doors for optimum operating condition and safety. Clean all metal surfaces promptly after installation.

D. Explain and review the Daily Safety Check Procedure.

END OF SECTION 08460