



INNOVATIVE PRODUCTS

DEDICATED SERVICE

CONCRETE RESULTS

# INTRODUCTION



## INTRODUCTION

Thermomass insulation systems have changed the world, or, at least the way the world builds with concrete. Since 1980, Thermomass has helped clients design and build durable, energy efficient, aesthetically versatile and environmentally responsible concrete sandwich walls.

Founded in Cedar Rapids, Iowa, by Robert T. Long, Thermomass has grown to become the industry leader for concrete sandwich wall construction. Long's innovative thinking and vision led to the development of Thermomass' cornerstone technology – a family of patented continuous fiber-composite connectors used to structurally tie two layers of concrete together through rigid insulation. These non-conductive, chemically resistant connectors allow for the creation of an uninterrupted envelope of insulation throughout the exterior walls of a building.

Long's innovative technology revolutionized concrete construction, and we continue to develop new products to keep Thermomass the leading international supplier of concrete insulation systems.

For more information, please visit [www.thermomass.com/benefits](http://www.thermomass.com/benefits).





## TECHNOLOGY



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Comprised of rigid insulation and fiber-composite connectors, Thermomass insulation systems are designed to provide the highest level of performance for sandwich wall panels. Closed cell rigid insulation used in our systems is manufactured to maintain maximum R-value and optimum moisture resistance through the elimination of thermal bridges.

The lynchpin of the assembly is the fiber-composite connector. All Thermomass connectors are comprised of individual E-glass strands and are bonded with a vinyl ester resin. This pairing creates a material that is exceptionally strong while possessing low thermal conductivity. The fiber-composite connectors have been engineered as the sole support for the two layers of concrete, so the structural integrity of these connectors is of the utmost importance.

As part of our stringent quality control process, Thermomass connectors are subject to rigorous third party evaluation. Additionally, traceable quality control processes are implemented at our manufacturing facility through laser etching of serial numbers and product testing.

Architects and engineers that specify a Thermomass insulation system know that they are incorporating the most proven material available for sandwich wall panel construction.

For more information on our technology, go to [www.thermomass.com/products](http://www.thermomass.com/products).

# ENERGY EFFICIENCY



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As our motto suggests, Thermomass is passionate about energy efficient walls. Whether our client is striving for a LEED rating, aiming for a zero-energy building, looking to exceed ASHRAE 90.1 or simply trying to reduce HVAC loads; there is a Thermomass insulation system designed and tested to help our partners meet their goals.

Buildings insulated with Thermomass systems are designed to maximize the thermal mass effect of concrete and minimize thermal bridges. These two tenets are key to meeting and exceeding the most stringent model energy codes and are crucial to creating a building envelope capable of delivering results in any climate. With R-values ranging from R-10 to R-50 for cast-in-place, tilt-up or precast applications; our clients can be assured of a solution for just about every situation.

From tried and trusted building science fundamentals to the expert advice provided by our LEED Green Associate employees, the Thermomass team truly does put *Energy Efficiency in Concrete Terms* on every project, and we look forward to showing you how your next concrete building can be more energy efficient while still costing less to build and operate.

Learn more at [www.thermomass.com/energy](http://www.thermomass.com/energy).





## SERVICE & SUPPORT



### TECHNICAL SERVICE

With a staff boasting more than 200 years of combined experience, we have been a part of thousands of projects, each with distinct requests and challenges. As a result of these lessons, we are able to offer a unique blend of practical thinking and real world experience to our clients. Whether it is advice on the compatibility of our systems with your project goals, recommendations on details or a thermal analysis on a potential project, our technical department is there for our clients every step of the way.

### SALES SUPPORT

Thermomass has a corporate philosophy of continued improvement through industry participation. Our experts are entrenched in the market through involvement with continuing education programs for the design community, industry specific committees and code body participation. In addition to our team in Iowa, we have strategically placed individuals around the world to service local markets and projects. This level of industry expertise and involvement results in a partnership with our clients that allows us to tackle even the most challenging project.

For a listing of our entire team, go to [www.thermomass.com/team](http://www.thermomass.com/team).