

SECTION 08410

ALUMINUM ENTRANCE DOORS & STOREFRONT

PART 1 GENERAL

1.01 DIVISION OF RESPONSIBILITIES TERMINOLOGY: **NOT USED**

1.02 SUMMARY: The Contractor shall provide exterior Aluminum Storefront; interior windows aluminum channel glazing frames; interior aluminum swing doors; interior aluminum manual sliding door; interior and exterior Automatic Sliding Entrance Door Units with Transoms, and exterior and interior aluminum door hardware where shown on the drawings, as specified in this Section, and as needed for a complete and proper installation.

1.03 RELATED WORK: Section 08710-Finish Hardware for Aluminum Door door finish hardware that shall be provided by the Contractor's selected hardware supplier. Some, but not all, Aluminum Door Finish Hardware will be furnished by a PETCO Inventory Agreement Vendor. The Contractor shall install all door finish hardware except where specifically noted to be installed by PETCO.

1.04 FLORIDA BUILDING CODE TEST PROTOCOLS FOR HIGH VELOCITY HURRICANE ZONES: **NOT USED**

1.05 SUBMITTALS:

A **NOT USED**

B Storefront Shop Drawings/ Product Data: Submit Shop Drawings and Product Data per Section 01340-Submittals, showing the dimensions of work to be fabricated; type, size and spacing of fasteners; material thickness, painted finish type and finish Colors; and the interface of this work with adjacent trades

- 1 Engineer's Certification: If specifically required by the local jurisdiction, exterior aluminum storefront shop drawings shall be signed and sealed by a registered professional engineer licensed to practice in the State of NC, as a certification that the exterior aluminum storefront has been engineered by either the manufacturer or the manufacturer's engineer/agent to meet the more stringent of either the Building Code or local wind load requirements for exterior aluminum storefront
2. Automatic Sliding Entrance Door/ Transom Unit(s) Product Data: The Contractor shall submit Product Data per Section 01340-Submittals, in sufficient detail, showing the dimensions of work; type, size and spacing of fasteners; material thickness, finish Colors; and the interface of this work with adjacent trades.
3. Interior Manual Sliding Aluminum Door Unit Product Data: The Contractor shall submit Product Data per Section 01340-Submittals, in sufficient detail, showing the dimensions of work; material thickness, finish Color; and the interface of this work with adjacent trades.

C **NOT USED**

1.06 QUALITY ASSURANCE:

A. Aluminum Storefront and Automatic Sliding Entrance Door Unit shall bear the Product Notice of Acceptance--current jurisdiction approval and product acceptance, if required by the jurisdiction

B Storefront Structural Engineering: The Contractor and storefront manufacturer shall be responsible for providing an engineered storefront system which meets the most stringent of

either the pertinent Model Building Code or local wind load requirements for exterior aluminum storefront and interior storefront at the Vestibule which may be subject to exterior wind load requirements. The Contractor and storefront manufacturer shall provide all integral vertical and horizontal structural reinforcements as may be required, but may not be specifically shown on the drawings, as a part of the manufacturer-engineered storefront system, to meet applicable model code and local wind load requirements.

- C. Interior Manual Operation Aluminum Doors with glass lites shall be provided with a 10" bottom door rail.
- D. Automatic Sliding Entrance Door Units shall be manufactured and installed per ANSI A156.10 for power operated pedestrian doors.
- E. The Contractor shall provide inspection and certification of the installed Automatic Sliding Entrance Doors by an AAADM-certified inspector as further specified in this Section.

