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FLEETWOOD WINDOWS & DOORS

1 Fleetwood Way, Corona, California 92879

GUIDE SPECIFICATION

KONA SERIES 3800

Fixed System

ANSI/AAMA 101-I.S.2-97, F-C40

Fleetwood Aluminum Products, Inc., Kona Series 3800 is a 4-1/2", Outside Glazed, Fixed System with a poured-in-place thermal break. The available Fixed configurations, can be combined (mulled) with operable windows, swing doors or sliding glass doors. A complete line of trim, mullions and accessories is available.

Part 1. GENERAL

1.01 Work Included

A. Aluminum Fixed System:

1. Furnish and install aluminum architectural Outside Glazed Fixed systems complete with related components as shown on the project drawings and as specified within this or other related sections.

B. Manufacturer:

- 1. All aluminum fixed systems specified under this section are to be supplied by a single manufacturer and must have an ANSI/AAMA label permanently attached.
- 2. All aluminum fixed systems to be furnished under this section are to be KONA Series 3800, as manufactured by FLEETWOOD Aluminum Products, Inc., Corona, California (951) 279-1070 or an approved equal (see paragraph "D. Substitutions" below).

C. Glass & Glazing:

- 1. Specifications for all glass and glazing materials to be installed in conjunction with materials covered by this section are contained in Section specifications and as indicated within the project plans.

D. Substitutions:

- 1. Other manufacturers requesting approval to bid products as an equal to the specified product, must do so within 10 days prior to bid.
- 2. All requests for approval must include sufficient information and certified test results showing that the proposed product meets or exceeds the criteria contained within this and other related sections.
- 3. Separate representative test results, showing the test specimen size and test results, are required for each product.
- 4. Other manufacturers requesting approval shall have been regularly engaged in the fabrication of Thermal Break Windows, of the types required, for a period of not less than ten (10) years.

1.02 Related Work:

1.03 Products to be furnished but not installed:

1.04 Products to be installed but not furnished:

1.05 System Requirements:

A. Standards:

- 1. All aluminum fixed systems to be furnished under this section are to conform to the criteria of ANSI/AAMA 101-I.S.2-97. Each type of aluminum fixed system must have been tested in accordance with and conform to the minimum standards of an F-C40 rating.

B. Test Specimen Requirements:

- 1. Air, Water and Structural test specimen sizes and configurations are to be in accordance with the minimum requirements of ANSI/AAMA 101-I.S.2-97, for the type of aluminum fixed system required.
- 2. Thermal test specimen sizes and configurations are to be in accordance with the NFRC 100 procedure.

C. Test Procedure and Performance:

1. Air Infiltration Test:

- a. Complete testing in accordance with ASTM E 283, at a static air pressure of 1.57 lb PSF.
- b. Resultant air infiltration shall not exceed 0.002 cfm/ft².

2. Water Resistance Test:

- a. Complete testing in accordance with ASTM E 331 and ASTM E 547, at a static pressure difference of 4.50 PSF and 6.00 PSF.

- b. There shall be no uncontrolled water leakage.
- 3. Uniform Load Structural:
 - a. Complete testing in accordance with ASTM E 330, at a static air pressure of 40.00 PSF positive load and 40.00 PSF negative load (F-C40).
 - b. At the conclusion of the test there shall be no glass breakage or permanent damage to fasteners.
- 4. Condensation Resistance Factor:
 - a. *Please reference the Condensation Resistance results on the product NFRC reports .*
- 5. Thermal Transmittance (U-Factor):
 - a. Thermal testing is to be conducted in accordance with the NFRC 100 procedure.
 - b. Maximum Residential U-Factor is to be .56 and the maximum Non-residential U-Factor is to be .56.
 - c. Glass for Thermal Transmittance testing shall be in accordance with the requirements for validation of the NFRC glass option matrix.
- 6. Other Required Testing:
- 7. Structural requirements:
 - a. The entire aluminum fixed system shall not deflect greater than inches at a Design Pressure (DP) of PSF.

1.06 References:

AA	Aluminum Association
AAMA	American Architectural Manufacturers Association
ANSI	American National Standards Institute
NFRC	National Fenestration Ratings Council, Inc.

1.07 Submittals:

- a. The responsible contractor shall submit the following for approval:
 - 1. Shop Drawings. Sets of Blueline drawings, showing all internal and surrounding details / conditions of the Fixed System.
 - 2. Finish samples / color. Sets (Anodized samples should indicate the range of color variation).
 - 3. Product Test Reports. Sets.
 - 4. Warranties. Sets.
 - 5. Manufacturers Installation Instructions. Copies.
 - 6. Manufacturers Glazing Instructions. . Copies.
 - 7. Physical samples of materials may be requested by the Architect and are to be provided at no cost. Such samples may include, but are not limited to the following: frame sections, glass, fasteners, anchors, mullion sections and corner construction.

