

SECTION 05300

METAL DECKING

PART 1 GENERAL

1.01 DIVISION OF RESPONSIBILITIES TERMINOLOGY: **NOT USED**

1.02 SUMMARY: The Contractor shall provide Metal Decking as shown on the drawings, as specified in this Section, and as needed for a complete installation.

1.03 SUBMITTALS: The Contractor shall submit shop drawings and sufficient technical data showing the layout of decking, with details of materials, gauges, accessories, openings, finishes, welds, and other pertinent data per Section 01340- Submittals.

1.04 QUALITY ASSURANCE: All metal deck shall be in accordance with the pertinent Steel Deck Institute specification and Factory Mutual-approved.

1.05 DELIVERY, STORAGE & HANDLING: In compliance with Section 05120- Structural Steel.

1.06 METAL DECK INSPECTION FOR MECHANICALLY FASTENED METAL DECK:

A. The Contractor shall provide the Metal Deck Fastening Inspection as specified in Section 01410- Construction Quality Control Services.

B. Letter of Certification: The Contractor shall send the Engineer's Letter of Certification to the PETCO Project Manager, and include copies of the letter in the Building Maintenance Manuals. Refer to Section 01340- Submittals and Section 01700- Contract Closeout.

1.07 METAL DECK INSPECTION FOR WELDED METAL DECK FASTENING:

A. If welding is required or indicated on the drawings, then the Contractor shall schedule, pay for and provide a welding inspection and Letter of Certification by a Licensed Professional Engineer.

B. Letter of Certification: The Contractor shall send the Engineer's Letter of Certification to the PETCO Project Manager, and include copies of the letter in the Building Maintenance Manuals. Refer to Section 01340- Submittals and Section 01700- Contract Closeout.

PART 2 PRODUCTS

2.01 METAL DECK UNITS:

A. Design metal deck units in accordance with AISC "Specification for Design of Light Gage Cold Formed Steel Structural Members", with appropriate steel fiber stress and maximum live load deflection limitations.

B. Provide pattern as shown on the drawings, galvanized in accordance with ASTM A446, Grade A, and ASTM A525, designation G60, with properties, shape, pattern, and loading capacities in accordance with the Steel Deck Institute and Factory Mutual.

C. Primer Color: Shop-prime the exposed side of metal decking using one coat of Federal Specification TT-P-636, Color White primer.

2.02 ACCESSORIES:

- A. Provide metal deck fasteners as detailed or specified on the drawings.
- B. Provide accessories specifically designed to be used with metal decking and the uses shown on the drawings, and provide other materials, not specifically described but required for a complete and proper installation, as selected by the Contractor, subject to approval.

PART 3 EXECUTION

3.01 SURFACE CONDITIONS: The Contractor shall examine the areas and conditions under which work of this Section will be provided, shall correct conditions detrimental to the timely and proper completion of the work, and shall NOT proceed until unsatisfactory conditions are corrected.

3.02 INSTALLATION:

- A. Prior to start of installation, verify that beams are in proper alignment and that surfaces are clean for welding. Place each unit on the supporting steel framework; and adjust to final position prior to permanent welding. Align each unit and fasten into final location in accordance with the manufacturer's and SDI's recommended installation procedures as approved.
- B. Install all accessory items in accordance with the manufacturer's recommended installation procedures as approved.

3.03 TOUCH UP PAINTING: Upon completion of installation, and as a condition of acceptance, the Contractor shall visually inspect and identify surfaces where finish was damaged, and touchup paint galvanized surfaces with zinc-rich primer or other galvanized repair paint approved for the purpose, and shall additionally provide touchup paint at adjacent damaged surfaces as required.

END OF SECTION