



SECTION 08 42 43

TORMAX SERIES TX9600TLR

INTENSIVE CARE UNIT TRACKLESS SMOKE RATED MANUAL SLIDING DOOR

I. PART ONE GENERAL

1.01 SUMMARY:

A. Work included:

1. Furnishing and installing factory fabricated and finished intensive care unit manual sliding door system without track.
2. Entrances shall be rated as a barrier for passage of smoke

B. Related Work: [Insert applicable sections including:].

1. Section 07 92 00 - Joint Sealers
2. Section 08 41 00 - Entrances and Storefronts
3. Section 08 71 00 - Finish Hardware
4. Section 08 81 00 - Glazing
5. Section 26 05 26 - Grounding and Bonding for Electrical Systems

1.02 REFERENCES:

- A. ANSI/UL 325 – Door, Drapery, Gate Louver and Window Operators and Systems
- B. UL 1784 – Air Leakage Tests for Door Assemblies
- C. NFPA 105 – Standard for the Installation of Smoke Door assemblies
- D. ANSI Z97.1 Safety Glazing Material Used in Buildings – Methods of Test.
- E. ASTM B221 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Shapes and Tubes.
- F. NFPA 101 Life Safety Code

1.03 SUBMITTALS:

- A. Product Data: Provide manufacturer’s product and complete installation data for all materials in this specification.
- B. Shop drawings: Show profiles, joining method, location of components, anchorage details, adjacent construction interface, and dimensions as well as all necessary wiring and electrical requirements.
- C. Samples: Sized to adequately represent material.
- D. Contract Closeout: Submit the Manufacturer’s warranty and performance certifications [if applicable].
- E. Installation Guide: Provide a written installation guide and/or installation recommendations.

1.04 QUALITY ASSURANCE:

A. ICU trackless smoke rated manual sliding door system shall be manufactured to meet performance design criteria.

1.05 PRODUCT HANDLING:

A. All materials shall arrive in the manufacturer's original sealed, labeled containers.

B. Store materials in a dry, protected, well-vented area. Report damaged material immediately to the delivering carrier and note such damage on the carrier's freight bill of lading.

C. Remove all protective material after installation.

1.06 SUBSTITUTIONS:

A. Proposals for substitution products will be accepted only from bidding contractors a minimum of 10 working days before the bid due date. The proposed substitution shall meet the performance and quality standards of this specification.

1.07 JOB CONDITIONS:

A. Verify that other trades are complete before installing the intensive care unit trackless smoke rated manual sliding door system.

B. Mounting surfaces shall be plumb, straight and secure; substrates shall be of proper dimension and material.

C. Refer to the construction documents, shop drawings and manufacturer's installation instructions.

D. Coordinate installation with the glass and glazing.

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 one year after installation.

II. PART TWO PRODUCTS

2.01 MANUFACTURER:

A. TORMAX USA Inc.

12859 Wetmore Road
San Antonio, TX 78247
Phone: 1-888-685-3707
Phone: 210-494-3551
Fax: 210-494-5930
www.tormaxusa.com

Contact Factory for local Tormax Distributor

2.02 INTENSIVE CARE UNIT TRACKLESS SMOKE RATED MANUAL SLIDING DOOR SYSTEM:

A. Intensive care unit door system: Shall be Tormax Series 9600TL SR ICU Trackless Smoke Rated Manual Sliding Door System. The system shall consist of sliding aluminum door(s), sidelight(s) (unglazed), frame, header and smoke and draft control accessories. The system shall

be completely engineered, manufactured and assembled by TORMAX USA, Inc. All components shall be factory assembled, adjusted and tested.

B. Sliding Aluminum Doors: Provide door units with corner block construction to dimension heights and widths with corresponding glazing as shown on construction documents [select one: standard narrow stile or medium stile]. The door panel shall have security glass stops. [Specify glass thickness: Glass stops 1/4" (6 mm), 5/8" (16 mm) and 1" (25 mm) shall be available for all door panels.] The door(s) shall be supported by a factory adjusted cantilever support and pivot assembly. All door panels shall have intermediate rails. Door(s) and sidelight(s) shall be sized to prevent pinch points at meeting stiles.

