

ENTRANCES

Specifications

Thermal Doors

- Series 250-T
- Series 400-T

SECTION 08 11 16 ALUMINUM DOORS AND FRAMES

SERIES	STILES	TOP RAIL	BOTTOM RAIL	GLAZING INFILL
250-T Narrow Stile	3" (76.2)	2-7/8" (73)	4-5/16" (109.5)	1" (25)
400-T Medium Stile	4-1/4" (108)	4-5/16" (109.5)	7-1/4" (184.2)	1" (25)
A.D.A. Bottom Rail Option			9-1/2" (241.3)	

I. GENERAL DESCRIPTION

Work Included: The glazing contractor shall furnish all necessary materials, labor, and equipment for the complete installation of aluminum entrance doors, door frames, and hardware as detailed on the drawings and specified herein.

Work Not Included: Structural support of the framing system, wood framing, structural steel, masonry, and final cleaning.

QUALITY ASSURANCE

For purposes of designating type and quality for work in this section, drawings and specifications are based on U.S. Aluminum Series 250-T or 400-T Entrance Doors.

OPTIONAL: Door shall have ADA 9-1/2" (241.3) bottom rail. When substitute products are to be considered, supporting technical literature, samples, and drawings must be submitted 10 days prior to bid date in order to make a valid comparison of the products involved.

II. PRODUCTS MATERIALS

Door members shall be extruded architectural aluminum 6063-T5 alloy and temper and joined together by a rigid thermal barrier. Major portions of all door sections, except glazing beads, shall be nominal .125 (3.2). Wall thickness of frame members shall be nominal .093 (2.4). Screws, nuts, washers, bolts, rivets, and other fastening devices shall be aluminum, stainless steel or other non-corrosive materials.

DOOR CONSTRUCTION

Door stiles and rails shall be aluminum extrusions accurately joined with polyamide strips and heavy concealed reinforcement brackets secured with bolts and screws.

Doors shall have one snap-in glass stop with E.P.D.M. glazing gasket on both sides of the glass. No exposed screws shall be permitted. Each door leaf shall be equipped with an adjusting mechanism, located in the top rail near the lock stile, which provides for minor clearance adjustments after installation.

A hard-backed poly-pile weatherstrip shall be installed in both stiles of center hung single doors and in hinge stiles of center hung pair of doors. Offset pivoted or butt hung doors shall have weatherstripped door stops at frame jambs and header. The active meeting stile of all pairs of doors shall have an adjustable astragal with double line of weatherstripping.

OPTIONAL: Door bottom rail will be weathered with an E.P.D.M. blade gasket sweep strip applied with concealed fasteners. (**NOTE:** This option is required for high performance conditions.)

OPTIONAL: Door bottom rail shall receive a concealed weatherstripped insert.

HARDWARE

Hardware for aluminum doors and door frames shall be the entrance manufacturer's standard. If custom hardware is to be furnished by others, templates and physical hardware must be submitted prior to any fabrication.

FINISH

All exposed framing surfaces shall be free of scratches and other serious blemishes. Aluminum extrusions shall be given a caustic etch followed by an anodic oxide treatment to obtain...(Specify one of the following).

- ____ #11 Clear anodic coating
- ____ #22 Dark Bronze anodic coating
- ____ #33 Black anodic coating

A Fluoropolymer paint coating conforming with the requirements of AAMA 2605. Color shall be (Specify a U.S. Aluminum standard color).

III. EXECUTION INSTALLATION

All items under this heading shall be set in their correct locations as shown in the details and shall be level, square, plumb and at proper elevation and in alignment with other work in accordance with the manufacturer's installation instructions and approved shop drawings. All joints between entrance framing and the building structure shall be sealed in order to secure a watertight installation. Upon completion of the installation of the entrances, it shall be the contractor's responsibility to make all necessary final adjustments to attain normal operation of each door and its mechanical hardware.

PROTECTION AND CLEANING

After installation the General Contractor shall adequately protect exposed portions of the aluminum entrance work from damage by grinding and polishing compounds, plaster, lime, acid, cement or other contaminants. The General Contractor shall be responsible for final cleaning.