

# Sustainable Design with StoTherm® NExT Insulated Wall Claddings

For more than 50 years, Sto has been committed to the concept of environmental, economic and social sustainability. Our motto, "Building with conscience," focuses on this commitment.

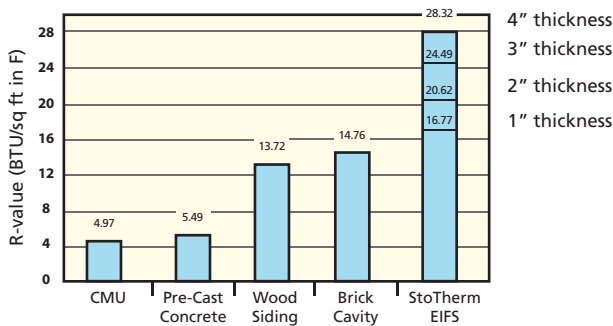
Sto knows the impact buildings can have on the environment. That's why it's our mission to maintain the value of both new and existing buildings for their owners, investors and users by providing product systems and services that improve a building's energy efficiency, durability and aesthetic appeal.

## StoTherm® NExT is Energy Efficient

Several design decisions contribute to the overall energy efficiency of a building. One significant factor is the airtightness of the building envelope. An airtight, well insulated building enclosure can save energy and create superior indoor climate control and comfort.

### • Superior Insulation and Higher R-Value

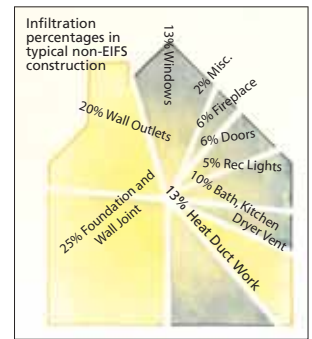
Comparable Nominal R-Values of Wall Assemblies



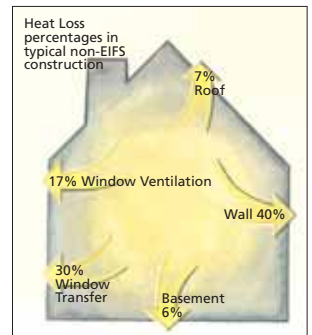
StoTherm NExT insulated wall claddings provide a blanket of insulation around the exterior of the building, eliminating the thermal breaks characteristic of between-the-stud insulation. A broad range of R-Values may be achieved by using EPS in varying thickness from ¾" to 4" (19-102 mm).

### • Protection Against Air Infiltration and Heat Loss

StoTherm NExT systems with proper details can reduce exterior air and moisture infiltration at foundation and wall joints, wall outlets and vents by as much as 55% compared to typical construction.



StoTherm NExT systems greatly reduce heat loss through the walls, which can account for up to 40% of the heat loss in non-EIFS construction.



*A continuous layer of insulation placed outbound of the studs minimizes thermal bridging, significantly increasing the effective R-Value of the wall assembly.*

## Reduced Material Requirements

Reducing the quantity of new materials needed for a building reduces environmental impacts associated with raw material extraction and disposal of construction waste.

- **Reduced Structural Requirements** – A StoTherm® Insulated Wall Cladding adds very little weight to the structure compared to other wall claddings, which means less material is required when calculating structural beams, girders and foundation footings, particularly as the height of the structure increases.
- **Building Reuse** – StoTherm NExT systems can be applied to properly cleaned surfaces of many types, including masonry, cement block and even painted surfaces, extending the life of existing building stock by renewing their appearance while alleviating problems like poor insulation and air leakage.

*Research by the Department of Energy's Oak Ridge National Laboratory shows EIFS walls to be the "best performing wall systems" providing "superior moisture and temperature control."\**

\*Source: The Hydrothermal Performance of Exterior Wall Systems: Key Points of the Oak Ridge National Laboratory NET Facilities Research Project.

## StoTherm® NExT Ensures Durability

"Sustainability" isn't just about energy efficiency or low CO<sub>2</sub> emissions. It starts with durable design, followed by sound construction practices that ensure longevity. Without durability as the cornerstone of sustainable design, most other sustainable building features are lost. StoTherm NExT with StoGuard™ ensures durability by protecting the sheathing from saturation, while still letting water vapor pass through – thus helping the wall dry, should incidental water leak into the wall assembly.

### Materials and Resources

Locally Sourced Materials – Locally extracted raw materials, or finished goods manufactured close to the job location, reduce the environmental damage wrought by the transportation of materials.

- StoTherm NExT components are manufactured in four locations, covering the US and Canada. A majority of the raw materials used in StoTherm NExT system components are extracted locally to these manufacturing plants.

Contact your local distributor for more information.  
Please visit us at [www.stocorp.com](http://www.stocorp.com) or call us toll-free at 800-221-2397.

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