C. Door Operation: Shall be [select one or more: 2-panel or 4-panel] Tormax TX9600TLR ICU Trackless Smoke Rated Manual Sliding Door System. The sliding door(s) must be slid to the full open position; both the sliding door(s) and swing out sidelight(s) shall break out together as a pivoting unit providing more than double the normal entrance opening. Flush bolts and transfer floor pivots shall not be an acceptable means of controlling door movement and breakout. Anti-Sag/riser roller support prevents doors from derailing and provides sag-free construction and support for panel breakout. The sliding panel restrictor will prevent accidental breakout prior to full open position.

D. Aluminum Frame: Shall be a minimum .125" (3 mm) wall thickness in integral structural sections. The frame shall be standard 4-1/2" deep x 1-3/4" wide (114 mm wide x 44 mm deep) section.

E. Aluminum Extrusion Finish: Standard Architectural Class 1 anodized finish shall be [select one: AA-M12-C21-A41 Clear, AA-M12-C22-A44 Dark Bronze or Black]. [Special anodized, paint and metal clad finishes are available upon request. Specify finish, type and color].

F. Aluminum Sidelights: Provide swing out sidelight(s) with corner block construction to dimension heights and widths with corresponding glazing as shown on construction documents [select one: standard narrow stile or medium stile]. The sidelight(s) shall have security glass stops. [Specify glass thickness: Glass stops 1/4" (6 mm), 5/8" (16 mm) and 1" (25 mm).] All panels shall have intermediate rails.

G. Header Case: Shall be 4-1/2" wide by 2-3/16" high (114 mm wide by 56 mm high) extruded aluminum. The header shall encompass an integral door track and cover. The extruded aluminum cover shall have a continuous hinge, allowing the cover to open approximately flush with the top of the header.

H. Door Hanger Wheels: Each sliding panel shall be suspended from an overhead track by (2) tandem trolley head assemblies, each consisting of (2) 1-3/8" (35 mm) diameter nylon wheels. The door height shall have an adjustment of 1/8" (3 mm) +/- as required by field conditions. Door height adjustments shall be fully accessible with the hinge cover in the "open" position.

I. Architectural Hardware: Door pulls and or latching hardware shall be provided for easy movement of doors.

J. Electrostatic Grounding: All ICU trackless smoke rated manual sliding doors shall be provided with electrostatic grounding.

K. Smoke and Draft Control Accessories: Smoke rated silicone seals shall seal horizontally between each panel and the header, and vertically between the slide and swing out sidelights, at meeting stiles and between the stile and jamb. Optional bottom rail seal shall be required where positive pressure is used to control the movement of smoke. Positive latching mechanism shall latch the sliding panel in the full closed position. Lever handles shall facilitate the unlatching of the sliding door. Breakaway release of the slide and swing out panel is achieved in the full open position

L. Optional Self Closing Mechanism - Applicable to Airborne Infection Isolation Rooms (Requires Positive Latching)

M. Optional LC Privacy Glass - Specify Selectable LC Privacy Glass to Maintain Patient Privacy.

2.03 OPERATING CONDITIONS:

A. All ICU manual sliding door system components shall operate between -30 degrees F and +130 degrees F (-34 and +54 degrees C) in all climatic conditions.

III. PART THREE EXECUTION

3.01 INSPECTION:

A. Verify that the intensive care unit trackless smoke rated manual sliding door package 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 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 intensive care unit door package. Installation shall proceed once the unsatisfactory conditions have been corrected in accordance to the manufacturer's recommendations.

3.02 INSTALLATION OF INTENSIVE CARE UNIT TRACKLESS SMOKE RATED MANUAL SLIDING DOOR SYSTEM

A. Installation shall be by an installer approved and trained by the manufacturer in strict accordance with the manufacturer's instructions and fire marshall's listing requirements.

B. Comply with the ICU trackless smoke rated manual sliding door package manufacturer's recommendations and/or installation guide when installing the door system. Set all units plumb, level and true.

C. Provide all fasteners required for installation of the ICU trackless smoke rated manual sliding door system.

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

E. Explain and review the Daily Safety Check Procedure.

END OF SECTION 08 42 43

TORMAX USA Inc.