

ARCHITECTURE
SECTION 05310
STEEL DECK

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submit Product Data and Shop Drawings. Shop drawings are to be developed by the manufacturer. Copies of structural design drawings will not be accepted.
- B. Comply with SDI Publication No. 28, "Specifications and Commentary for Steel Roof Deck and Composite Steel Floor Deck
- C. Comply with AWS D1.1, "Structural Welding Code--Steel," and AWS D1.3, "Structural Welding Code--Sheet Steel."

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Galvanized Steel Sheet: ASTM A 653, structural quality, and as follows:
 - 1. Zinc-Coating Weight: G60 (Z180)
 - 2. Grade: as required by design.

2.2 DECKING

- A. Roof Deck: Fabricate panels from galvanized steel without top-flange stiffening grooves and as follows:
 - 1. Deck Profile: Type B.
 - 2. Profile Depth: 1-1/2 inches.
 - 3. Design Uncoated Steel Thickness: As indicated on the drawings.
- B. Composite Steel Floor Deck: Fabricate ribbed-steel sheet composite floor deck panels as follows:
 - 1. Profile Depth: As indicated on the drawings.
 - 2. Design Uncoated-Steel Thickness: As indicated on the drawings.

2.3 MISCELLANEOUS

- A. Accessories: Manufacturer's recommended roof deck accessory materials and floor deck pour stops and closures.
- B. Galvanizing Repair Paint: SSPC-Paint 20 or DOD-P-21035.

PART 3 - EXECUTION

3.1 DECK INSTALLATION

- A. Install deck panels and accessories according to SDI Publication No. 28. Fasten deck to supports with screws or puddle welds at minimum of a 36/4 pattern with two (2) #10 sidelap screws per span, unless otherwise noted on the drawing.
- B. Place, adjust, align, and bear deck panels on structure. Do not stretch or contract side lap interlocks.
- C. Place deck panels flat and square and weld to structure without warp or deflection.

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- D. Cut, reinforce, and fit deck panels and accessories around openings and projections.
- E. Roof Deck Accessories: Install sump pans, sump plates, ridge and valley plates, finish strips, cover plates, end closures, and reinforcing channels. Weld to substrate.
- F. Floor Pour Stops and Girder Fillers: Weld pour stops and girder fillers to structure.
- G. Floor Deck Closures: Weld tight-fitting closures at open ends of ribs and sides of decking. Weld cover plates at changes in direction of floor deck panels.
- H. Prepare and repair damaged galvanized coatings on both surfaces with galvanized repair paint according to ASTM A 780.

END OF SECTION 05310