#### 1 07 WARRANTY:

- A. Automatic Sliding Entrance Doors/ ANSI 156.10 Compliance: The Contractor shall include a copy of a completed "American Association of Door Manufacturer (AAADM) Inspection Form", as proof of the installed automatic door unit(s) compliance with ANSI 156.10 standards, in the Building Maintenance Manual submitted to PETCO per Section 01700-Contract Closeout. The Automatic Sliding Entrance Door Unit(s) shall be inspected and the AAADM Inspection Form shall be signed by an AAADM-certified inspector before either placing the automatic doors in operation, or prior to the Date of Substantial Completion, whichever is earlier.
- B. Aluminum Entrance Doors and Storefront Manufacturer's Warranty: The Contractor shall provide the manufacturer's aluminum storefront and entrance door warranty to replace work of this Section that fails due to defective materials or workmanship within three (3) years from the Date of Substantial Completion.
- C. Aluminum Storefront Installer's Warranty: The Contractor shall include a copy of the aluminum storefront installer's warranty for all work provided, for a term of 1 year after the Date of Substantial Completion, in the Building Maintenance Manual submitted to PETCO per Section 01700-Contract Closeout.
- D. Automatic Sliding Entrance Door Units Product Warranty: The Contractor shall provide the manufacturer's standard Three Year product warranty.
- E. Automatic Sliding Entrance Door Units Installer's Warranty: The Contractor's Installer shall provide a warranty for all work provided under the general contract, including labor to repair or replace defective parts and transportation, for one (1) year from the Date of Substantial Completion.

## PART 2 PRODUCTS

### 2.01 ALUMINUM STOREFRONT & MANUAL ALUMINUM SWING DOORS (EXTERIOR AND INTERIOR):

- A. Aluminum Storefront and Doors shall be equal to products by Kawneer Company Inc., Bloomsburg PA
  - 1. Unless otherwise accepted by the PETCO Project Manager, acceptable alternative manufacturers are limited to the following:

- a Leed Himmel Industries Inc , Hamden CT (203-248-2886)
- b Tubelite Architectural Systems, Reed City MI (616-832-2211)
- c United States Aluminum Corporation, Waxahachie TX (214-937-9651).
- d Vistawall Architectural Products, Terrell TX (972-551-6100)

- 2. Interior Storefront: Typical Aluminum Section 4-1/2" x 1-3/4" to receive 1/4" nominal single pane glass. Finish Type and Color shall be per the Color Schedule in this Section.
- 3. Exterior Storefront: Typical Aluminum Section 4-1/2" x 2" to receive 1" nominal insulating glass with other aluminum extrusion profiles where shown on the drawings. Finish Type and Color shall be per the Color Schedule in this Section

B Acceptable Aluminum Storefront and Doors:

Manufacturer	Thermal	Non-Thermal	Entrance Doors
Kawneer	451T	Trifab II 450	190 Series Narrow Stile
Leed Himmel	Series 4500-T	Series 1500	Series AB Narrow Stile
Tubelite	14000-T Series	4500 Series	D-36 Narrow Stile
U.S. Aluminum	Series IT451	Series 450-S	#250 Narrow Stile
Vistawall	Series 3000-S	Series 2000	Series 212 Narrow Stile

C Aluminum Manual Operation Entrance Doors:

- 1. Provide 10" bottom door rail
- 2. Single Acting Door:
  - a. Door Stile Face Shape: Beveled
  - b. Offset Pivot Hinges: Clear Anodized Finish.
  - c. Push/ Pull Hardware: 1" tubular horizontal Push Bar and vertical Pull Bar, Clear Anodized Finish.
- 3. Pair of Single Acting Doors:
  - a. Door Stile Face Shape: Radiused.
  - b. Offset Pivot Hinges: Clear Anodized Finish.
  - c. Push/ Pull Hardware: 1" tubular horizontal Push Bar and vertical Pull Bar, Clear Anodized Finish.
  - d. Flushbolts: Top and Bottom of inactive door leaf, Clear Anodized Finish.
- 4. Double Acting Door:
  - a. Door Stile Face Shape: Radiused
  - b. Double Acting Hinges: Refer to Section 08710-Finish Hardware.
  - c. Push/ Pull Hardware: 1" tubular horizontal Push Bar on both sides of double acting doors, Clear Anodized Finish
  - d. Bottom Pivot: Center acting

2.02 INTERIOR ALUMINUM MANUAL SLIDING DOOR:

- A. The Contractor shall purchase and install Aluminum Manual Sliding Door, from NABCO Entrances Inc. via an Inventory Agreement. The Contractor shall coordinate delivery of Door Units with Transoms, to the jobsite, with:

NABCO ENTRANCES INC.

