



Roof Deck Installation

CSM steel roof deck shall be installed by qualified and experienced workers. Roof deck panels shall be placed in accordance with approved erection drawings. End laps shall be a nominal 2" and positioned over supports. A snap chalk line shall be used at reasonable intervals to assure proper alignment of deck panels.

Position the first sheet as noted on the drawing with the upstanding leg of the sheet away from the wall. Overlap roof deck sheets end to end maintaining alignment. When one row is placed end to end, begin another, making alignment adjustments if necessary. Do not use unfastened deck as a work or storage area.

All sheets are furnished with square ends. All openings in the roof deck which are shown on the erection drawings and which are less than 25 square feet in area, as well as skew cuts, shall be field cut by the deck erector. Openings not shown on the erection drawings such as those required for stack, conduits, plumbing, vents, etc., shall be cut (and reinforced if necessary) by the trades requiring the openings.

Attachment

Roof deck sheets shall be attached as soon as possible after placement and all sheets placed shall be attached at the end of each working day. Electric arc welding is the best and most economical method for attaching Wheeling steel roof deck to structural supports. Welder shall follow close to the placement crew.

All welds are to be made from the top of the deck down through the bottom flange of the ribs. Welds shall penetrate and attach all thicknesses of material to the structural supports. Care shall be exercised on the selection of the electrodes to provide positive attachment and to prevent high amperage blow holes. Puddle welds shall be at least 5/8" diameter or elongated puddle welds with an equal perimeter. Fillet welds, when used, shall be at least 1" long. Roof deck shall be welded to structural supports with the following pattern:

1-1/2" Deck – Ends of deck to be welded to supports at 12 inches on center maximum and 18 inches on center maximum at intermediate supports.

3" Deck – Deck to be welded to all supports at 8 inches on center.

4-1/2", 6", 7-1/2" Deck – Deck to be welded to all supports at 12 inches on center.

Various mechanical fastening systems other than welding are recognized as viable anchoring methods provided that they are reviewed, approved or specified by the project designer. These include but are not limited to screws, powder-activated or pneumatically driven fasteners.

When spans exceed 5'-0", side laps shall be fastened together at a maximum spacing of 36 inches on center.

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.

Protective Coating

All steel to be used in CSM steel roof deck shall be galvanized or given a protective shop coat of primer paint. The paint coating is considered only a primer and is intended to protect the steel for only a reasonable period of time exposed to normal atmospheric conditions and shall be considered an impermanent and provisional coating. Galvanized finish in G-60 or G-90 coating is desirable in high moisture atmospheric conditions.

CSM Products & Solutions 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.