



**American Products, Inc. – 3 Part Specification  
Glazed Aluminum Curtain Wall  
API Unitized Curtain Wall – CW775U  
08 44 13**

## **PART 1 GENERAL**

### **1.01 SUMMARY**

- A. Section Includes: Aluminum Curtain Walls:
  - 1. American Products, Inc. (API) Series CW625U (6-1/4"), CW775U (7-3/4"), and CW1000U (10") Unitized.....Aluminum Curtain Wall System
- B. Services Furnished:
  - 1. Materials by API
- C. Related Sections:
  - 1. Section: 08 40 00 - Entrances Storefronts and Curtain Walls
  - 2. Section: 08 41 13 - Aluminum - Framed Entrances and Storefronts
  - 3. Section: 08 43 13 - Aluminum - Framed Storefronts
  - 4. Section: 08 51 13 - Aluminum Windows
  - 5. Section: 08 81 00 - Glass and Glazing
  - 6. Section: 08 88 00 - Special Function Glazing
  - 7. Section: 7 - Joint Treatment for Sealant Requirements

### **1.02 REFERENCES**

- A. Abbreviations
  - 1. AAMA – American Architectural Manufacturers Association
  - 2. ASTM – American Society for Testing and Materials
  - 3. SSG – Structurally Glazed
  - 4. U - Unitized

### **1.03 ADMINISTRATIVE REQUIREMENTS**

- A. Coordination
- B. Pre-installation Meetings
- C. Sequencing
- D. Scheduling

### **1.04 SUBMITTALS**

- A. Per Division 1, Product Information, Samples, Shop Drawings According to Conditions of Contract

### **1.05 ACTION SUBMITTALS**

- A. Product Data
- B. Shop Drawings
  - 1. By Others
- C. Samples
  - 1. Samples will be Provided as Required
- D. Certificates
- E. Delegated Design Submittals



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- F. Test & Evaluation
  - 1. Provided Upon Request
- G. Manufacturer's Instruction
  - 1. Per API's Installation Manual
- H. Source Quality Control Submittals
- I. Field/Site Quality Control Submittals
- J. Manufacturer Reports
- K. Sustainable Design Submittals
- L. Special Procedure Submittals
- M. Qualification Statements

**1.06 CLOSEOUT SUBMITTALS**

- A. Maintenance Contracts
  - 1. Available
- B. Warranty Documentation
  - 1. Shall be Project Specific

**1.07 MAINTENANCE MATERIAL SUBMITTALS**

- A. Spare Parts
- B. Extra Stock Materials
- C. Tools

**1.08 QUALITY ASSURANCE**

- A. Regulatory Agency Sustainability Approvals
- B. Qualifications
  - 1. Qualified Curtain Wall Installer Chosen by General Contractor
- C. Testing Agencies
  - 1. Optional – To be Chosen by Manufacturer
- D. Preconstruction Meetings
  - 1. Meetings to be Held to Discuss Installation Manual, Project, Requirements, Jobsite Conditions, and Requirements of Warranty

**1.09 WARRANTY/BOND**

- A. Manufacturer Warranty
- B. Special Warranty



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## PART 2 PRODUCTS

### 2.01 SYSTEMS

- A. Manufacturer
  - 1. API Exclusively
- B. Product Options
  - 1. With or without Front Face Cap (Both Options are SSG)
- C. Descriptions (All Sizes are Dependent on the Size of the Finish Cap)
  - 1. Series CW625U (2-3/4" x 6-1/4")
  - 2. Series CW775U (2-3/4" x 7-3/4")
  - 3. Series CW1000U (2-3/4" x 10")
- D. Performance/Design Criteria
  - 1. Capacities/Tests
    - a. Air Infiltration Tested per ASTM E-283-04 at Exterior Face Using a Positive Static Pressure Differential of 6.24 p.s.f. Net Air Infiltration 16.4 cfm
    - b. Static Water Penetration Test per ASTM E-331-00 at 15.0 p.s.f
    - c. Dynamic Water Penetration Test per AAMA 501.1-05 with Dynamic Wind Load Pressure Equivalent of 15.0 psf
    - d. Uniform Structural Deflection Test at Design per ASTM E-330-02. See Installation Manual for Mullion Capacities.
    - e. Story Drift – Elastic per AAMA 501.4. 0.794" in Either Direction Laterally, 0.625" Perpendicular in Either Direction
    - f. Story Drift – Inelastic per AAMA 501.4 - 2" in Either Direction Laterally, 2" Perpendicular in Either Direction
    - g. Thermal Expansion Allowed for Temperature Range of 120 Degree F (49 Degree C)
    - h. Insulated Glass Units per ASTM E-1300
    - i. Allowable Deflection per Load Charts on Installation Manual or According to Site-Specific Engineering
- E. Materials
  - 1. 6063-T6/~~6063-T5~~ Aluminum Complying with ASTM B 221 Reinforcing Members are to be Stainless Steel, Nickel/Chrome Plated Steel per ASTM B 456, Zinc Coated Steel, and Iron per ASTM B 633 or 6063-T6 Aluminum per ASTM B 221
  - 2. Accessories
    - a. Fasteners - Aluminum, Nonmagnetic or Stainless Steel or with Non-Corrosive Coating
    - b. Exposed Fasteners to be Stainless Steel
    - c. Glazing Setting Blocks and Gaskets per ASTM C 864. Sealant to be Compatible to EPDM Rubber
    - d. Sealant per AAMA 803.3
  - 3. Finishes
    - a. Powder Coat
    - b. Kynar (50% 2 Coat, 70% 3 Coat)
    - c. Anodized per AAMA 612



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## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verification of Conditions
  - 1. Verify Substrate Conditions
- B. Evaluation and Assessment (to be completed by Installer)
  - 1. All Substrates and Host Structures Shall be of Adequate Strength for Design Loads
  - 2. Pull Test for Sealants Shall be per Sealant Manufacturer

### **3.02 PREPARATION**

- A. Surface Protection by Installer
  - 1. Protect Adjacent Work
  - 2. Clean All Surfaces and Metal with Appropriate Cleaner

### **3.03 INSTALLATION (by Installer)**

- A. Shim all Anchor Conditions with Styrene Shims 5000 psi Minimum
- B. Provide Proper Weep for Water per Installation Manual
- C. All Metal Joints to be sealed
- D. Isolate Dissimilar Materials with Shims or Bituminous Paint
- E. Install per Manufacturer's Installation Manual
- F. Install Frames Plumb and Level

### **3.04 FIELD QUALITY CONTROL**

- A. Onsite Water Test Available upon Demand; shall be Selected by Architect or Engineer of Record; shall be According to ASTM E 1105

### **3.05 CLEANING**

- A. Cleaning is by General Contractor, Not by Manufacturer
- B. No Detergents or Chemicals without Prior Approval
- C. No Scrapers
- D. Use Soft Microfiber Clothes Only

**END OF SECTION**

### **American Products Inc.**

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