ACI Committee Document
Abstracts

The following ACI documents are, or will soon be, available:

"Assessing Combined Aggregate Gradings—Guide (PRC-211.10-24)"

Reported by ACI Committee 211, Proportioning Concrete Mixtures

Ezgi Wilson*, Chair; Michael A. Whisonant, Secretary; Kamran Amini, William L. Barringer, Katie J. Bartojay, Muhammed P.A. Basheer, James C. Blakenship, Casimir J. Bognacki, Peter Bohme, Anthony J. Candiloro, Ramon L. Carrasquillo, Bryan R. Castles, Teck L. Chua, John F. Cook, Kirk K. Deadrick, Bernard J. Eckholdt, Joshua J. Edwards, Timothy S. Folks*, David W. Fowler, Brett A. Harris, G. Terry Harris, T.J. Harris, Lance S Heiliger, Richard D. Hill, David L. Hollingsworth, Tarif M. Jaber, Robert S. Jenkins, Joe Kelley, Gary F. Knight, Eric P. Koehler*, Frank A. Kozeliski, Robert C. Lewis, Tyler Ley‡, John J. Luciano, Darmawan Ludirdja, Allyn C. Luke, Kevin A. MacDonald, Ed T. McGuire, Karthik H. Obla, H. Celik Ozyildirim, James S. Pierce, Steven A. Ragan, G. Michael Robinson, James M. Shilstone*, and Lawrence L. Sutter, Members; Patrick J. Harrison, Co-Chair; Mohamadreza Moini, and Hadi Rashidi, Additional ACI 211-I Subcommittee Members; Donald E. Dixon, Said Iravani, James N. Lingscheit, Royce J. Rhoads, and Ava Shypula, Consulting Members.

*Also Member of ACI 211-I Subcommittee.

‡Chair of Subcommittee ACI 211-I.

Special acknowledgment to D. Cook for his contributions to this guide.

Abstract: This guide provides background and examples for the use of practical aggregate grading tools to improve aggregate performance in concrete and allow the paste content of a concrete mixture to be reduced while achieving satisfactory workability and physical properties. The aggregate grading of a concrete mixture impacts the workability, durability, strength, and sustainability of concrete. These grading tools can also be used to proportion concrete mixtures as well as troubleshoot issues associated with mixtures from high to low workability. This guide does not make recommendations, but it does describe and give examples on how to use these tools.

"Concrete Parking Lots and Site Paving—Specification (ACI SPEC-330.1-24)"

Reported by ACI Committee 330, Concrete Parking Lots and Site Paving

Christopher R. Tull, Chair; Jason D. Wimberly, Secretary; Daniel T. Biddle, Bryan M. Birdwell, Jacob L. Borgerson, David W. Buzzelli, Michael W. Cook, Tim Cost, Anthony R. DeCarlo, Norbert J. Delatte, Bruce A. Glaspey, R. Scott Haislip, Myron J. Hillock, Amanda H. Hult, Frank A. Kozeliski, Jesse L. Long, Steven L. Mallicoat, Tim I. Manherz, Feng Mu, Nigel K. Parkes, Jan R. Prusinski, David Richardson, Peter J. Ruttura, Scott M. Tarr, Eduardo G. Tartuce, Robert L. Varner, and Steven M. Waalkes, Members; Jerry A. Holland, Jon I. Mullarky, David M. Suchorski, and Eldon G. Tipping, Consulting Members.

Abstract: This reference specification for the architect/engineer can be applied to projects providing minimum requirements for construction of concrete parking lots and site paving by citing it in the project specification. A mandatory requirements checklist and an optional requirements checklist are provided to assist the architect/engineer in supplementing the provisions of this specification as required or needed by designating or specifying individual project requirements. Included are requirements for submittals, testing and inspection, concrete materials, distributed steel, embedded steel at joints, jointing and sealant material, forms, subgrade preparation, subbase, placing, texturing, curing, jointing, tolerances, and opening to traffic. The materials, processes, quality control measures, and inspection described in this document should be tested, monitored, or performed as applicable only by individuals holding the appropriate ACI certification or equivalent.

"Post-Installed Mechanical Anchors in Concrete—Qualification Requirements and Commentary (ACI CODE-355.2-25)"

Reported by ACI Committee 355, Anchorage to Concrete

Andra Hoermann-Gast, Chair; Jay Dorst, Vice Chair; John F. Silva, Vice Chair; Neal S. Anderson, Jacques A. Bertrand, T.J. Bland, Rachel Chicchi Cross, Rolf Eligehausen, Werner A.F. Fuchs, Brian C. Gerber, Jan Erich Hofmann, Chiwan Wayne Hsieh, Amy S. Kolczak, Thomas A. Kolden, Anthony J. Lamanna, Giovanni Muciaccia, Daniel T. Mullins, John E. Pearson, Marlou B. Rodriguez, Milton Rodriguez, Peter C. Schillinger, Howard Silverman, Luke Tavernit, Jason H. Wagner, and Roman Wan-Wendner, Members; Peter J. Carrato, Ronald A. Cook, Branko Galunic, Neil M. Hawkins, Christopher La Vine, Nam-Ho Lee, Lee W. Mattis, Robert R. McGlohn, Donald F. Meinheit, Conrad Paulson, and Dan R. Stoppenhagen, Consulting Members.

Special acknowledgment is given to K. McBride for his contribution to this Code.

Abstract: This Code prescribes testing programs and evaluation requirements for post-installed mechanical anchors intended for use in structural applications addressed by ACI CODE-318 and subjected to static or seismic loads in

tension, shear, or combined tension and shear. Criteria are prescribed for determining whether anchors are acceptable for use in uncracked concrete only, or in cracked as well as uncracked concrete. Performance categories for anchors are established, as are the criteria for assigning anchors to each category. The anchor performance categories are used by ACI CODE-318 to assign capacity reduction factors and other design parameters.

"Service Life Evaluation—Design Specification (ACI CODE-365-24)"

Reported by ACI Committee 365, Service Life Prediction

Kyle D. Stanish, Chair; Jose Pacheco, Secretary; Marwa Abdelrahman, James M. Aldred, Muhammed P.A. Basheer, Evan C. Bentz, Neal S. Berke, Richard Cantin, Larry D. Church, Carolyn M. Hansson, Doug Hooton, Meghdad Hoseini, O. Burkan Isgor, Zoubir Lounis, Matthew A. Miltenberger, Mohamad Nagi, Paul A. Noyce, Karthik H. Obla, Bruce G. Smith, Michael D.A. Thomas*, Wael A. Zatar, and Shengjun Zhou, Members; Antonio J. Aldykiewicz Jr., David G. Manning, Charles D. Pomeroy, Jesus Rodriguez, Paul G. Tourney, Alexander M. Vaysburd, and Yash Paul Virmani, Consulting Members; Dirk Schlicke and Vute Sirivivatnanon, Liaison Members.

*Deceased.

Abstract: This design specification provides minimum requirements for performing a service life evaluation as part of the design process for new structures and implementing the results of the evaluation into the construction phase. This design specification can be used as part of a design-bid-build project, a design-build project, or other project delivery options. The design specification is independent of the specific model or technique used to perform the service life evaluation. Although service life modeling is commonly used to evaluate chloride transport causing corrosion deterioration, the approach outlined in this design specification can be used for any deterioration mechanism that is capable of being modeled. The service life engineer performing the evaluation can either be the prime consultant or a subconsultant. A service life report is produced as part of this specification, documenting the service life evaluation, followed by a service life record report documenting the implementation into the new construction.