Contact: Laura Eidler, National Accounts Coordinator  
 e-mail: leidler@nabcoentrances.com  
 Tel. 262-682-5794 FAX 262-679-3319

- B. Finish: Clear Anodized.
- C. Aluminum Manual Sliding Door:
  1. Provide GT2125, manual slider, fixed sidelite, non-panic, trackless, surface-applied unit.
  2. Provide vinyl weathering.
  3. Provide lowered 7/8" gap at floor.
  4. Refer to drawings for Left or Right handing.

2.03 AUTOMATIC SLIDING ENTRANCE DOOR UNITS:

- A. The Contractor shall purchase and install Gyro Tech Automatic Sliding Entrance Door Units with Transoms, from NABCO Entrances Inc. via an Inventory Agreement. The Contractor shall coordinate delivery of Door Units with Transoms, to the jobsite, with:

NABCO ENTRANCES INC.  
 Contact: Laura Eidler, National Accounts Coordinator  
 e-mail: leidler@nabcoentrances.com  
 Tel. 262-682-5794 FAX 262-679-3319

No product substitutions are permitted

- B. Finish:
  1. The Interior Sliding Entrance Door Unit and Transom shall be Clear Anodized Finish.
  2. Exterior Automatic The Sliding Entrance Door Unit and Transom's finish/ color shall match the building shell's exterior storefront finish/ color.
- C. Automatic Sliding Entrance Door Units with Transoms:

Drawing Mark	Stationary (O) Stationary w/ Breakout (SO) Operating (SX)	Gyro Tech Unit Designation
AU-1 (Exterior) 14'-0" unit	O-SX-SX-O	GT1175 Bi-Part "Whisper" Slider, fixed sidelites
AU-2 (Interior) 14'-0" unit	O-SX-SX-O	GT1175 Bi-Part "Whisper" Slider, fixed sidelites

1. Automatic Door Actuator: Provide Operator and Header, with Motion and Presence Detectors.
2. Control Switch: Provide five-position control switch (i.e. off-exit-automatic-reduced opening-hold open). Control Switch must be located on the "Retail" side of the interior automatic sliding entrance door units; and on the "Vestibule" side for the exterior automatic sliding entrance door unit
3. Locking: Provide two-point locking latch bolt, mortise cylinder with interior-side thumb turn, and 7-pin interchangeable construction core (Vestibule-side for interior door units, exterior side of exterior door unit) Refer to Section 08710-Finish Hardware for balance of door finish hardware to be provided by the Contractor.

- 4 Threshold: Provided by the automatic sliding entrance door manufacturer, one piece, ADA-compliant, 1:2 maximum slope, surface mounted saddle threshold, located at the door opening.
  - 5 Glazing: The Contractor shall provide 1/4" non-insulated glazing for doors, sidelite and transom units per Section 08800-Glazing
- 2.04 ALUMINUM BRAKE METAL: Provide .063" Brake Metal, with factory-finished color as scheduled in this Section to match adjacent aluminum storefront, as detailed on the Drawings, and as required for a complete installation
- 2.05 SAFETY RAIL AT INTERIOR SIDE OF EXTERIOR STOREFRONT: *(if applicable)*
- A. Provide Safety Rail system mounted to the interior face of exterior storefront, when the exterior storefront's horizontal aluminum framing mullion is not located between 21" and 34" height above the finish floor.
    - 1 Rail: Provide equal to Kawneer #60-110, 1.75" H. x 1.75" W.
    - 2 The Safety Rail shall receive Wall Bumper trim as specified in Section 10300

