

416 TESTING OF ANCHORS OR DOWELS.
(REV 11-1-05) (FA 12-27-05) (7-06)

SUBARTICLE 416-6.1 (Pages 385 and 386) is deleted and the following substituted:

416-6.1 Field Testing: Provide a qualified professional Independent Testing Agency to perform field testing of the installed anchors and dowels in accordance with the applicable sections of ASTM E 488 and ASTM E 1512, in the presence of the Engineer. Perform restrained static tension tests to prevent damage to the surrounding concrete. Displacement measurement for field testing is not required. Test individual anchors and dowels by proof loading in tension to 85% of the Specified Bond Strength in Section 937, based on the nominal anchor or dowel diameter and embedment depth, but not more than 90% of the yield strength of the anchor or dowel.

Divide the anchors and dowels into LOTs for testing and acceptance. Each LOT must contain a maximum of 100 anchors or dowels, of the same diameter, embedment length and Adhesive Bonding Material System. Randomly select four of the anchors and dowels in each LOT for testing, except if there are three or less in the LOT, in which case, test all anchors, unless otherwise directed by the Engineer. If three consecutive LOTs have no failing tests, sample the next three LOTs at a 2% rate and if these LOTs have no failing tests, sample at a rate of 1% for the remaining LOTs unless there is a failure; however, regardless of LOT size, sample at less one dowel per LOT. For every failed field test, perform two additional field tests on adjacent untested anchors or dowels within the LOT. Continue additional field tests until no more test failures occur, or all anchors and dowels within the LOT are tested. For the next LOT after a failed LOT, the sampling rate must be 4% but not less than one dowel per LOT and conform to the sampling rate procedure above including rate reductions as appropriate. Determine failure of the field test in accordance with ASTM E 488. Submit certified test reports from the Independent Testing Agency to the Engineer for each LOT.