

SECTION 08320

MANUAL SLIDING GLASS DOORS

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

- A. Work Included: Provide labor, materials and equipment necessary to complete the work of this Section, including but not limited to the following:
 - 1. Sliding top hung aluminum-framed glass doors with breakaway features for interior use, manual-operated.
- B. Related Work: The following items are not included in this Section and will be performed under the designated Sections:
 - 1. Section 08411 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS.
 - 2. Section 08710 - DOOR HARDWARE for additional hardware requirements.

1.2 SUBMITTALS

- A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for manual top hung aluminum-framed glass doors, with breakaway feature
- B. Shop Drawings: For sliding aluminum-framed glass doors. Include plans, elevations, sections, details, and attachments to other work.

1.3 QUALITY ASSURANCE

- A. Obtain door and frame from same manufacturer.
- B. Installer Qualifications: An experienced installer who has completed sliding aluminum-framed glass door installations similar in material, design, and extent to those indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- C. Safety Glass: Category II materials complying with testing requirements in 16 CFR 1201.
 - 1. Subject to compliance with requirements, permanently mark safety glass with certification label of the Safety Glazing Certification Council or another certification agency acceptable to authorities having jurisdiction.

1.4 PROJECT CONDITIONS

- A. Field Measurements: Verify sliding aluminum-framed glass door openings by field measurements before fabrication and indicate measurements on Shop Drawings.
 - 1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating sliding aluminum-framed glass doors without field measurements. Coordinate wall construction to ensure that actual opening dimensions correspond to established dimensions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. “Manual ICU/CCU Door” as manufactured by Besam, Inc., 1900 Airport Road, Monroe, NC 866-BESAM-US
 - 2. “5900 series” as manufactured by Record-USA, 4910 Starcrest Drive, Monroe, NC (800) 438-1937
 - 3. “2125 Series” as manufactured by Nabco Entrances, Inc., S82 W18717 Gemini Drive, Muskego, WI (877) 622-2694
 - 4. Or approve equal.

3.0 WARRANTY

Door packages to be warranted against defect in material and workmanship under normal use for a period of one year from the date of installation. During the period of warranty, the manufacturer will repair or replace components or parts to be defective in material or workmanship.

2.2 MATERIALS

- A. Aluminum Extrusions: Provide alloy and temper recommended by sliding aluminum-framed glass door manufacturer for strength, corrosion resistance, and application of required finish. Continuous extruded aluminum header and cover shall conceal continuous rolling track. The door carrier to incorporate steel, precision, sealed ball bearing rollers to ensure smooth manual door operation, and anti-rise rollers to prevent door derailment. Swing type emergency breakaway system with concealed steel rod secured with high quality integral lock nuts. Breakaway pressure to be field adjusted to local and governing code requirements

- B. Fasteners: Provide aluminum, nonmagnetic stainless steel, epoxy adhesive, or other materials warranted by manufacturer to be noncorrosive and compatible with sliding aluminum-framed glass door members, trim, hardware, anchors, and other components.
 - 1. Exposed Fasteners: Unless unavoidable for applying hardware, do not use exposed fasteners. For application of hardware, use fasteners that match finish of member or hardware being fastened, as appropriate.
- C. Glass: Provide 1/4 inch thick tempered glass units that comply with safety glazing requirements and with Section 08800 - GLASS AND GLAZING.
- D. Hardware: Provide manufacturer's standard hardware fabricated from aluminum, stainless steel, or other corrosion-resistant material compatible with aluminum; designed to smoothly operate, tightly close, and securely lock sliding aluminum-framed glass doors. Do not use aluminum in frictional contact with other metals. Where exposed, provide solid bronze; extruded, cast, or wrought aluminum; solid white metal with special coating finish; or nonmagnetic stainless steel.
 - 1. Roller Assemblies: Provide movable panels with rollers and roller assemblies that comply with AAMA 906.3.
 - 2. Trackless to allow total clear floor. Provide recessed pin track only where trackless is impossible.
 - 3. Door Pulls: Provide manufacturer's standard extruded-aluminum pull grips.
 - 4. No locking device.
 - 5. Internal mechanical components to be interchangeable and similar in function and serviceability with standard product line offerings.
 - 6. Breakaway, must swing 90 degrees with no greater force than 50 lbs and comply with NFPA 101 Life Safety Code and or AHJ. Active leaf bottom pivot to be strictly steel construction and not allow for disengagement at any point of breakout.

2.3 FABRICATION

- A. General: Fabricate sliding aluminum-framed glass doors in sizes indicated with OX operation. Include a complete system for assembling components and anchoring doors.
- B. Factory-Glazed Fabrication: Glaze sliding aluminum-framed glass doors in the factory where practical and possible for applications indicated. Comply with AAMA/NWWDA 101/I.S.2.

2.4 ALUMINUM FINISHES

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

- B. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
- C. Class I, Color Anodic Finish: AA-M12C22A42/A44 (Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class I, integrally colored or electrolytically deposited color coating 0.018 mm or thicker) complying with AAMA 611.
 - 1. Color: Dark bronze, or as selected by owner.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine openings for compliance with requirements for installation tolerances and other conditions affecting performance of work.

3.2 INSTALLATION

- A. Comply with manufacturer's written instructions for installing doors, hardware, accessories, and other components. Comply with requirements of governing codes and regulations.
- B. Set doors level, plumb, and true to line, without warp or rack of frames and panels. Provide proper support and anchor securely in place.

3.3 ADJUSTING

- A. Adjust door for proper operation in accordance with manufacturer's instructions and adherence to NFPA 101 Life Safety Code and or OHJ.

3.4 CLEANING

- A. Clean aluminum surfaces immediately after installing sliding aluminum-framed glass doors. Avoid damaging protective coatings and finishes. Remove excess glazing and sealants, dirt, and other substances.
- B. Clean glass of factory-glazed doors immediately after installing sliding aluminum-framed glass doors. Comply with manufacturer's written recommendations for final cleaning and maintenance. Remove nonpermanent labels from glass surfaces. Remove and replace glass that has been broken, chipped, or damaged during construction.

END OF SECTION