

# TOLCO™ Fig. 109DD – Powers DDi+™ Concrete Deck Insert with ICC-ES Approval

Notice of part number change effective 11/1/17. Fig 109DD replaces Fig 109A. The Fig 109A has been discontinued.

**Size Range:** 3/8" diameter through 7/8" diameter

**Material:** Plain Steel

**Function:** For use in concrete-filled metal deck assemblies (i.e. "pan-deck", "Q-deck") applications. After installation, the threaded male hanger of the insert protrudes below the surface of the deck. The threaded bolt offers adjustability for precise height requirements and guarantees the minimum embedment depth. The longer "T" brace enables a variety of installation locations in across the deck.

**Approvals:**

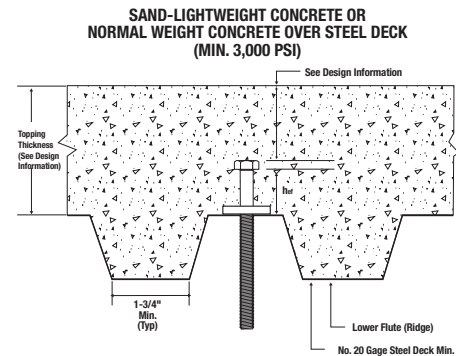
- International Code Council, Evaluation Service (ICC-ES), ESR-3958 for concrete, for 3/8" thru 5/8" anchor sizes. Approved for seismic and wind loading.
- Underwriters Laboratories (UL Listed) - File No. EX1289.
- FM Approvals (Factory Mutual) – File No. J.I. 3059197
- Code compliant with the 2015 IBC, 2015 IRC, 2012 IBC, 2012 IRC, 2009 IBC, and 2009 IRC and applicable for NFPA 13

Catalog no.	Description	Anchor size
Fig. 109DD-3/8	Fig. 109DD-3/8 ICC Approved Threaded Insert for Metal Deck	3/8" Metal Deck Insert
Fig. 109DD-1/2	Fig. 109DD-1/2 ICC Approved Threaded Insert for Metal Deck	1/2" Metal Deck Insert
Fig. 109DD-5/8	Fig. 109DD-5/8 ICC Approved Threaded Insert for Metal Deck	5/8" Metal Deck Insert
Fig. 109DD-3/4	Fig. 109DD-3/4 ICC Approved Threaded Insert for Metal Deck	3/4" Metal Deck Insert
Fig. 109DD-7/8	Fig. 109DD-7/8 ICC Approved Threaded Insert for Metal Deck	7/8" Metal Deck Insert

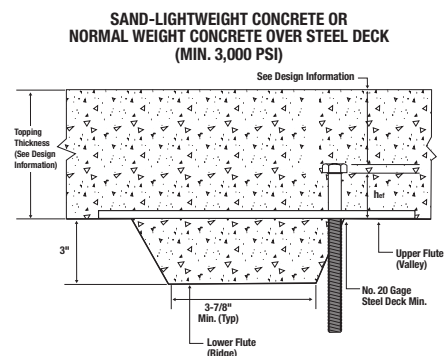
For technical information please visit [Eaton.com/TOLCO](http://Eaton.com/TOLCO)



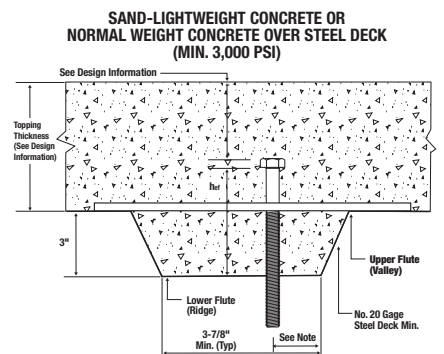
**Figure A**  
DDi+ Concrete Inserts Installed Through the Soffit of Concrete-Filled Steel Deck Floor and Roof Assemblies (Over Upper Flute)<sup>1,2,3</sup>



**Figure B**  
DDi+ Concrete Inserts Installed Through the Soffit of Concrete-Filled Steel Deck Floor and Roof Assemblies (Over Flute Incline)<sup>1,2,4</sup>



**Figure C**  
DDi+ Concrete Inserts Installed Through the Soffit of Concrete-Filled Steel Deck Floor and Roof Assemblies (Over Lower Flute)<sup>1,2,5</sup>



**Eaton**  
1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
Eaton.com

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