

Component of State of California OSHPD Approved Seismic Restraints System



## Fig. 109AF - Concrete Insert

**Size Range** — 3/8" thru 7/8" rod

**Material** — Carbon Steel

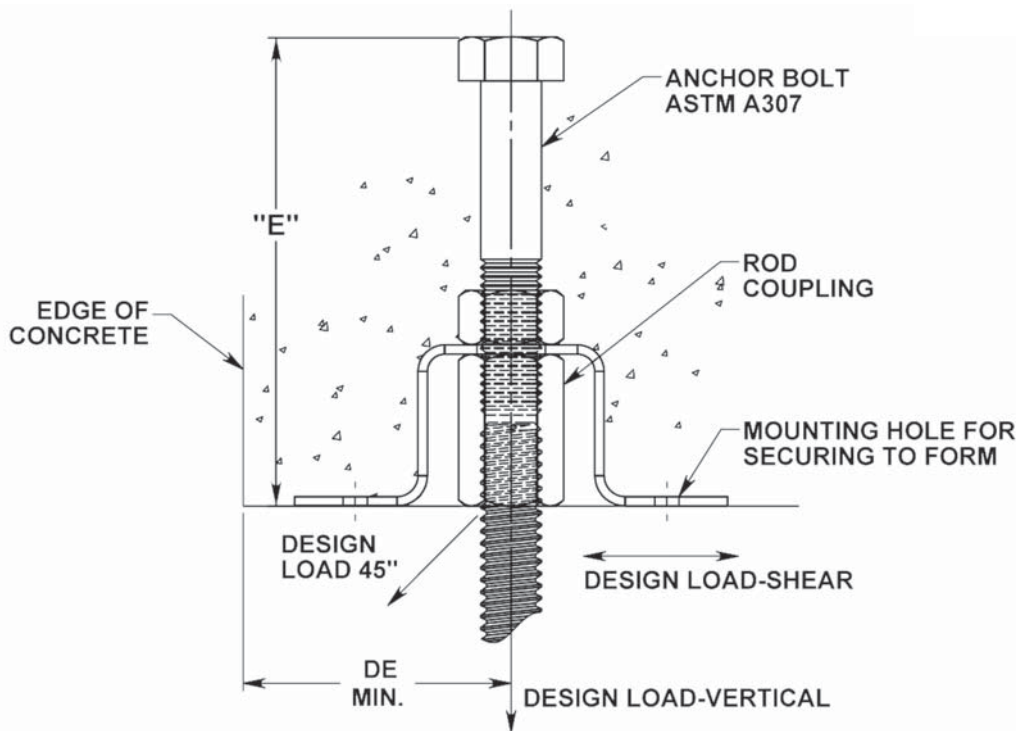
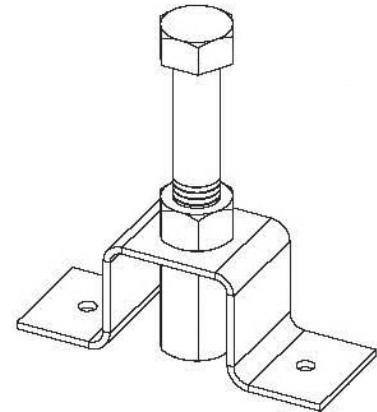
**Function** — Designed to be embedded in concrete to provide a point of support.

**Approvals** — Underwriters' Laboratories listed in the USA (**UL**) and Canada (**cUL**) for 3/8" and 1/2". 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 Restraint Systems Guidelines.

**Finish** — Plain anchor bolt with Electro-Galvanized hardware and plate.

**Order By** — Figure number, rod size and finish.

**Note** — The Hex or Jam Nut has NO value in determining the loads. Their function is to assist in locking the Coupling snug to the bottom of the deck form preventing the concrete from leaking into the coupling threads. Any other suitable locking device may be substituted if desired.



### Dimensions

| Rod Size | Design Load Vertical |         | Design Load Shear |         | Design Load 45° |         | "E" Embedment Depth | De min. (in.) |
|----------|----------------------|---------|-------------------|---------|-----------------|---------|---------------------|---------------|
|          | Hard Rock            | Lt. Wt. | Hard Rock         | Lt. Wt. | Hard Rock       | Lt. Wt. |                     |               |
| 3/8      | 1255                 | 735     | 978               | 733     | 777             | 525     | 3½                  | 2             |
| 1/2      | 2321                 | 1392    | 978               | 733     | 980             | 679     | 3½                  | 2             |
| 5/8      | 780                  | 468     | 1278              | 958     | 688             | 445     | 4                   | 2             |
| 3/4      | 1346                 | 806     | 1278              | 958     | 927             | 619     | 4                   | 2½            |
| 7/8      | 2321                 | 1392    | 1278              | 958     | 1166            | 803     | 4                   | 6             |