



GUIDELINE
**Structural Guideline for Acceptance
of Post-installed Anchors**

April 2008

Background:

The International Code Council (ICC) has removed their prior ICC approvals for the use of post-installed concrete anchors (mechanical or adhesive anchors installed in hardened concrete). ICC legacy reports are no longer valid. New regulations have been developed by ICC and follow recently published acceptance criteria (AC). Post-installed anchors must now be tested in cracked concrete sections for use in areas with high seismic risk. AC 193 for mechanical anchors and AC 308 for adhesive anchors have been published by ICC and provide the current acceptance criteria for testing post-installed anchors.

Currently there are a limited number of products available that have completed their testing and received their approved ICC evaluation report. The new testing criteria has found reductions of up to 75 percent in the capacity of anchors when tested in cracked concrete versus the prior testing in uncracked concrete.

Recommended Acceptance Guideline

The following recommendation will be in effect until December 31, 2008 and will be subject to review at that time.

All post-installed concrete anchors (adhesive and mechanical anchors) with a current ICC evaluation report (i.e. approved for use in cracked concrete) may be used. These products are subject to the conditions in the evaluation report and shall be accompanied by engineering where required by the design of the anchor.

Anchors with no ICC evaluation report for use in cracked concrete may be acceptable if the following criteria are met:

- Testing to the appropriate acceptance criteria (AC 193 or AC 308) has been performed and submitted to the ICC for approval
- The applicant or manufacturer must submit documentation that indicates the anchor is suitable for its proposed use. The documentation submitted shall be prepared by a Structural Engineer licensed in the State of Washington.