

DIVISION 8 - DOORS AND WINDOWS
ALUMINUM ENTRANCES AND STOREFRONTS

PART 1 - GENERAL**1-01 DESCRIPTION**

- A. Lockheed procurement documents and Division 1 apply to work of this section.
- B. Related work specified elsewhere
 - 1. Sealants
Section 07920
 - 2. Finish Hardware (except as required for work of this section)
Section 08710
 - 3. Glazing
Section 08800

1-02 PERFORMANCE AND TESTING

- A. Thermal movement

The system shall provide for expansion and contraction resulting from ambient temperature range of 120° F (49° C).
- B. Wind loading

The system shall have been tested in accordance with ASTM E330 to withstand uniform pressure of 25 psf inward and 25 psf outward.
- C. Weather resistance

The system shall have been tested to demonstrate permanent resistance to leakage as follows with test pressure differential of 10 percent of design loading.

 - 1. Air infiltration

Not more than 0.06 cfm per ft² and 0.50 cfm per perimeter ft. tested in accordance with ASTM E283.

2. Water infiltration

No uncontrolled water penetration tested in accordance with ASTM E331.

1-03 QUALITY ASSURANCE

- A. Acceptable manufacturers

1. Kawneer/Amax
2. Vistawall
3. U.S. Aluminum

- B. Qualifications of installer

Installer normally engaged in installation of aluminum storefront systems and approved by manufacturer to install type of system specified.

1-04 SUBMITTALS

- A. Make submittals for approval in accordance with the provisions of Section 01300.

1. Shop drawings

Show plans, elevations and sections of metal framing, installation of glazing and accessories, connections and flashing to abutting construction.

2. Samples

- a. Finish samples of aluminum
- b. Glazing

3. Product data

Submit product data showing compliance with the requirements of Part 2.

1-05 PRODUCT DELIVERY AND STORAGE

- A. Deliver materials under protective cover and store within dry enclosed spaces at the building where directed. Protect from damage during shipment, storage, and erection.

- B. Immediately replace damaged materials with new undamaged materials without additional cost to Lockheed.

1-06 JOB CONDITIONS

Verify conditions and dimensions at the building prior to fabrication. Fabrication shall conform to approved shop drawings.

PART 2 - PRODUCTS

2-01 MATERIALS

- A. Aluminum sections

As extruded from 6063-T5 alloy, conforming to ASTM B211-54T Alloy A.S. 10A-TS. Manufacturer's numbers listed are Kawneer/Amax.

- B. Doors

Medium Stile 350. Furnish with sealair weathering system on three sides and sills. Furnish doors designed for thermal glazing per door schedule.

- C. Door hardware

Furnish and install door hardware as follows to suit entrance/exit requirements shown on drawing plans and schedules. Cylinders and stops furnished under Section 08710.

1. Pairs of door (entrance set-panic exiting)

3 Pr.	Offset pivots	Kawneer
2	Concealed overhead closer	Kawneer Husky
1 Pr.	Panic guard entrance Mechanism (omit cylinder)	Kawneer
1 Pr.	Pulls G-2	Kawneer
1	Center hung 4" wide threshold	Kawneer

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Section 08410

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2.	Single swing doors (entrance set-panic exiting)		
	1-1/2 Pr.	Offset pivots	Kawneer
	1	Concealed overhead closer	Kawneer Husky
	1	Exit device 3347TP-F or 33TP (Omit cylinder & pull)	Von Duprin
	1	Pulls G-2	Kawneer
	1	Threshold	Kawneer
3.	Pairs of doors (entrance set-non panic exiting)		
	3 Pr.	Offset pivots	Kawneer
	2	Concealed overhead closer	Kawneer Husky
	1	Pulls G-2	Kawneer
	2	Push bar style V	Kawneer
	1 Set	Controller locking system (3-Point locking/M.S. lock) (omit cylinders)	Kawneer/ Adams-Rite
	1	Threshold	Kawneer
4.	Single swing doors (entrance set-non panic exiting)		
	1-1/2 Pr.	Offset pivots	Kawneer
	1	Concealed overhead closer	Kawneer Husky
	1	Pulls G-2	Kawneer
	2	Push bar Style V	Kawneer
	1	Deadlocking latch 4510 x 4560 (omit cylinders)	Adams-Rite
	1	Threshold	Kawneer

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LOCKHEED MARTIN MISSILES & SPACE

D. Doors and fixed glass frames

450 Series, 1-3/4 in. by 4 in. extruded aluminum sections. Include glazing sections required for fixed glass, steel reinforcing angles for mullions, fasteners, clips, anchoring devices and like items. Furnish frames designed for thermal glazing per window/door schedule.

E. Trim and closures

Furnish to size and shape required.

F. Screws, miscellaneous fastening devices and internal components

Stainless steel, plated or corrosion resistant materials.

G. Furnish glazing stops with neoprene bulb type glazing for doors.

H. Furnish reinforced neoprene glazing gaskets for fixed glass frames.

2-02 FINISH

A. Surface condition

Free of scratches or other serious blemishes.

B. Treatment

1. Doors and frames

Permanodic dark bronze, unless noted otherwise.

2. Hardware

US10B

2-03 FABRICATION

A. Fabricate sections true to details with clean, straight, sharply defined profiles, free from defects, with tight flush hairline joints.

B. Include necessary brackets, fasteners and like items required for installation.

C. All cutouts, recesses, mortising, or milling operations required for hardware shall be accurately made and reinforced with back plates.

PART 3 - EXECUTION

3-01 INSTALLATION

- A. Apply a heavy coat of zinc chromate or bituminous paint to aluminum surfaces in contact with plaster masonry or concrete prior to installation.
- B. Install frame selections and doors set plumb and true, sealed weathertight, correctly aligned and securely anchored, prepared for glazing.
- C. Caulk joints between frames and adjoining construction with caulking compound as specified under Section 07920 in color compatible with aluminum. Caulk joints tightly and remove excess material. Set thresholds with a bead of caulking on each edge.
- D. Adjust all hardware as required to provide ease of operation without binding and positive drift-free closure. Final adjustment shall be after HVAC balancing.

END OF SECTION