[Note: items in brackets [] are options or comments, to be deleted or to replace other text as necessary.]

SECTION 08520

ALUMINUM WINDOWS

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. F-701 WinGuard flange aluminum fixed glass [picture, quarter circle, half circle, full circle, oval, ellipse, fan, eyebrow, arch, gothic, triangle, trapezoid, pentagon (doghouse), hexagon, octagon, hotdog, specify other] window. B. F-701WinGuard integral fin aluminum fixed glass [picture, quarter circle, half circle, full circle, oval, ellipse, fan, eyebrow, arch, gothic, triangle, trapezoid, pentagon (doghouse), hexagon, octagon, hotdog, specify other] window.

1.2 RELATED SECTIONS

- A. Section 07190 Vapor and Air Barriers
- B. Section 07900 Joint Sealants

1.3 REFERENCES

- A AAMA American Architectural Manufacturers Association
- 1 AAMA 103.3-93 "Procedural Guide for Aluminum and Vinyl Prime Windows and Glass Doors, Insulating Storm Products for Windows and Glass Doors and Thermal Performance of Windows and Glass Doors"
- 2 AAMA 1302.5-76, paragraph 3.1.1 Test A through 3.1.5 Test B "Voluntary Specifications for Forced-Entry Resistant Aluminum Prime Windows"
- B. ANSI American National Standards Institute
- 1. ANSI/AAMA/NWWDA 101/I.S.2-97 "Voluntary Specification for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors"
- C. ASTM American Society for Testing and Materials
- 1. ASTM C 1036-91 "Standard Specification for Flat Glass"
- 2. ASTM E 283-96 "Standard Test Method for Rate of Air Leakage Through Exterior

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A PGT Industries, Inc. Series F-701 WinGuard fixed glass aluminum window.

2.2 MATERIALS

- A Frame members: extruded from 6063-T5 alloy, nominal 0.062" wall thickness.
- B. Glazing attachment with silicone adhesive.
- C. [Muntins: extruded aluminum 6063-T5 alloy, tube construction (flat bar used for interior surface)
- D. [Stainless steel assembly screws.]

2.3 ACCESSORIES

A. [Mullions: 1x2.75 tube mull [1x4 tube mull] [heavy duty wall] [specify mull] and associated mull clips.]

2.4 FABRICATION

- A. Main frame and sash joints constructed with butt joint fit, assembled with phillips pan head screws, and factory sealed with Parbond or Schnee-Moorhead sealer.
- B. All hardware factory installed.

2.5 FINISHES

Colors: Selected by Architect from the following:

- Standard coating color charts.
 Custom coating color charts.
- 3. Color Name and Number:
- A AAMA 2603 finish: Pretreatment plus thermosetting polyester powder coating.
- B. AAMA 2605 Duranar (or comparable) finish pretreatment plus 2 coat, 50 and 70 percent Kynar base options.

Windows, Curtain Walls, and Doors"

- 3. ASTM E 330-96 "Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference"
- 4. ASTM E 331-96 "Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference"
- 5 ASTM E 547-96 "Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential"

D Florida Building Code

- 1 Protocol TAS-201 "Impact Test"
- 2 Protocol TAS -202 "Air, Water, Structural Test"
- 3 Protocol TAS -203 "Cyclic Wind Load Test"

1.4 SYSTEM DESCRIPTION

- A Configuration: flange [integral fin] construction fixed glass aluminum [picture, quarter circle, half circle, full circle, oval, ellipse, fan, eyebrow, arch, gothic, triangle, trapezoid, pentagon (doghouse), hexagon, octagon, hotdog, specify other] window.
- B. Frame: 2.784" frame depth.
- C Glazing: exterior glazed, with aluminum glazing bead, [7/16" laminated] [1 1/16" IG Lami. (3/16" - Space - 7/16" Lami)] glass, factory glazed.
- D. [Muntins: double applied colonial configuration (raised external muntin, interior flatbar) [ogee double applied colonial configuration (ogee external muntin, interior flatbor)] [specify pattern and number of lites]
- E. Performance Requirements
- 1 When tested according to Miami-Dade County test protocols, meets the design pressures stated in the Miami-Dade County Notice(s) of Acceptance for this product.
- 2 Air Infiltration: 0.3 (ft^3)/min/(ft^2) maximum when tested per ASTM E 283 at a 1.57 psf static air pressure difference.
- 3. Water Resistance: no water leakage when tested per ASTM E 547 at a static air pressure difference of 15% of the positive design pressure.

- C. Clear Anodized Finish: NAAMM AA-C2241, 204R1 class II Minimum 0.4 mils, in natural aluminum color.
- D. ETERNA® Wood grain finish: Pretreatment plus base powder coat with preprinted film transfer with organic photosensitive pigments and cellulose resin thermoprint.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that openings provide an acceptable anchoring surface, being clean, level, plumb, and dimensionally within the manufacturer's tolerance of clearance spacing.
- B. Correct unacceptable openings as required prior to installation.

3.2 INSTALLATION

- A. Install windows and accessories in accordance with approved shop drawings and manufacturer's recommendations.
- B. Securely fasten frames, and set units level, plumb, and square with respect to the surrounding structure, without twist or bow.
- C. Place insulation materials around shim spaces as required to ensure continuity of the thermal barrier of the structure.
- D. Apply caulk all around between the aluminum frame and the structure, ensuring that a continuous airtight and watertight perimeter seal results. Leave exposed surfaces clean and free of caulk.

3.3 ADJUSTING AND CLEANING

A. Leave units thoroughly clean and free of dirt or other construction residue.

END OF SECTION

1.5 SUBMITTALS

- other products.

- 1.6 QUALITY ASSURANCE

- 1.7 DELIVERY, STORAGE, AND HANDLING
- instructions.
- 1.8 WARRANTY
- aluminum windows and doors.

4. Uniform Load Structural: after testing per ASTM E 330 with a load equal to 150% of the positive design pressure, the unit must be operable, with a maximum permanent deformation in any member of 0.4% of the member's length.

A. Submit according to provisions of Section 01300.

B. Product Data: provide manufacturer's standard details, specifications and catalog information, recommendations, and installation instructions.

C Shop Drawings: include unit elevations, details of all aluminum window sections, typical anchorage and installation details, type of glazing and window finish, and interface with

D. Finish Samples: manufacturer's available colors.

E. Unit Samples: if required by Architect, provide scaled-down size samples of each unit type, to demonstrate design and construction of the unit and hardware.

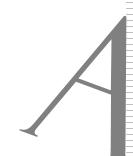
A. Manufacturer Qualifications: minimum five (5) years documented experience in the manufacture of aluminum windows as required for this project.

B. Installer Qualifications: workmen properly trained and skilled in the installation and handling of aluminum windows as required for this project.

A. Store and handle windows and accessories in accordance with the manufacturer's

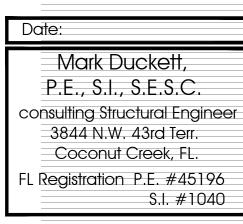
B. Protect the products from damage due to the elements, construction traffic, or other hazards, from the time of arrival through the completion of the project.

A. Manufacturer's Warranty: Furnish manufacturer's Limited Lifetime Warranty on



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Issued

\bigcirc	:Permit Set
\bigcirc	:G.C. Bid Set
\bigcirc	:Owner Review
$\overline{\mathbf{O}}$	2-15-16:Structural Review
	Review



Windwo Specifications PGT 700 Series

PROGRESS SET/NFC 09/15/2016