

Pankow grant on seismic precast concrete wall and frame structures complete

The Charles Pankow Foundation has completed research grant agreement 03-19, “Seismic Precast Concrete Wall and Frame Structures with Short-Grouted Ductile Rebar Connections.”

This report presents an investigation of precast concrete shear walls with nonproprietary, short-grouted connections for ductile energy-dissipating reinforcing bars crossing horizontal joints. Unlike available proprietary grouted splices that use end-threaded reinforcing bars for force transfer along the splice, the energy-dissipation bars in the proposed connection are terminated and grouted inside straight corrugated thin-gauge steel ducts. Vertical, transverse, and longitudinal tie reinforcement is designed around the connectors to transfer the energy-dissipation bar forces into the precast concrete component. The research included six large-scale shear wall test specimens. All six specimens were tested and evaluated under pseudo-static reversed-cyclic lateral loading and superimposed axial loading per seismic acceptance criteria for special precast concrete shear walls in ACI 550.6-19, *Acceptance Criteria for Special Unbonded Post-Tensioned Precast Structural Walls Based on Validation Testing and Commentary*.

The project's principal investigator was Yahya Kurama of the University of Notre Dame, and industry champions were Keith Bauer, Kal Benuska, Harry Gleich, Les Kempers, Kevin Kirkley, Walter Korkosz, Don Meinheit, Jon Mohle, Suzanne Aultman, Jared Brews, Andrew Osborn, and Wael Zatar. Allies and supporters included PCI, Clark Pacific, and Metromont Corp.

More information is available at <https://www.pankowfoundation.org/>.

—Source: Charles Pankow Foundation

ACI publishes print version of ACI 318-25 building code

The printed version of the American Concrete Institute's (ACI's) *Building Code Requirements for Structural Concrete (ACI 318-25) and Commentary (ACI 318R-25)* is now available. ACI 318-25 is the document that presents the requirements for the design and construction of structural

concrete that are necessary to ensure public safety. It is addressed to the engineer responsible for the contract documents and the building official.

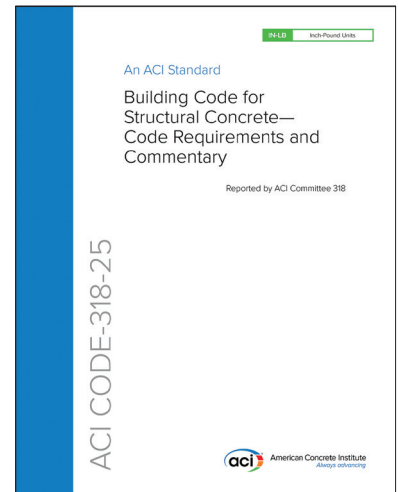
As ACI's flagship standard, ACI 318-25 sets the foundation for structural concrete design and construction in buildings and nonbuilding structures. Developed through an extensive consensus process, the document addresses all

major structural systems, including cast-in-place, precast, shotcrete, plain, nonprestressed, prestressed, and composite concrete construction. This latest edition introduces significant updates, including a new sustainability appendix that reflects modern construction practices, revised requirements for postinstalled reinforcing bars, and enhanced provisions for shear friction. Additional updates include improvements to deep foundation requirements across all seismic design categories and clarified guidelines for cantilever and basement wall shear design.

The 2025 edition is now available for purchase through the ACI store. A PDF version is also available.

For more information about ACI 318-25, visit <https://www.concrete.org/topicsinconcrete/318buildingcodeportal.aspx>.

—Source: American Concrete Institute



Pankow introduces CURE code updates for reduction of embodied carbon

The Charles Pankow Foundation has awarded research grant agreement 03-25, “CURE—Code Updates for Reduction of Embodied-carbon.” This initiative aims to address the issue of climate change by reducing embodied carbon in the construction industry. The phase 1 effort was announced in June in Boulder, Colo., at the American Society of Civil Engineers' Structural Engineering Institute (SEI) conference Toward Zero Carbon 2025: Summit & Symposium.

The construction industry is a significant contributor to global greenhouse gas emissions, primarily due to embodied carbon in buildings and infrastructure. To combat this, the project will review and update existing codes and standards, such as *Minimum Design Loads and Associated Criteria for Buildings and Other Structures* (ASCE/SEI 7-22), ACI 318, and the American Institute of Steel Construction's (AISC's) *Specification for Structural Steel Buildings*, with a focus on reducing embodied carbon. One example is the reconsideration of the ASCE/SEI 7-22 Live Load Table, which has not been reviewed

in decades. Updating these values based on recent research could lead to immediate reductions in embodied carbon.

This initiative represents a crucial step toward achieving substantial reductions in greenhouse gas emissions and promoting sustainable construction practices.

The project is funded by several organizations, including SEI, the American Concrete Institute Foundation, the AISC, the MKA Foundation, and the National Council of Structural Engineering Associations. In addition, numerous industry allies are lending their support to this initiative.

—Source: Charles Pankow Foundation

INDUSTRY CALENDAR

Event details are subject to change.

Concrete 2025 Adelaide, Australia	September 7-10, 2025
Third Durability and Sustainability of Concrete Structures (DSCS 2025) Naples, Italy	September 16-18, 2025
PTI 2025 Committee Days Cancun, Mexico	September 30– October 3, 2025
ACI Concrete Convention Hilton Baltimore & Marriott Baltimore Inner Harbor, Baltimore, Md.	October 26-30, 2025
37th Annual ASBI Convention Hyatt Regency, Bellevue, Wash.	October 26-30, 2025
Greenbuild Los Angeles, Calif.	November 4-7, 2025
AASHTO Annual Meeting Salt Lake City, Utah	November 17-20, 2025
2026 TRB Annual Meeting Walter E. Washington Convention Center and Marriott Marquis, Washington, D.C.	January 11-15, 2026
World of Concrete Las Vegas Convention Center, Las Vegas, Nev.	January 19-22, 2026
ACI Concrete Convention Hyatt Regency O'Hare, Rosemont, Ill.	March 29–April 2, 2026
fib Congress 2026 Lisbon, Portugal	June 15-18, 2026
PTI 2026 Committee Days Cancun, Mexico	September 29– October 2, 2026
ACI Concrete Convention Hilton Atlanta, Atlanta, Ga.	October 11-15, 2026
38th Annual ASBI Convention Grand Hyatt Riverwalk, San Antonio, Tex.	November 8-12, 2026
2027 TRB Annual Meeting Walter E. Washington Convention Center and Marriott Marquis, Washington, D.C.	January 10-14, 2027