

Reported By Aci Committee 371 Aci 371r 16 Concrete

ACI 371R-16 Guide for the Analysis, Design, and Construction of Elevated Concrete and Composite Steel-Concrete Water Storage Tan

This guide presents recommendations for materials, analysis, design, and construction of concrete-pedestal elevated water storage tanks. Both the all-concrete tank and the composite tank, consisting of a steel water storage vessel supported on a cylindrical reinforced concrete pedestal, are included. Concrete-pedestal elevated water storage tanks are structures that present special problems not encountered in typical environmental engineering concrete structures. This guide refers extensively to ACI 350 for design and construction of those components of the pedestal tank in contact with the stored water, and to ACI 318 for design and construction of components not in contact with the stored water. Determination of snow, wind, and seismic loads based on ASCE/SEI 7 is included. These loads will conform to the requirements of national building codes that use ASCE/SEI 7 as the basis for environmental loads or conform to the requirements of local building codes. Special requirements, based on successful experience, for the unique aspects of loads, analysis, design, and construction of concrete-pedestal tanks are presented.

Guide for the Analysis, Design, and Construction of Elevated Concrete and Composite Steel-Concrete Water Storage Tanks

Standards for tests and materials - Durability requirements - Concrete quality, mixing, and placing - Formwork, embedded pipes, and construction and movement joints - Details of reinforcement - Analysis and design general considerations - Strength and serviceability requirements - Flexure and axial loads - Shear and torsion - Development and splices of reinforcement - Two-way slab systems - Walls - Footings - Precast concrete - Composite concrete flexural members - Prestressed concrete - Shells and folded plate members - Strength evaluation of existing structures - Special provisions for seismic design - Structural plain concrete.

ACI Standard Building Code Requirements for Reinforced Concrete (ACI 318-77)

American Relief Sculpture

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