

HECKMANN BUILDING PRODUCTS INC.

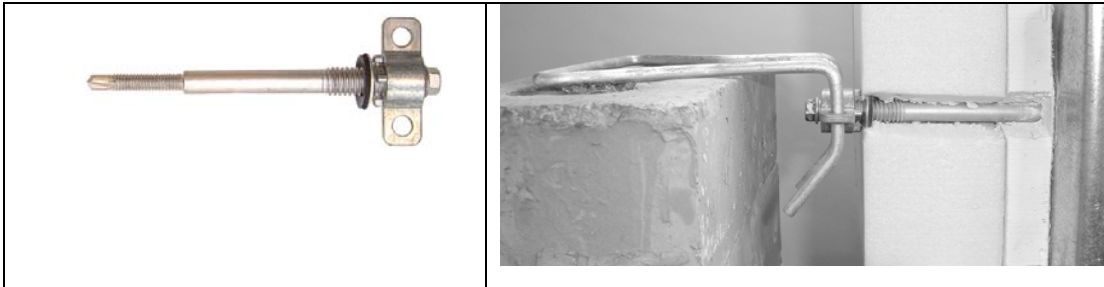
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#77 WING NUT POS-I-TIE® TEST DATA



Tests were performed in accordance to ASTM E754.

ZINC WING NUT SCREWS AND HOTDIP WIRE TIES

Tension tests:

Wire Tie: Five samples were set in a mortar joint between two standard size bricks. Mortar was Type S cured for 28 days with a compressive strength of 5,480 psi at the time of testing. The bond between the brick and the mortar was the failure mode in all five cases. The average failure mode was 813 pounds.

Wing Nut Screws: Five samples were drilled into a 16 gage metal stud. The wire tie was inserted into the wing nut and pulled to failure. The pullout of the screw from the metal stud was the failure mode in all five cases. The average failure mode was 595 pounds.

Average Tension Failure Load 595 pounds.

Compression Tests:

5 samples were prepared in the same manner as the tension tests. The bond between the brick and the mortar was the failure mode in all 5 cases. A 2" airspace was used.

Average Compression Failure Load 803 pounds.

STAINLESS SCREW BARREL WITH PLASTIC WING NUT

Five plastic wing nuts were exposed to a high alkaline environment (calcium hydroxide solution pH 13) for 2,000 hours prior to testing. The screws were drilled into a 16 gage metal stud. The wire tie was inserted into the wing nut and pulled to failure. The pullout of the screw from the metal stud was the failure mode in all five cases. The average failure mode was 780 pounds.

Average Tension Failure Load 780 pounds.