RISA Webinar

Exploring Anchor Bolt Pullout with RISABase

Presenter: Matt Brown, P.E.
RISABase Version 2.0.3

LATEST VERSION
- First Released: 1998
- Finite Element Analysis
- Biaxial Analysis, Optimization
- Custom Anchor Placement
- ACI-318, Appendix D
- Seven Failure Modes
- Individual vs. Group Failure
Tensile Failures

- Anchor Bolt Steel
- Concrete Breakout (Cone)
- Anchor Bolt Pullout
- Side-Face Blowout
Shear Failures

- Anchor Bolt Steel
- Concrete Breakout (Cone)
- Anchor Bolt Pryout
Anchor Bolt Steel (Nsa)

ANCHOR BOLT FAILURE MODES
Concrete Breakout (Ncb)

ANCHOR BOLT FAILURE MODES
Anchor Bolt Pullout (Npn)

ANCHOR BOLT FAILURE MODES
Side-Face Blowout (Nsb)

ANCHOR BOLT FAILURE MODES
Anchor Bolt Steel (Vsa)

ANCHOR BOLT FAILURE MODES
Concrete Breakout (Vcb)

ANCHOR BOLT FAILURE MODES
Anchor Bolt Pryout (Vcp)

ANCHOR BOLT FAILURE MODES
Group Failure

ANCHOR BOLT FAILURE MODES
- 25% Strength Reduction
- Seismic failure must be Ductile
- Ductile: Steel yields first
- Supplemental Reinforcement
Example

- W14x99
- 3-0” x 3’-0” Pedestal
- Dead + Live + Earthquake
- Uniaxial Bending

INTERPRETING RESULTS
Questions?

Please let us know if you have questions.

We will answer as many questions as time permits during the webinar.

Once the webinar is closed, we will post all Q&A’s, as well as the Quick Reference Guide, to our website: www.risatech.com

For further information, contact us at: info@risatech.com

Thank you for Attending!