

**SECTION 084113**  
**ALUMINUM STOREFRONTS SERIES DHS-500**

**PART 1 – GENERAL DESCRIPTION**

- A. Work included: Furnish all necessary materials, labor, and equipment for the complete installation of aluminum framing as show on the drawings and specified herein.

**1.01 QUALITY ASSURANCE**

- A. Drawings and specifications are based on the U.S. Aluminum Series DHS-500 System. Whenever substitute products are to be considered, supporting technical literature, samples, drawings, and performance data must be submitted 10 days prior to bid in order to make a valid comparison of the products involved. Test reports certified must be made available upon request.

**1.02 PERFORMANCE REQUIREMENTS**

- A. Air Infiltration: Shall be tested in accordance with TAS 202.
  - 1. DHS-500 Storefront – pressure @ 6.24 psf = (5.08 L/s/m<sup>2</sup>).
- B. Water Infiltration: Shall be tested in accordance with ASTM E 547. No water penetration at test pressure of: 18.0 psf Dade Country Protocol TAS-202.
  - 1. DHS-500 Storefront Meets all Miami-Dade Country, Florida, Air, Water, Structural, and Impact requirements.
- C. Large and Small Missile Impact Test:
  - 1. Maximum design pressure of +/-80 psf with Laminated Glass with PVB interlayer +/-130 psf with SGP Interlayer.

**PART 2 – PRODUCTS MATERIALS**

- A. Extrusions shall be 6063-T5 alloy.

## 2.01 FABRICATION

- A. Vertical and horizontal framing members shall have a nominal face dimension of 1-3/4" (44.5). Overall depth shall be 5" (127).

## 2.02 FINISH

- A. All exposed framing surfaces shall be free of scratches and other serious blemishes. Class 1 anodized extrusions shall be given a caustic etch followed by an anodic oxide treatment to obtain Clear Anodize finish.

## 2.03 GLAZING

- A. Large Missile 1-5/16" (33) Laminated Insulating Glass (Heat Strengthened / Heat Strengthened on Exterior, 1/2" (12.7) Air Space, 1/4" (6.3) Tempered Interior.)
- B. Glass Tint Available as Selected by the Architect / Owner.

## 2.04 SEALANTS

- A. All metal-to-metal joints shall use DOW 995 Silicone. Door seal gaskets shall require small DOW 795 Silicone.

## PART 3 – EXECUTION INSTALLATION

- A. All glass framing shall be set by a qualified installer in correct locations as shown in the details and shall be level, square, plumb, and in alignment with other work in accordance with the manufacture's installation instructions and approved shop drawings. All joints between framing and the building structure shall be sealed in order to secure a watertight installation.

## 3.01 PROTECTION AND CLEANING

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

## 3.02 SPECIFICATIONS

- A. Frame Sections are Extruded from a Minimum of 6063-T6 Aluminum Alloy

- B. Frame Depth 1-3/4" x 5" (44.5 x 127)
- C. 0.125" (3.2) Nominal Wall Thickness, Door and Frame
- D. Maximum Frame Height: 120" (3.05m)
- E. Standard Finish: Clear Anodized (Class I)
- F. Factory Pre-Glazed with Structural Silicone

### 3.03 TESTING AND CODE COMPLIANCE

- A. Miami-Dade County Approved.
- B. Maximum Design Pressures: +100 psf / -130 psf Large Missile Impact and Small Missile Impact
- C. Test Air Infiltration to ASTM E283 at 6.24 psf
- D. Test Water Infiltration to ASTM E331 at 20.0 psf

END OF SECTION