

Hilti Pull Test on the Back of City Hall

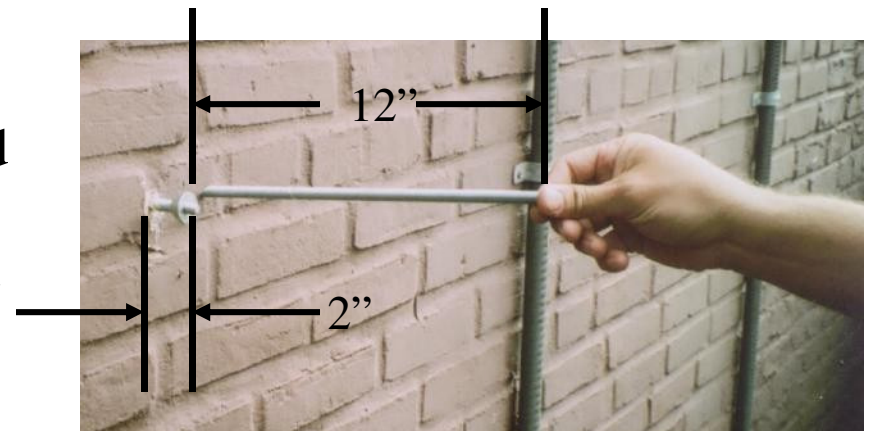


west end



east end

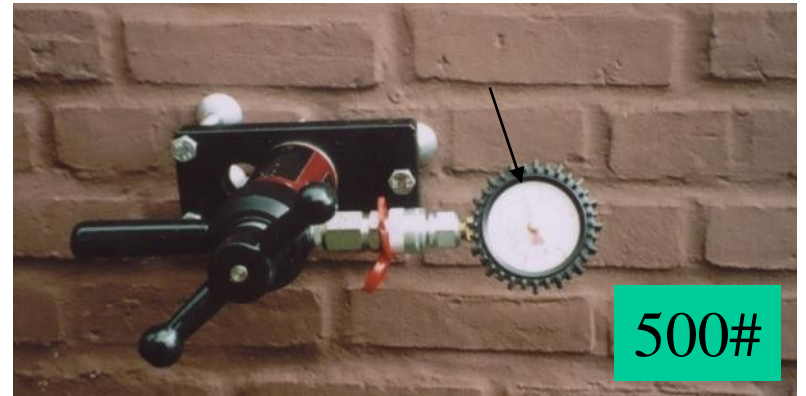
Two Hilti HY150 Max anchors were placed in the back wall. The west anchor was placed in a vertical joint and the east anchor was placed in a horizontal joint. Both anchors are 12 inches long set 10 inches into the wall. This leaves a 2 inch bolt protruding from the wall.





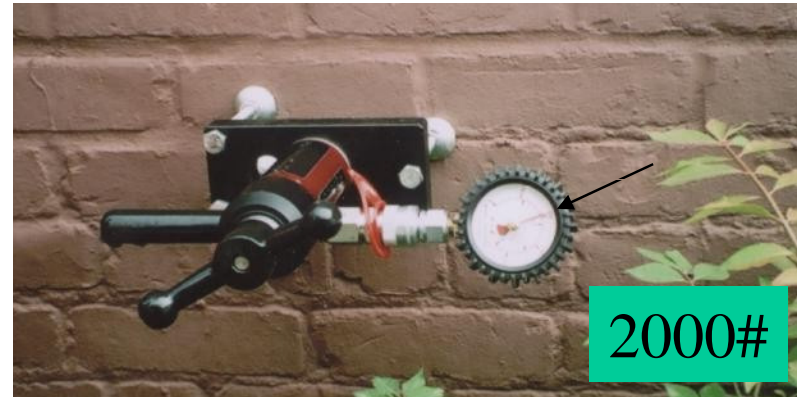
Hilti pull test on west anchor

Todd Hamilton, PE, from Hilti came to the site to perform the pull test. We pulled the west anchor first, stopping three time to take pictures. The west anchor held 2000 pounds of pull with no movement.





Hilti pull test on east anchor



We next pulled the east anchor, stopping twice to take pictures. The east anchor held 2000 pounds of pull with no movement.



Close up picture of west anchor

These pull tests show that we can achieve at least 2000 pounds of pull with Hilti HY150 Max anchors on the back wall of City Hall. The anchors are 12 inches long and set 10 inches into the wall to pick up several courses of brick. The anchors are 3/8 in diameter and fit within the mortar joint of the exterior brick. If the anchors ever needed to be removed, the bolts could be cut/snapped off, ground down, and re-mortared showing no visible damage to the brick.