Form Deck User Guidelines

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Form Deck Installation

CSM Steel Form Deck shall be installed by qualified and experienced workers. Beginning at the corner of building place deck sheets end to end maintaining alignment.

Place sheets with edges up and ends lapped a minimum of 2" over supports. When one row is placed begin another, lapping side laps one-half corrugation and making alignment adjustments when necessary. A snap chalk line should be used at reasonable multiples for proper alignment. All sheets are furnished with square ends. All cutting and fitting shall be done in the field by the deck erector. All openings such as those required for stack, conduits, plumbing, vents, etc., shall be cut (and reinforced, if necessary) by trades requiring the openings.

Attachment

Deck sheets shall be attached at the end of each working day. Electric arc welding is the most popular method for attaching CSM Form Deck to structural supports. Welder should follow close to the placement crew.

All welds are to be made from the top of the deck through the bottom flange of the rib, penetrate and attach all thickness of material to the structural supports. Welds shall be through CSM welding washers for Form Deck sheet design thickness less than 0.028". Care shall be exercised on the selection of the electrodes to provide positive attachment and to prevent high amperage blow holes.

Minimum welding attachments are as follows:

End Laps: Ends of Form Deck are fastened using a weld at each side lap plus one intermediate weld (3 per sheet).

Intermediate Supports: Fasten sheet at side laps only at each intermediate support for spans up to 4'-6"; for spans from 4'-6" to 8'-0", fasten at side laps and one at mid sheet.

All Supports: If spans exceed 8'-0", weld should be placed so that the average spacing (at all supports) is not more than 15" on center.

Mechanical fasteners (screws, powder-actuated and pneumatically driven fasteners) are recognized as viable anchoring methods providing the type and spacing of said fasteners satisfies the design criteria. Documentation in the form of test data, design calculations or design charts should be submitted by the manufacturer to the architect on the basis for obtaining approval.

Site Storage

Deck not promptly erected shall be stored off the ground with one end elevated and protected from the elements with a tarpaulin or other weather-proof covering, ventilated to avoid condensation. Reference SDI Manual of Construction Site Storage and Protection.

Construction Loading

Do not use unfastened deck as a work or storage platform. Deck areas subject to heavy or repeated traffic, concentrated loads, impact loads, wheel loads, etc., shall be adequately protected by planking of adequate stiffness to transfer loads to the steel deck without damaging the deck. Care must be exercised when placing concrete so that the deck will not be subjected to any impact that exceeds the design capacity of the deck. Concrete shall be placed from a low level in a uniform manner over the supporting structure and spread toward the center of the deck span.

Protective Coating

All steel to be used in CSM steel form deck will be galvanized or uncoated. Uncoated steel must not be used in roof applications. Galvanized steel in G-60 or G-90 coating is to be used in roof applications or in high moisture atmospheric conditions.

CSM shall not be responsible for the cleaning of the underside of the steel roof deck to ensure bond of the sprayed-on fireproofing. Adherence of fireproofing material is dependent on many variables. The adhesion or adhesive ability of fireproofing material is the responsibility of the fireproofing applicator and fireproofing manufacturer.