SECTION 13 34 00 – FABRICATED ENGINEERED STRUCTURES

GENERAL

SUBMITTALS

Action Submittals:

Shop Drawings: Illustrate products, installation, and relationship to adjacent construction.

Product Data: Manufacturer’s descriptive data and product attributes.

Samples: [Selection samples.] [Verification samples.]

Informational Submittals:

Certificate of Compliance: Certification that installed products meet specified design and performance requirements.

SYSTEM DESCRIPTION

Design Requirements:

Design loads: In accordance with [ASCE 7.] [Building Code.] [\_\_\_\_.]

Design steel in accordance with AISC Steel Construction Manual.

Movement: Ambient temperature range of [120] [\_\_] degrees F and a surface temperature range of [160] [\_\_] degrees F.

System design to be performed by qualified professional engineer licensed in State of [\_\_\_\_].

QUALITY ASSURANCE

Installer Qualifications: Approved by structure manufacturer.

WARRANTIES

Fabricated Structures: Manufacturer’s 10 year warranty against defects in materials and workmanship.

Powder Coatings: Manufacturer’s 10 year warranty against peeling or fading in excess of 8 percent of total coated surface.

Asphalt Shingles: Manufacturer’s 30 year warranty against:

Water leakage through shingles.

Shingle discoloration due to algae growth.

Shingle damage due to winds up to 70 MPH.

1. PRODUCTS

MANUFACTURERS

Contract Documents are based on products by Poligon, [www.poligon.com](http://www.poligon.com)

Substitutions: [Refer to Division 01.] [Not permitted.]

MATERIALS

Steel:

Shapes, bars, and plates: ASTM A36/A36M, ASTM A572/A572M, or ASTM A992.

Hollow structural sections: ASTM A500/A500M.

Aluminum Sheet: ASTM B209/B209M.

Roof Decking: Nominally 2 x 6 inch Southern Yellow Pine, tongue-and-groove, unstained.

\*\*\*\* OR \*\*\*\*

Roof Decking:

Type: Nominally 2 x 6 inch Hem-Fir, tongue-and-groove, factory stained.

Color: [\_\_\_\_.] [To be selected from manufacturer's full color range].

\*\*\*\* OR \*\*\*\*

Roof Decking:

Type: Structural insulated panels consisting of expanded polystyrene sandwiched between oriented strand board and grooved Douglas Fir siding.

Thickness: [\_\_\_\_] inches.

Minimum R-value: [\_\_\_\_.]

Roofing:

Type: Preformed 24 gage steel, [standing seam] [multi-rib] [mega-rib] profile.

* + - 1. Finish: AAMA 2605, fluoropolymer coating containing minimum 70 percent PVDF resins.
      2. Color:
         1. Top surface: [\_\_\_\_.] [To be selected from manufacturer's full color range].
         2. Bottom surface: Off-white.

\*\*\*\* OR \*\*\*\*

Roofing:

Type: [Monolithic] [Honeycomb] [Corrugated] polycarbonate.

Color: [\_\_\_\_.] [To be selected from manufacturer's full color range].

\*\*\*\* OR \*\*\*\*

Roofing:

Type: Laser cut aluminum panels.

Pattern: [\_\_\_\_.] [Custom pattern to be selected.]

Finish: Manufacturer’s standard powder coat, sprayed and baked.

Color: [\_\_\_\_.] [To be selected from manufacturer's full color range].

\*\*\*\* OR \*\*\*\*

Roofing:

Type: Architectural asphalt shingles.

Color: [\_\_\_\_.] [To be selected from manufacturer's full color range].

Trellis Latilla: Steel, finished to match framing.

\*\*\*\* OR \*\*\*\*

Trellis Latilla: [Ipe.] [Mahogany.] [Cedar.] [Accoya.]

ACCESSORIES

Anchors: Series 316 stainless steel.

FABRICATION

Fabricate components in accordance with AISC Steel Construction Manual and approved Shop Drawings.

Welding to conform to AWS D1.1/D1.1M.

Column Style: [Plain square.] [Windsor.] [Round.] [Wooster.] [Alma.] [Neo classic.] [Westminster.] [Winchester.]

Electrical Cutouts: Provide cutouts for electrical access at locations indicated.

Baseplate Covers: Steel, finished to match framing.

FINISHES

Steel: Poli-5000 polyester powder coat, [\_\_\_\_] color [to be selected from manufacturer's full color range], [smooth] [textured] finish.

\*\*\*\* OR \*\*\*\*

Steel: Galvanized.

\*\*\*\* OR \*\*\*\*

Steel: Poli-5000 polyester powder coat over galvanizing, [\_\_\_\_] color [to be selected from manufacturer's full color range], [smooth] [textured] finish.

EXECUTION

INSTALLATION

Install in accordance with manufacturer's instructions and approved Shop Drawings.

Installation Tolerances:

Maximum variation from plane: [1/8] [\_\_] inch in 3 feet or [1/4] [\_\_] inch in any 10 feet, whichever is less.

Maximum misalignment of members abutting end to end: [1/32] [\_\_] inch.

END OF SECTION