SECTION 053100

STEEL DECKING

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**NOTE TO SPECIFIER**

*Use this Specification Section for Mail Processing Facilities.*

***This is a Type 1 Specification with completely editable text; therefore, any portion of the text can be modified by the A/E preparing the Solicitation Package to suit the project.***

*For Design/Build projects, do not delete the Notes to Specifier in this Section so that they may be available to Design/Build entity when preparing the Construction Documents.*

*For the Design/Build entity, this specification is intended as a guide for the Architect/Engineer preparing the Construction Documents.*

*The MPF specifications may also be used for Design/Bid/Build projects. In either case, it is the responsibility of the design professional to edit the Specifications Sections as appropriate for the project.*

*Text shown in brackets must be modified as needed for project specific requirements.* *See the “Using the USPS Guide Specifications” document in Folder C for more information.*

*The last date that USPS revised this standard specification section occurs in two places, at the end of this section and in the Table of Contents. If the date in this section matches the date in the Table of Contents, then you are using the latest version. Do not delete or revise the “last revised” date at the end of the section during the development of the Project Manual.*

*The footer in this section should be edited to replace the text, “USPS MPF SPECIFICATION” with the project name, and the blank date in the center should be replaced with the submission date, for interim design reviews, or the issue date of the completed Project Manual.*

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PART 1 – GENERAL

1.1 SUMMARY

A. Steel roof deck, form deck and composite deck.

B. Deck accessories such as metal closure strips, pour stops, cant strips, cover plates, sump pans and closed cell foam rubber flute closures.

1.2 SUBMITTALS

1. Shop Drawings: Required.

1.3 QUALITY ASSURANCE

A. Design Requirements: Steel Deck Institute (SDI) Design Manual for Composite Decks, Form Decks, Roof Decks; and AISI Specification For the Design of Cold-Formed Steel Structural Members.

B. Fabricate and install in accordance with Steel Deck Institute (SDI) standards.

C. Fabricator shall be a member of the SDI.

D. Certify welders employed on work, verifying AWS qualification within previous 12 months.

PART 2 – PRODUCTS

2.1 FABRICATION

1. Non-cellular Decking: Fabricate from structural quality sheet steel.

1. Shop primed underside and phosphatized/uncoated upperside.

1. Span design: Multiple, where possible.
2. Nominal height: 1-1/2 inch 38 mm., fluted profile.
3. Formed sheet width: 24 to 36 inch.
4. Gage: As required by design but not lighter than 22gage.
5. Side joints: Lapped.
6. Composite Deck: Ribbed for improved concrete bond.

1. Galvanized to a minimum G 60 coating weight.

1. Roof Decking – galvanized metal roof deck (G60 coating, minimum).
2. Shop/Factory finishing: Galvanized to a minimum G 60 coating weight.

2.2 FIELD QUALITY CONTROL

A. Field Tests: If required by State and local code.

B. Field Inspection: As required by code but not less than the following:

1. Select 6 random sheets for each type of deck used. Inspect for deck thickness, type, and material.

2. Inspect 10 percent of deck welds over entire roof area for quality, size and spacing.

3. Inspect 10 percent of side lap connectors over entire roof area for quality, type, size, and spacing of side lap connectors.

PART 3 – EXECUTION

3.1 Install all products in accordance with manufacturer’s guidelines and printed instructions.

END OF SECTION

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