1.08 Delivery, Storage and Handling:

1.09 Warranty:

- a. The responsible contractor shall assume full responsibility and warrant for a period of materials specified within this section.
- b. Any deficiencies or failures of the materials or installation, to meet these specifications, during the warranty period, will be repaired or replaced by the responsible contractor at no cost.

Part 2. PRODUCTS

2.10 Material:

A. Aluminum:

- 1. All aluminum frame sections shall be extruded 6063-T6 aluminum alloy.

B. Weather-stripping and Glazing Gaskets:

- 1. All glazing gaskets are to be preloaded gaskets, specifically designed for a tight seal between the glass and sash extrusions.
- 2. All thermal separators are to be Polyurethane.

D. Glass & Glazing:

- 1. All glazing stops are to snap-in type. Screw applied stops are unacceptable, except where required for curved or radius windows.
- 2. Glazing requirements are indicated at Section of the specifications and at the project plans. Furnish glazing stops 1" glass as indicated.
- 3. All glass and glazing materials are to be factory field glazed.
- 4. All factory and field glazed materials shall dry glazed with bulb gaskets exterior and interior. Frames to field glazed are to be glazed in strict accordance with the manufacturers published glazing instructions.

E. Thermal Barrier:

- 1. The thermal break is to consist of a two part, air drying, polyurethane, poured-in-place separator contained in a specifically designed receptor channel. After de-bridging, the thermal break must produce a separation of the interior and exterior aluminum of not less than 0.210".
- 2. All thermal breaks, within the same frame component, must align.
- 3. Mechanical fasteners, welded components and operating hardware shall not bridge the thermal break.

F. Security:

- a. The manufacturer of the specified product is to certify that the product complies with the forced entry requirements of CAWM 301-90, Type "V", Level A & B.

2.02 Fabrication:

A. General:

- 1. Main-frame Head, Jamb and Sill extrusions shall have a nominal wall thickness of 0.062". Snap-on glass stop extrusions shall have a nominal wall thickness of 0.054"
- 2. Overall depth of frame shall be no less than 4 1/2".

B. Frame:

- 1. Frame and components shall be accurately coped and mechanically fastened. All joints shall be hairline.

C. Finish:

- 1. Anodized:
 - a. Finish all exposed aluminum with electrolytically deposited color, in accordance with the standards of the Aluminum Association designation number:

AA-M12-C22-A31 Clear Class II Anodized (607.1) Stock

AA-M12-C22-A41 Clear Class 1 Anodized (607.1)

AA-M12-C22-A34 Color Anodized (608.1)

AA-M12-C22-A44 Dk. Bronze Anodized (608.1) Stock

Finish to be: _____

2. Organic:

a. Finish all exposed aluminum with electrolytically deposited color in accordance with the standards of the Aluminum Association designation number:

AA-M12-C10-R1X WHITE POLYESTER (603.8) Stock

AA-M12-C10-R1X POLYESTER (603.8)

AA-M12-C10-R1X SILICONE POLYESTER (605.2)

AA-M12-C10-R1X KYNAR[®]/DURANAR[®] 70% (605.2)

AA-M12-C10-R1X KYNAR[®]/DURANAR[®] 50 % (603.8)

Finish to be: _____

Color to be: _____

Part 3. EXECUTION

3.01 INSTALLATION:

A. Use only skilled tradesmen for the installation of the aluminum Fixed System and components specified within this section.

B. Bring all discrepancies between the project plans and field conditions to the attention of the General Contractor prior to commencement of any work in the area in question.

C. Erect the aluminum Fixed System and components square and true, in strict accordance with the manufacturers published installation instructions. The installer is to furnish adequate anchoring to maintain position and integrity of the Fixed System when subjected to normal building movement and the specified windload.

D. Furnish and apply sealants in accordance with the manufacturers published installation instructions and Section weather tight installation. Remove all excess sealants to leave all exposed surfaces and joints clean and smooth.

3.02 ADJUSTMENT AND CLEANING: (SEE CLEANING & MAINTENANCE DOCUMENT)

A. Upon completion of the entire scope of the work specified within this Section, the aluminum Fixed System and components are to be cleaned of dirt and manufacturers identification marks. DO NOT REMOVE THE PERMANENT ANSI/AAMA or NFRC LABELS.

B. Not used.

C. Upon completion of cleaning and adjustment, and upon final acceptance, the aluminum Fixed System and components become the responsibility of the General Contractor or the Owner's representative, as applicable.

3.03 FIELD TESTING:

A. ALL AAMA Labeled FLEETWOOD doors and windows will be manufactured in precisely the same manner as the approved AAMA test specimen. There is

no other specific guarantee regarding weather performance of the field test results. Any field testing performed must be per AAMA 502-90, Test Method A, and performed "Immediately after installation" as required in paragraph two of Short Form Field Specifications on the inside cover.

- B. Field test results will not be considered valid unless performed within four (4) weeks of specimen installation.
- C. Due to uncontrollable installation and test variables, expect 75% of laboratory performance results in typical field installation conditions.

END OF SPECIFICATION.