

# HECKMANN BUILDING PRODUCTS INC.

1501 N. 31<sup>st</sup> Avenue

Melrose Park, IL 60160-2911

800-621-4140 FAX: 708-865-2640

www.heckmannanchors.com

## #106 DOVETAIL CORRUGATED ANCHORS

**SIZE:** Anchors tested were 3-1/2" (88.9mm) long from the face of the concrete x 1" (25.4mm) wide Mill galvanized Sheet Steel conforming to ASTM A 527 G90 for 16 gage and ASTM A 526 G90 for 12 gage.

**APPLICATION:** Anchors are installed in Dovetail Anchor Slots which are cast into concrete columns or walls. Usual installation is 16" (406.4mm) o.c. vertically.

**TEST CONDITIONS:** Anchors were embedded 2-3/4" (69.85mm) deep in the horizontal joint between two common bricks with Type N Mortar mixed 3-1 ratio and allowed to stand over 28 days (Approximately 3500 psi). Mortar joints were approximately 5/8" (15.87mm) with the anchors centered in the joints permitting mortar on both sides of the anchor corrugation. The samples were tested to failure at a crosshead speed of 0.5"/minute (12.7mm/minute).

### PULLOUT OF CORRUGATED SECTION FROM BRICKS

TEST RESULTS	12 GAGE ANCHORS		16 GAGE ANCHORS	
	NO. ANCHORS TESTED	AVERAGE PULLOUT	NO. ANCHORS TESTED	AVERAGE PULLOUT
	6	1,479 LBS	5	1,194 LBS

#### 12 Gage Anchors

In all cases the force increased to the maximum limit at which the anchors began to pullout, and the bricks separated along the mortar joints. The maximum forces were: 1,198 lbs., 1,450 lbs., 1,344 lbs., 1,474 lbs., 1,788 lbs., and 1620 lbs.

#### 16 Gage Anchors

Failure was the same as with the 12 gage anchors. The maximum forces were: 846 lbs., 1,050 lbs., 1,448 lbs., 1,374 lbs., and 1,254 lbs.

