

Anchorage to Concrete

In-House Seminar

ONE DAY, 7.5 HOURS (7.5 PDHs/0.75 CEUs)

Design structural connections to concrete and use the anchor design provisions of ACI 318.

Who should attend: Engineers, architects, specifiers, and building officials.

Program Content:

Basic ACI Design Framework for Anchorage to Concrete

- Designing cast-in and post-installed mechanical and adhesive anchors by ACI 318, Chapter 17
- Automatic qualification of most cast-in mechanical anchors
- Qualification of post-installed mechanical and adhesive anchors by ACI 355.2 and 355.4
- Adhesive anchor provisions under development

Background of ACI 318, Chapter 17

- Behavior of anchors in tension and shear (yield and fracture, concrete breakout, pullout, pryout)
- Influence of adjacent edges and anchors
- Influence of cracking
- Behavior of anchors under combinations of tension and shear
- Behavior of complex connections (determination of anchor forces) seminar topics

Example Problems by ACI 318, Chapter 17

- Single anchors in tension
- Effects on tensile anchors of edge distance, adjacent anchors, and cracking
- Single anchors in shear
- Effects on shear anchors of edge distance, adjacent anchors, and cracking
- Single anchors under combined tension and shear
- Designing and detailing

Background of ACI 355.2 (Qualification of Post-Installed Mechanical Anchors in Concrete) and ACI 355.4 (Qualification of Post-Installed Adhesive Anchors in Concrete)

Instructors:

Two industry experts will present this seminar.

Handouts:

Up to 40 printouts of the presentation included. Additional copies can be purchased.

- Excerpts from ACI 318-19: Chapters 2 and 17
- Special handouts with notes and design examples from Reinforced Concrete Design Handbook, SP-17(14)

Related Documents:

To expand attendees knowledge, ACI In-House Seminar customers may purchase multiple copies of related documents at 50% off the regular price.

- Qualification of Post-Installed Mechanical Anchors in Concrete and Commentary (ACI 355.2)
- Qualification of Post-Installed Adhesive Anchors in Concrete and Commentary (ACI 355.4)

ACI is an approved education provider for AIA and ICC.



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