

## CHAPTER 5C

STEEL ROOF DECKING5C-01. GENERAL

For permanent construction, except family housing, steel roof decking with board-type insulation or underlayment is most commonly used as the roof deck system. Steel roof decking is usually formed in U, shapes with various depth and rib spacing profiles from 22 gage (0.0295) sheets. Steel decking is delivered either galvanized or with manufacturers standard shop coat paint. Fire resistance ratings for steel roof decking assemblies are discussed in Chapter 7D, ROOFING. Steel forms remaining in place for lightweight concrete roof decks are discussed in Chapter 3A, CONCRETE FOR STRUCTURES.

5C-02. SUBMITTALS

a. Since you must use the shop drawings in your quality assurance duties check them for completeness and accuracy and determine that there are no conflicts with the plans and specifications.

b. Check to see that the design computations for the structural deck have been received and approved. The Steel Deck Institute (SDI) certification of design may substitute for the actual design computations.

c. The above items, any samples required and the installation procedures will be available before the preparatory inspection held by the QC person.

5C-03. STORAGE

a. Check material for damage on delivery.

b. Check for ventilated storage and units shall be elevated at one end. Touch up abraded surfaces.

5C-04. INSTALLATION PROCEDURES

a. You should have a copy of the SDI Design Manual for Floor Decks and Roof Decks. This information together with that in the contract specification should be reviewed.

b. For welded attachment check on welder qualification. Welder should demonstrate satisfactory welds before beginning actual installation.

c. Special tools are used with screw type fasteners. Tools and operators shall be checked for safety compliance.

d. Screw type fasteners are not permitted in high wind velocity areas of seismic zones or greater.

e. Spacing of fastners should be shown on shop drawings. Check this with SDI manual spacing.

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f. Check for damaged units or accessories. Deck units are minimum 22 gage (0.0295 inch) thickness. Most accessories require increased thickness. Check the specifications.

g. Burn holes from weld fastening is cause for rejection. On occasions, holes have even been burned into supporting bar joists.

h. Welded areas shall be painted. Use same type as for actual shop coat. Use high zinc dust paint for touch up on galvanized surfaces.

i. Check holes and openings in the deck for required reinforcing members. These details should be on the shop drawings.

j. Closure plates may be required at tops of interior walls and partitions.