

GAYLOR®

EMT OR MC CABLE INSTALLED NEXT TO ROOF DECK

Per NEC 2008

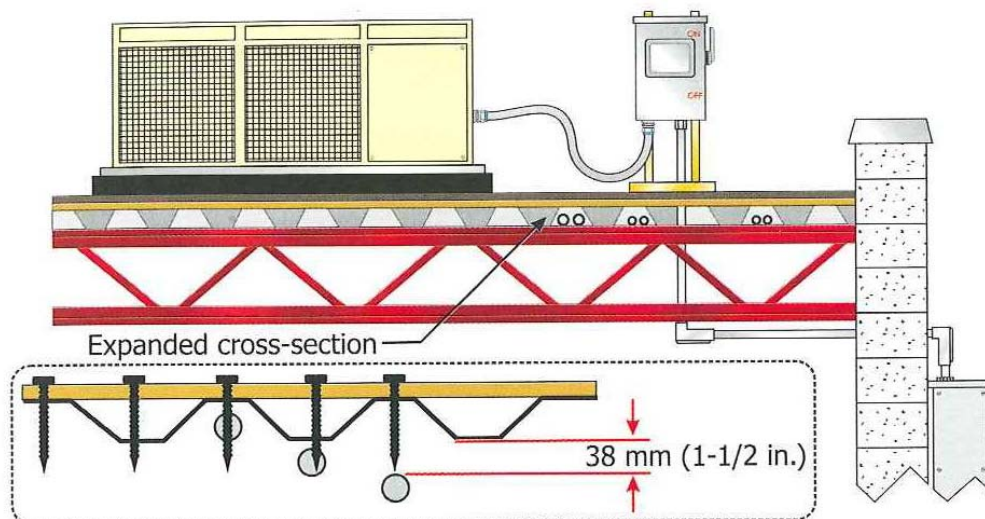
300.4 (E) Cables and Raceways Installed Under Roof Decking. A cable- or raceway-type wiring method, installed in exposed or concealed locations under metal-corrugated sheet roof decking, shall be installed and supported so the nearest outside surface of the cable or raceway is not less than 38 mm (1½ in.) from the nearest surface of the roof decking.

FPN: Roof decking material is often repaired or replaced after the initial raceway or cabling and roofing installation and may be penetrated by the screws or other mechanical devices designed to provide “hold down” strength of the waterproof membrane or roof insulating material.

Exception: Rigid metal conduit and intermediate metal conduit shall not be required to comply with 300.4(E).

It is no longer permissible to install EMT or MC cable on top of the bar joists in the cavity of the roof deck.

300.4(E) Raceways Installed Under Roof Decking



Cable- or raceway-type wiring method, installed in exposed or concealed locations under metal-corrugated sheet roof decking, shall be installed and supported so the nearest outside surface of the cable or raceway is **not less than 38 mm (1-1/2")** from the nearest surface of the roof decking.

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As a result of this change fastening boxes or fixtures directly to the roof decking will no longer be practical as the spacing will not be able to be maintained for the raceway entering it. This requirement would not apply if there were concrete poured on the decking above.

The reasoning for this change is to protect conduit and wiring from being damaged by roofing fasteners both during the initial roof installation and any maintenance, repair or re-roofing in the future.

We need to look for ways to suspend the wiring while maintaining the 1 ½" clearance from the deck specified.

One possible solution is to fasten the raceway or cables to the lower chord of the joist or to use a support such as this hanger by Arlington.



The interpretations expressed are those of the author and are intended to be a guideline only. They are based on the references listed. It is the responsibility of the reader to be sure this complies with the codes, standards, and specifications applicable to any given situation. Compliance with codes, standards, and specifications is the responsibility of the installer. Final interpretation is up to the local authority having jurisdiction.

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