

Fig. 109A - Concrete Deck Insert

Size Range — 3/8" thru 7/8" rod

Material — Carbon Steel

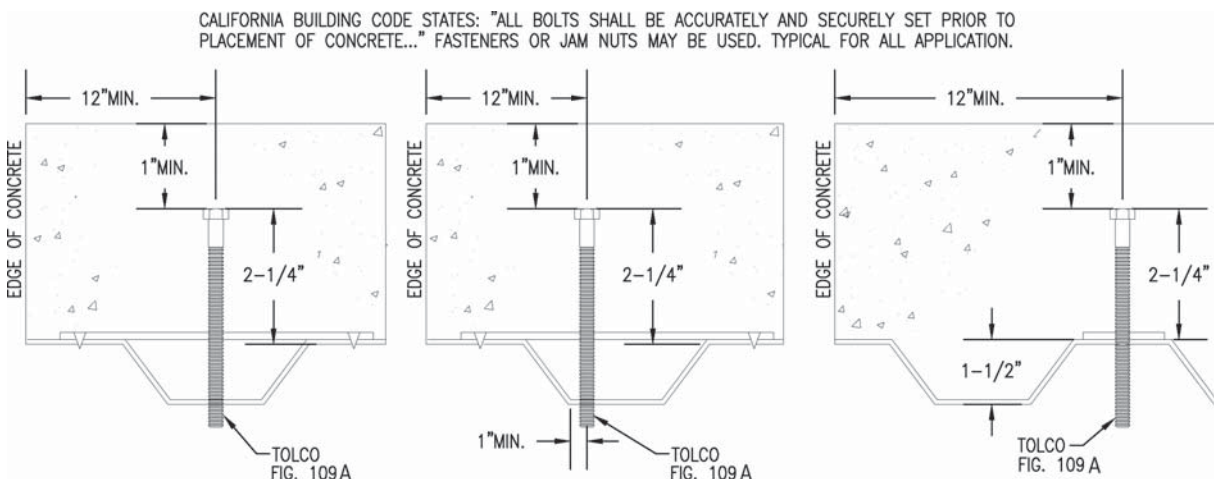
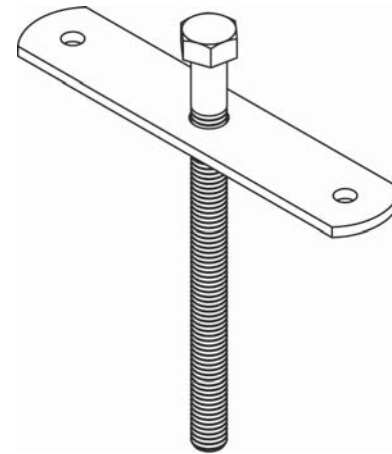
Function — For use in metal deck formed concrete to attach hanger rods. Allows for pre-positioning of hanger rods in poured concrete decks.

Approvals — 3/8" - 5/8" rod size is Underwriters' Laboratories listed in the USA (**UL**) and Canada (**cUL**). Included in our Seismic Restraints Catalog approved by the State of California Office of Statewide Health Planning and Development (**OSHPD**). For additional load, spacing and placement information relating to OSHPD projects, please refer to the TOLCO Seismic Restraints Systems Guidelines. Hangers certified by a registered professional engineer to conform to Section 6-1.1 of NFPA #13 (1999) and Section 9.1.1.2 of NFPA 13 (2002).

Finish — Plate: Plain Steel. Rod: Electro-Galvanized

Note — Available in HDG finish or Stainless Steel materials.

Order By — Figure number, rod size and finish. Custom rod lengths are available. Consult factory.



Spacing/Load Chart for 3000 PSI Light Weight Concrete over 20 GA Steel Deck

| Rod Size | Max. Pipe Size | Max. Hanger Spacing | Max. Rec Loads |
|----------|-----------------|---------------------|----------------|
| 3/8 | 4" | 15'-0" | 1144 |
| 1/2 | 8" | 15'-0" | 1158 |
| 5/8 | Consult Factory | Consult Factory | 1430 |
| 3/4 | Consult Factory | Consult Factory | 2000 |
| 7/8 | Consult Factory | Consult Factory | 2000 |

Max. Rec. Loads shown include safety factory of 5.

NOTES:

1. Mounting holes are standard. If the plate is not mechanically secured to the deck ribs, a jam nut is required to prevent the anchor bolt from laying over when concrete is poured.
2. Minimum spacing between inserts shall be not less than 4½" for 3/8" and 6" for 1/2"