

Ultra Curtain Wall

Part 1 – General

1.01 Summary

- A. Section includes:
 - 1. Curtain Wall

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 Curtain Wall is a single source package of Curtain Wall Heavy traffic.

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

1. Limit air leakage through assembly to 0.01 CFM/min/sq. ft. of wall area at 6.2 PSF as measured in accordance with ASTM E283.
2. Water Resistance: No water leakage when measured in accordance with ASTM E331 with a static test pressure of 12 PSF.
3. Uniform Load Deflection under 85 psf positive and 85 psf negative design wind pressure normal to the plane of the wall, shall not exceed L/175 of the clear span or 3/4", when tested in accordance with ASTM E 330.
4. Uniform Load Structural at a pressure 1.5 times the design wind pressure in accordance with ASTM E 330

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 Products

- A. Acceptable Products:
 1. Ultra Curtain Wall

2.02 Materials and Accessories

- A. Curtain wall 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) Interpon

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