2.06 ALUMINUM STOREFRONT, SWING DOOR, SLIDING DOOR COLOR SCHEDULE:

Description (Location)	Finish Type/Finish Color
Building Exterior (Exterior Storefront, Exterior Automatic Sliding Entrance Door Unit with Transom)	Contractor shall verify with the Building Shell drawings; the exterior automatic sliding entrance door unit finish / color shall match the building shell's exterior storefront finish/ color.
Building Interior (Safety Rail, if req'd)	To match the exterior storefront finish/ color
Building Interior (Vestibule)	Clear Anodized
Building Interior (all other)	Clear Anodized or Satin Anodized
Brake Metal	Color to match adjacent aluminum color, as scheduled

PART 3 EXECUTION

- 3.01 SURFACE CONDITIONS: The Contractor shall examine the areas and conditions under which work of this Section will be provided; shall correct conditions detrimental to the timely and proper completion of the work; and shall NOT proceed until unsatisfactory conditions are corrected.
- 3.02 INSTALLATION:
- A Provide a bituminous paint/ zinc chromate or similar separation material where aluminum is in contact with steel or other dissimilar material
  - B Install brake metal closures, with concealed fasteners wherever possible, for complete finished appearance Vertical brake metal shall be continuous, without horizontal joints.
  - C Manual Door Adjustment: 8.5 ft-lbs (exterior), 5.0 ft-lbs (interior) maximum opening force.
  - D Miscellaneous Warning Signs: Provide applied safety decals as required for code compliance for the Automatic Sliding Entrance Doors and as specified per Section 10300- PETCO-Furnished & Contractor-Provided Items

END OF SECTION

SECTION 08710

FINISH HARDWARE

PART 1 GENERAL

1.01 DIVISION OF RESPONSIBILITIES TERMINOLOGY: **NOT USED**

1.02 SUMMARY:

- A. The Contractor shall purchase Door Finish Hardware from the PETCO Inventory Agreement Vendor as shown on the drawings, as specified in this Section, and as required for a complete installation, except where finish hardware items may be specifically noted to be provided by PETCO or others.
- B. Some parts of the door finish hardware for aluminum entrance doors shall be furnished by the aluminum door supplier, including typically:
  - 1. Aluminum Door Hinges or Pivots.
  - 2. Aluminum Door Pulls and Push Bars.
  - 3. Aluminum Door flush bolts at pairs of doors.
  - 4. Aluminum Door Closers and closer accessories (surface and overhead concealed)

1.03 RELATED WORK:

- A. Section 08100- Metal Doors & Frames; interior and exterior metal doors & frames shall be purchased from the same Inventory Agreement supplier as the Door Finish Hardware specified in this Section. Exterior Metal Doors and Frames may also be purchased from this Inventory Agreement supplier.
- B. Section 08410- Aluminum Entrance Doors & Storefront; some door finish hardware may be furnished by the aluminum door manufacturer.

1.04 SUBMITTALS:

- A. Finish Hardware Schedule/ List: Submit finish hardware schedule/ list.
- B. Finish Hardware Product Data: Submit product data for all finish hardware items, with the specified finish hardware clearly identified.

PART 2 PRODUCTS

- 2.01 DOOR FINISH HARDWARE (INVENTORY AGREEMENT): The Contractor shall purchase Door Finish Hardware from the PETCO Vendor via an Inventory Agreement, and shall install Door Finish Hardware. The Contractor shall coordinate purchase and delivery of Door Finish Hardware with:

GIRTMAN & ASSOCIATES INC. / GIRTMAN TOTAL OPENINGS, LLC.  
Contact: Donna Howard e-mail: dhoward@girtman.com  
7115 Cockrill Bend Blvd., Nashville TN 37209  
Tel. 615-350-6000 FAX 615-350-6686

No product substitutions or alternative suppliers are permitted.

2.02 DOOR FINISH HARDWARE NOTES:

- A Except as may be specified otherwise, finishes shall be as follows: