

# 500 HD entrances

## SPECIFICATIONS

### I. GENERAL

#### DESCRIPTION

Work included: Furnish all necessary material, labor and equipment for the complete installation of aluminum swing doors as shown on the drawings and specified herein.

Work Not Included: Structural support of the aluminum framing, trim, shims, and perimeter sealants. (Specifier list any other exclusions.)

Related Work Specified Elsewhere: (Specifier List).

#### QUALITY ASSURANCE

Drawings and specifications are based upon the 500 HD entrance doors and 450 HD frames as manufactured by CMI Architectural Products, Inc., De Smet, SD. Whenever substitute products are to be considered, supporting technical literature, samples, drawings and performance test data must be submitted ten (10) days prior to bid in order to make a valid comparison of the products involved. Test reports certified by an independent test laboratory must be made available upon request.

#### PERFORMANCE REQUIREMENTS

Air infiltration: Shall be tested in accordance with ASTM E 283 at pressure differential of 1.567 P. S. F.. A single 3'-0" x 7'-0" entrance door and frame shall not exceed .50 CFM per lineal foot of perimeter crack. A pair of 6'-0" x 7'-0" entrance doors and frame shall not exceed 1.0 CFM per lineal foot of perimeter crack.

### II. PRODUCTS

#### MATERIALS

Extrusions shall be 6063-T5 alloy and temper (ASTM B221 and alloy G.S. 10A-T5). Door stiles and rails shall be 2" in depth, and the sections shall have a minimum wall thickness of 3/16". Frame members shall be 2" at the face and 4 1/2" in depth and shall have a minimum wall thickness of 3/16" at exposed surfaces.

Fasteners used for assembly, shall be aluminum, stainless, or zinc plated steel in accordance with ASTM A 164-71. Perimeter anchors shall be stainless, or zinc plated steel. (Anchors are provided by the glazing contractors). Glazing gaskets shall be E.P.D.M., Elastomeric or Neoprene.

#### HARDWARE

(Specifier note) If entrance hardware must be furnished under the "Finish Hardware" section of the specifications: (please specify:) The finish hardware supplier shall be responsible for furnishing physical hardware to the entrance manufacturer prior to fabrication. If lock cylinders are to be master keyed, it is recommended that cylinders be included under the "Finish Hardware" section of the specifications.

Hardware for entrance doors and frames shall be as follows:

- |                             |   |
|-----------------------------|---|
| 1. Pivots/Butt Hinges _____ | Includes style, finish, type, model, series, manufacturer, etc. to assure a complete description. |
| 2. Locks: _____             |   |
| Active Leaf _____           | Refer to Section A for standard hardware offered with stock entrance packages.                    |
| Inactive Leaf _____         |   |
| 3. Closer _____             | Refer to Section D for complete list & description of door hardware.                              |
| 4. Exit Device _____        |   |
| 5. Push/Pull _____          |   |
| 6. Threshold _____          |   |
| 7. Miscellaneous _____      |   |

#### FINISH

All exposed aluminum surfaces shall be free of scratches and other serious blemishes. All exposed surfaces shall be given a caustic etch followed by an anodic oxide treatment to obtain the following finish: (Specifier select).

An Architectural Class II clear anodic coating in accordance with the Aluminum Association Standard AA-M12 C22 A31 designated as #20 Clear.

An Architectural Class I anodic coating with integral color in accordance with the Aluminum Association Standard AA-M12 C22 A44 designated as #33 Dark Bronze.

(Specifier note: Champagne, Lt. Bronze, Medium Bronze, and Black are available colors offered at a premium price.)

ORGANIC COATING: High performance fluorocarbon coatings in accordance with AAMA 2605. Color as selected by Architect and offered at a premium price.

#### FABRICATION

The door stile and rail face dimensions shall be:

Stiles	Top Rail	Bottom Rail	Cross Rails
5"	5"	6 1/2" & 10"	4", 5" & 6 1/2"

Corner construction shall consist of a mechanical fastener applied block and fillet weld connection. Glass stops shall be hook-in type, square fit for 1/4" or 1" glazing, with EPDM glazing gaskets. Door frames shall be 450 HD series (2" x 4 1/2") requiring shear block assembly.

### III. EXECUTION

#### INSTALLATION

500 HD doors and frames shall be installed, glazed and adjusted by experienced workmen in accordance with the manufacturer's installation instructions and/or approved shop drawings.

#### PROTECTION AND CLEANING

After installation, all metal surfaces shall be cleaned to remove mortar, plaster, paint, or other contaminants. After cleaning, all work shall be protected against damage until it is accepted by the General Contractor. Thereafter, it shall be the responsibility of the General Contractor to maintain protection and provide final cleaning.

(NOTE: Product improvements may require specification changes without notice.)