

IN-LB

Inch-Pound Units

SI

International System of Units

Insulating Concrete Form Design and Construction— Report

Reported by ACI Committee 560

ACI PRC-560-22



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Insulating Concrete Form Design and Construction—Report

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American Concrete Institute
38800 Country Club Drive
Farmington Hills, MI 48331
Phone: +1.248.848.3700
Fax: +1.248.848.3701

www.concrete.org

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Reported by ACI Committee 560

Robert C. Rogers, Chair

Robert E. Sculthorpe, Chair of
last incremental update

James A. Farny, Secretary

Douglas Bennion
Scott Campbell
David H. DeValve
Kelvin L. Doerr
Brian C. Gerber
Anthony I. Johnson

Adam Knaack
James A. Lane
Lionel A. Lemay
Kenneth A. Luttrell
Kevin A. MacDonald
Craig McKee

Patrick F. O'Brien
Kevin C. Rector
Robert C. Rogers
Michael H. Weber
Carla V. Yland*

*Deceased.

Consulting member

Curtis Westbrook

Insulating concrete forms (ICFs) are leave-in-place forms typically produced in block or panel shapes of expanded polystyrene (EPS). They provide additional components, such as insulation and a substrate for interior and exterior finish attachment, for a wall or floor system. The most widely used ICFs are block shapes, which are stacked in an interlocking fashion to create stable formwork for creation of reinforced concrete walls. Due to the variability of these manufactured form systems, this report does not attempt to address every ICF type, but provides a commentary on those systems most prevalent in the market, and insight, as well as additional information, relative to their use in design and construction. The report focuses on ICFs for walls.

Keywords: bracing system; crossties; expanded polystyrene; formwork configurations; formwork materials; insulating concrete forms; polypropylene; polyurethane; screen grid; wall design; wall systems; web.

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