

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes: Metal Awnings:
 - 1. Metal Awnings.
- B. Services Furnished:
 - 1. Materials by FenWall
- C. Related Sections:
 - 1. 107113 – Exterior Sun Control Devices
 - 2. 107300 – Protective Covers

1.02 REFERENCES

- A. Abbreviations
 - 1. AAMA – American Architectural Manufacturers Association
 - 2. ASTM – American Society for Testing and Materials

1.03 SYSTEM PERFORMANCE DESCRIPTION

- A. Design
 - 1. Design Metal Awnings, including a comprehensive engineering analysis by a qualified engineer, using structural performance requirements and design criteria indicated.
- B. Structural Performance
 - 1. Metal Awnings shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated without permanent deformation of awning components.
- C. Wind Loads
 - 1. Determine loads based on a uniform positive and negative pressure.

1.04 ADMINISTRATIVE REQUIREMENTS

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

1.05 SUBMITTALS

- A. Per Division 1, Product Information, Samples, Shop Drawings According to Conditions of Contract.
- B. General: Prepare, review, approve, and submit specified submittals in accordance with "Conditions of the Contract". Submittals include, but are not limited to: Product Data, Shop Drawings, Engineering Data, and Material and Finish Samples.
- C. Substitutions: No substitutions without written approval for Owner and/or Architect. Whenever substitute products are to be considered, supporting technical data, samples, and test reports must be submitted ten (10) working days prior to bid date in order to make a valid comparison.
- D. Quality Assurance / Control Submittals:
 - 1. Engineering data: Submit Engineering drawings and data indicating that wall and assembly comply with structural performance requirements and design criteria indicated.
 - 2. Installer Qualification Data: Submit installer qualification data.

1.06 ACTION SUBMITTALS

- A. Product Data: Submit product data for each type of product specified.

- B. Shop Drawings: For Metal Awning and accessories. Include plans, elevations, sections, details, and attachments to other work. Show frame, component profiles, mounts, spacing, anchorage, accessories, and finish colors.
- C. Samples: Submit verification samples for colors on actual Steel and aluminum substrates indicating full color range expected in installed system.
- D. Manufacturer's Instructions:
 - 1. As per Installation/Shop Drawings

1.07 CLOSEOUT SUBMITTALS

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

1.08 MAINTENANCE MATERIALS SUBMITTALS

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

1.09 QUALITY ASSURANCE

- A. Regulatory Agency Sustainability Approvals
- B. Qualifications:
 - 1. Installer Qualifications: Installer experienced (as determined by contractor) to perform work of this section who has specialized in the installation of work similar to that required for this project. If requested by Owner, submit reference list of completed projects.
- C. Testing Agencies
 - 1. Optional – To Be Chosen by Manufacturer
- D. Pre-Installation Meetings:
 - 1. Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions, and manufacturer's warranty requirements.

1.10 WARRANTY

- A. Project Warranty: Refer to "Conditions of the Contract" for project warranty provisions.
- B. Manufacturer's Warranty

Special Warranty

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Manufacturer:
 - 1. FenWall, LLC
13929 Lynamar Boulevard
Tampa, FL 33626
Telephone: (813) 343-5979
www.FenWalls.com

2.02 MATERIALS

- A. Aluminum Extrusions: ASTM B 221M, Alloy 6063-T5
- B. Metal Roof Panels: Factory-formed panels designed to be overlapped, interconnected and mechanically attached to supports in various profiles and finishes to suit design and site conditions.
- C. Fasteners: Use types and sizes to suit unit installation conditions.

2.03 FABRICATION, GENERAL

- A. Join frame members and roofing panels to each other with threaded fasteners, fillet welds concealed from view welds, or both, as standard with awning manufacturer unless otherwise indicated.

2.03 METAL AWNING

- A. Frames: Shall be pre-fabricated in the shop to the greatest extent possible from extruded 1" x 1" x 1/8" min. 6063-T5 aluminum tubing and as required by structural loads. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation.
- B. Metal Roof Panels: Fabricate and finish metal roof panels and accessories in the shop to greatest extent possible, by manufacturer's standard procedures and processes and as necessary to fulfill indicated performance requirements.
- C. Anchors, Fasteners, Fittings, Hardware, and Installation Accessories: Complying with performance requirements indicated and suitable for exposure conditions, supporting structure, anchoring substrates, and installation methods indicated. Provide as required for awning assembly, mounting, and secure attachment.

2.05 FINISHES AND COLORS

- A. Metal Roof Panels shall be factory finished.
- B. Awning frame and awning hardware shall receive polyester powder coating.
- C. Polyester powder coating: Electrostatically applied colored polyester powder coating heat cured to chemically bond to metal substrate.
- D. Provide color as indicated or, if not otherwise indicated, as selected by architect from standard color range of polyester powder coatings.

PART 3 EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS / RECOMMENDATIONS

- A. Compliance: Comply with manufacturer's product data, including product technical bulletins, installation instructions, and product carton instructions.

3.02 EXAMINATION

- A. Site Verification of Conditions: Verify conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer's instructions.

3.03 PREPARATION

- A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.
- B. Aluminum Surface Protection: Protect aluminum surfaces from contact with lime, mortar, cement, acids, and other harmful contaminants.

3.04 INSTALLATION

- A. General: Install manufacturer's system in accordance with shop drawings, and within specified tolerances.
 - 1. Locate and place awning level, plumb, and at indicated alignment with adjacent work.
 - 2. Use concealed anchorages where possible.



FABRICATION & MANUFACTURING

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FenWall - 3 Part Specification

Metal Awning

Fenwall Metal Awning

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3. Repair damaged finishes so no evidence remains of corrective work. Return items that cannot be refinished in the field to the factory and refinish entire unit or provide new units.

3.06 CLEANING

- A. Cleaning: The General Contractor shall clean installed products in accordance with manufacturer's instructions prior to owner's acceptance, and remove construction debris from project site. Legally dispose of debris.
- B. Protection: The General Contractor shall protect the installed product's finish surfaces from damage during construction.

END OF SECTION