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SECTION 05310 - METAL DECK

**PART 1 GENERAL**

1.01 WORK INCLUDED

- A. Provide metal decking for roof structure as shown on the Drawings and specified herein.

1.02 QUALITY ASSURANCE

- A. Unless otherwise indicated, use only materials, workmanship and practices conforming to the following standards:

1. BOCA Building Code, latest edition
2. Steel Deck Institute
3. AISI Specifications for the Design of Light-Gauge Cold-Formed Steel Structural Members
4. AISI Specifications for the Design, Fabrication and Erection of Structural Steel for Buildings.
5. AISI Specifications for Welding Sheet Steel in Structures

1.03 SUBMITTALS

- A. Submit shop drawings, certifications, calculations, deck section data, etc. for approval of Resident.
- B. Submit shop drawings showing detailed layout of deck and type and gauge of steel deck to be supplied, anchorage details, complete erection instructions and all accessories necessary to complete the erection of the steel deck. All shop drawings and calculations shall be sealed and signed by a professional engineer registered in the State of Maine.

**PART 2 PRODUCTS**

2.01 MATERIALS

- A. Metal Deck:
1. Material: Corrugated steel sheet sections formed from cold rolled galvanized steel conforming to the requirements of ASTM A 446, Grade E, with a minimum yield strength of 80,000 psi.
  2. Deck Configuration: 22 gauge steel sheets having a nominal depth of 1 1/2 inches and an approximate rib spacing of 6 inches on center, having a minimum moment of

inertia of 0.191 inches to the fourth power per foot of width, as manufactured by Wheeling, Type B/BW Wide Rib Decking, or equal.

3. Size: Approximately 30 inches wide by lengths as required.
4. Finish: Zinc coating conforming to ASTM A525 G 90 commercial coating.

- B. Fastenings: Special self-tapping screws as recommended by the deck manufacturer.

### **PART 3 EXECUTION**

#### 3.01 INSTALLATION

- A. Install deck with ribs perpendicular to supports in accordance with the approved erection drawings and Steel Deck Institute Standards.
- B. Fasten deck to supports with self-tapping screws at the corner of each sheet and at overlapping corners and spaced at not more than 8-inches on centers along supporting members at ends of sheets and at not more than 12-inches on centers at intermediate supports. Provide fasteners between panels and at edge members parallel to the direction of span at a maximum spacing of 12-inches on centers.

\*\*\*END OF SECTION\*\*\*