



# Department of Building & Fire Prevention Bureau

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## LETTER TO INDUSTRY

**RE: 2012 IBC provisional approval policy for adhesive concrete anchor systems**

### Position Statement:

It shall be acceptable to utilize adhesive concrete anchor systems that have been approved under an Evaluation Report listing for the 2009 International Building Code subject to all of the following limitations:

1. This provisional policy will expire on January 15, 2015
2. When any adhesive system receives an evaluation report demonstrating compliance to 2012 International Building Code requirements for adhesive concrete anchorage, this provisional policy shall no longer be implemented for that system
3. The Engineer of Record for the adhesive anchor design shall provide a design that satisfies these minimum requirements
4. Excludes anchors subject to sustained tension loads
5. Excludes anchors subject to freeze and thaw cycling exposure conditions
6. Excludes anchors installed into damp or saturated concrete
7. Calculations shall otherwise be in accordance with ACI-318-11 (D)

Adhesive concrete anchor systems that fall outside of the limitations set forth in items 4, 5 & 6 above may be considered for review and acceptance on a case by case basis under the Alternate Materials and Methods of Construction provisions within the 2012 International Building Code. In such cases it will be the responsibility of the Engineer of Record for the adhesive concrete anchor design and the adhesive system manufacturer to provide suitable evidence of compliance to the provisions of ACI 318-11 Appendix D and ACI 355.4-11.

### Rationale:

The 2012 International Building Code (through referenced documents ACI 318-11 and ACI 355.4-11) requires that adhesive concrete anchor systems be qualified/assessed in order to establish requisite design parameters. The process of qualifying adhesive concrete anchor systems was addressed in prior code editions via Acceptance Criteria AC308. Under the 2012, IBC qualification requirements are mostly identified under ACI 355.4-11. AC308 was modified

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in mid 2013 to address new requirements found in ACI 355.4-11. The relatively recent issuance of these modifications appears to have somewhat delayed the qualification process and there are not the qualification process and there are not currently any adhesive concrete anchor systems with an approval based on the requirements of the 2012 IBC.

It is recognized that the new qualification/acceptance requirements of ACI 355.4-11 may impact the calculated capacities of adhesive concrete anchors. It is anticipated that manufacturers will have completed the requisite qualification testing and have evaluation reports demonstrating compliance to the 2012 IBC no later than January 15, 2015. It is understood that adhesive concrete anchors have been utilized successfully under the provisions of the 2009 IBC. This provisional policy is issued on an interim basis to allow the continued use of these products until the required testing can be completed.

If you have any questions regarding this provisional policy, please contact Werner K. Heller, P.E. at 702-455-8095.