

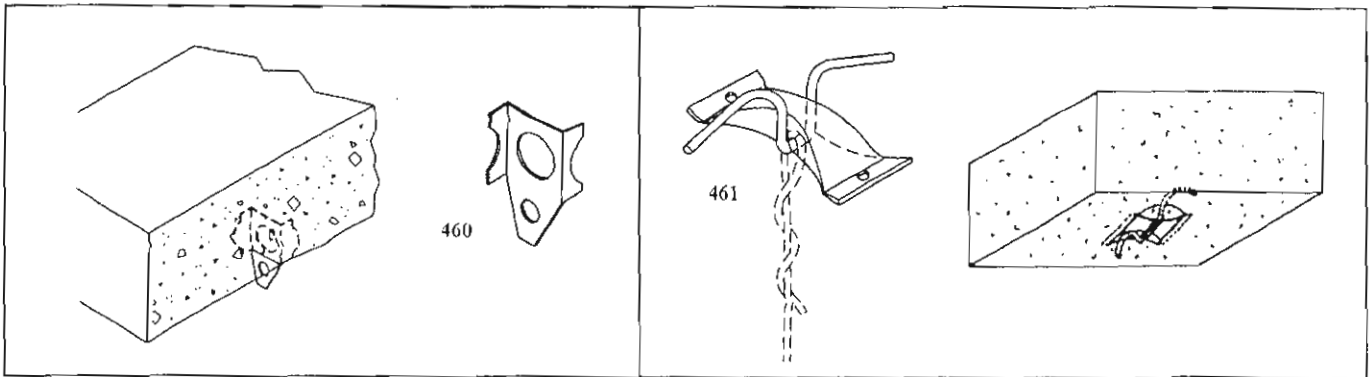
## #460 NAILER CEILING INSERTS

**SIZE:** Inserts are 2-3/16" (55.563mm) long x 1" (25.4mm) wide, made from Mill Galvanized steel conforming to ASTM A 653 CQ.

**APPLICATION:** The insert is driven into the wood form wherever a hanger is required. When the form is removed, the blade, which has a 5/16" (7.94mm) diameter hole, will project below the concrete to receive a pencil rod or wire.

**TEST CONDITIONS:** Inserts were cast into concrete slabs 8" (203.2mm) x 10" (254mm) x 3" (76.2mm) deep made of Portland Cement Type 1 3-1 ratio allowed to set over 28 days. The inserts were centered in the slab. A 5/16" (7.94mm) bolt was placed through the hole in the insert and attached to the crossram of the test machine. Samples were tested to failure at a crosshead speed of 0.5"/minute (12.7mm/minute).

3 INSERTS TESTED      AVERAGE PULLOUT 1,259 lbs.



## #461 CEILING HANGER INSERTS

**SIZE:** 3/16" (4.763mm) round galvanized wire loop with a 26 gage Mill Galvanized shell. The wire loop is 1-1/2" (38.1mm) high with 3-5/8" (92.08mm) spread, and the hanger opening of the loop inside the shell is 5/8" (15.875mm) wide x 3/8" (9.525mm) high. The shell is 1-3/4" (44.45mm) wide at the ends, 2-3/4" (69.85mm) long and 11/16" (17.463mm) high in the center.

**APPLICATION:** Used for hanging suspended ceilings, ductwork, plumbing, light fixtures, etc. in new construction. The wire loop is inserted into the shell, and the shell is nailed to the concrete form. When the form is removed, the loop is exposed to receive the hanging fixtures. The clearance for hanging is 5/8" (15.875mm) wide x 3/8" (9.525mm) high. Install as needed.

**TEST CONDITIONS:** Each sample was cast into a concrete form 9-1/4" (234.95mm) x 9-1/4" (234.95mm) x 3-1/4" (82.55mm) deep. Concrete mixture was Portland Cement Type I at a 3-1 ratio allowed to set over 28 days. Samples were tested to failure at a crosshead speed of 0.5"/minute (12.7mm/minute).

3 INSERTS TESTED      AVERAGE PULLOUT 1,905 lbs