

SECTION 05250 - METAL JOISTS/METAL DECKING

PART I-GENERAL

1.01 DESCRIPTION

- A. The extent of steel joists, joist girders and metal decking is shown on drawings.

1.02 QUALITY ASSURANCE

- A. Provide joists fabricated in compliance with the Steel Joist Institute (SJI) specifications and load tables for K-Series and KS-Series Open Web Steel Joists. Provide joist girders in compliance with SJI Specifications and Load Tables with G-Series joist girders.
- B. Provide metal deck in compliance with:
 - AISC "Specification for the Design of Cold – Formed Steel Structural Members".
 - AWS "Structural Welding Code".
 - SDI "Design Manual for Floor Decks and Roof DecksProvide roof deck which is listed in "Factory Mutual Approval Guide" for "Class I" fire rated construction.

1.03 SUBMITTALS

- A. Submit shop drawings to Architect of Record.

PART II - PRODUCTS

2.01 JOISTS

- A. Steel: Comply with SJI " Specifications".
- B. Fasteners: ASTM A 325 or A490 structural bolts, nuts and hardened washers.
- C. Steel Primer Paint: Manufacturers standard.

2.02 METAL DECKING

- A. Provide units of size and gauge as required by engineer of record.
- B. Steel for painted metal deck: ASTM A 1008 Grade C.
- C. Steel for galvanized metal deck: ASTM A 653, Structural Quality.
- D. Galvanizing: ASTM A924, G60.
- E. Miscellaneous shapes, extensions, connectors, closure strip, bracing as required by the architect of record.

PART III - EXECUTION

3.01 JOISTS:

- A. Do not start placement until supporting work is in place and secured.
- B. Comply with requirements of architect of record.
- C. Coordinate placement to eliminate conflict with all roof openings.

3.02 METAL DECK

- A. Place on supporting framework, adjust to final position accurately aligned and on proper bearing.
- B. Secure as required by engineer of record.
- C. Provide additional support, closers, etc. at all openings.

3.03 TOUCH-UP PAINT

- A. Touch-up all exposed or abraded joists and metal deck after installation.

END OF SECTION