



5.50 POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE

5.50.1 GENERAL

This policy establishes parameters for allowable applications of post-installed adhesive anchors in concrete. Drill and Bond Dowels (Chemical Adhesive) are designated as post-installed adhesive anchors per AASHTO-CA BDS and ACI 318-14.

5.50.2 POLICY

Post-installed adhesive anchors shall not be used in sustained tension load applications. A sustained tension load is defined as a constant unfactored tensile load exceeding $0.1N_a$ for a single adhesive anchor or $0.1N_{ag}$ for an adhesive anchor group where:

N_a = nominal bond strength in tension of a single adhesive anchor, lb

N_{ag} = nominal bond strength in tension of an adhesive anchor group, lb

Post-installed adhesive anchors shall not be used for cases where the tensile or shear component of the earthquake load (EQ) applied to the anchor exceeds 20 percent of the total EXTREME EVENT I Limit State tensile or shear load.

Post-installed adhesive anchors shall not be located in plastic hinge regions.