

## Ultra W-FXd

### Part 1 – General

#### 1.01 Summary

- A. Section includes:
  - 1. Fixed Windows

#### 1.02 References

- A. National Fenestration Rating Council (NFRC)
- B. American Architectural Manufacturers Association (AAMA)
- C. American Society for Testing and Materials (ASTM)
- D. Aluminum Association (AA)

#### 1.03 System Description

- A. Design Requirements: Ultra W-FXd is a single source package of Window, Window Frame and hardware that is engineered for moderate traffic.

#### 1.04 Performance Requirements: Each assembly shall be tested by a recognized testing laboratory or agency in accordance with specified test methods.

- 1. Conformance to F-CW-35 specifications in AAMA/WDMA 101/I.S. 2/A440.
  - a) Air Infiltration: Accordance with ASTM E 283 at a static air pressure difference of 6.24 psf. Air infiltration shall not exceed .30 cfm per square foot.
  - b) Water Resistance: Accordance with ASTM E 331/ASTM E 547 at a static air pressure difference of 9 psf. No water leakage.
  - c) Uniform Load Structural: Aluminum window systems comply with AAMA/WDMA/CSA 101/I.S.2/A440, Voluntary specifications for aluminum windows.

#### 1.05 Quality Assurance

- A. Single Source Responsibility:
  - 1. Obtain entrances, storefronts, ribbon walls, window walls, curtain walls, window systems, and finish through one source from a single manufacturer.
- B. Provide test reports from AAMA accredited laboratories certifying the performances as specified in 1.04.

#### 1.06 Warranty

- A. Products warranted against failure and/or deterioration of metals due to manufacturing process for a period of two (2) years.

### Part 2 – Products

#### 2.01 Product

- A. Acceptable Products:
  - 1. Ultra W-FXd
  - 2. Major portions of the window stiles a nominal .051 inches.

#### 2.02 Materials and Accessories

- A. Window members: Extruded 6063 or 6060 T5 or T6 aluminum alloy.
- B. Screws, fastening devices, and internal components: Aluminum, stainless steel, or zinc plated steel. Shall be aluminum or steel, providing the steel is properly isolated from aluminum.
- C. Glazing Gasket (compression-type design).

#### 2.03 Finish

- A. Finish all exposed areas of aluminum and components as indicated.
  - 1. Powder coating
    - a. Architectural Class I
      - (a) Color powder coating confirming with AAMA2603 and 1 year Florida specifications.
      - (b) Powder Coating finish shall be chosen from finish guide.
      - (c) Finishes: Gloss / Satin / Matt / Texture
      - (d) Product application is recommended for use in normal weathering environments or internal applications.

- (e) Warranty up to 10 years depending the weather condition and area
- b. Architectural Class II
  - (a) Color powder coating confirming with AAMA2604 and 3 and 5 years Florida specifications
  - (b) Powder Coating finish shall be chosen from finish guide.
  - (c) Recommended for all buildings where optimum architectural, aesthetic, technical and economic performance is required.
  - (d) Warranty up to 15 years depending the weather condition and area
- c. Architectural Class III
  - (a) Color powder coating confirming with AAMA2605 and 10 years Florida specifications
  - (b) Powder Coating finish shall be chosen from finish guide.
  - (c) Finishes: Matt
  - (d) Recommended for all prestigious and monumental buildings and in extreme environments.
  - (e) Warranty up to 20 years depending the weather condition and area
- d. Acceptable Coatings Manufacturers:
  - (a) Akzonobel

### **Part 3 – Execution**

#### 3.01 Examinations

- A. Examine conditions and verify substrate conditions are acceptable for product installation.

#### 3.02 Installation

- A. Install in accordance with approved shop drawings and manufacturers installation instructions.

#### 3.03 Field Quality Control

- A. Make all necessary final adjustments to attain normal operation of each door and its mechanical hardware.

## **END OF SECTION**