



**StoTherm Lotusan NEXt™**  
Energy Efficiency  
and Performance Built  
on Nature's Best Ideas.

# StoTherm Lotusan NExT™

Integrating sustainability and durability to create a high-performance, energy-efficient wall cladding.

StoGuard™ + StoTherm® + Stolit® Lotusan® = StoTherm Lotusan NExT™

**StoTherm Lotusan NExT™ integrates three proven components – a continuous waterproof air barrier, exterior insulation and a textured finish with self-cleaning properties – into a superior, sustainable wall cladding unlike any other. This high-performing, eye-catching wall cladding system saves energy and stays attractive for years. StoTherm Lotusan NExT improves indoor comfort and air quality while maintaining maximum curb appeal and lowering overall life cycle costs, delivering unparalleled energy efficiency and durability for today's sustainable building construction.**

## StoGuard™

StoGuard, the NExT component, is a seamless spray-on building wrap that unites energy efficiency and durability, creating a continuous waterproof air barrier beneath exterior wall claddings.

- Superior protection against moisture intrusion and air leakage
- Continuous coverage without nail or staple holes prevents moisture infiltration
- Improved indoor air quality
- Protection against mold and mildew
- Easy and safe to install

## StoTherm®

StoTherm insulated wall claddings provide buildings with a blanket of continuous insulation that protects the exterior from temperature fluctuations and keeps interiors more comfortable. To date, more than 860 million square feet of StoTherm have been installed worldwide, demonstrating the system's long-lasting performance. In addition, StoTherm is newly improved with lighter-weight Sto BTS® Xtra basecoat / adhesive, with 17% recycled content.

- Reduced air infiltration and heat loss for increased interior comfort
- Significant energy savings in both hot and cold climates
- Durable and low maintenance
- Design freedom and versatility
- Lower structural steel requirements due to lighter weight

## Stolit® Lotusan®

Featuring the Lotus-Effect®, a patented breakthrough technology modeled on the unique self-cleaning lotus leaf, Stolit Lotusan is incomparable to any exterior plaster product on the market. Like the lotus leaf, the textured finish is rinsed clean with rainfall, thereby reducing maintenance costs.

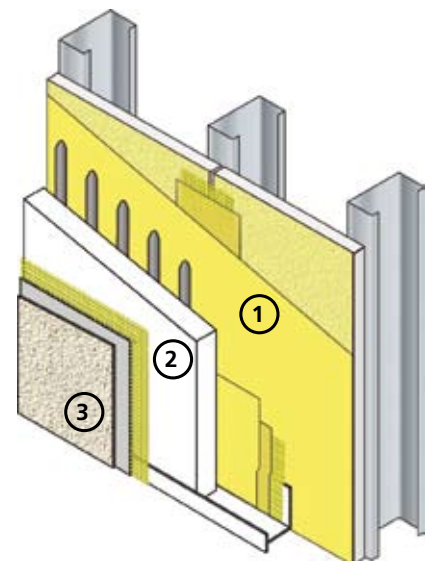
- Super hydrophobic, unprecedented water repellence
- Long-lasting curb appeal and reduced maintenance costs
- Pronounced self-cleaning properties
- Highly resistant to mold, mildew and algae
- Available in a variety of textures and colors



The innovative self-cleaning properties of Stolit Lotusan finish help nature do its job, gently rinsing away dirt with the rain and leaving the building façade clean, dry and attractive. Stolit Lotusan is also available in a variety of colors, offering superb design freedom.

## StoTherm Lotusan NExT™

- 1: StoGuard spray-on building wrap
- 2: StoTherm insulated wall cladding
- 3: Stolit Lotusan textured finish



A study by the National Institute of Standards and Technology (NIST) confirmed that air barriers, like StoGuard, promote energy savings from 30–40% for heating climates and 10–15% for cooling climates.<sup>1</sup>

A recent U.S. Department of Energy study shows that exterior insulation and finish systems (EIFS) perform better than stucco, concrete block, fiber cement siding and even brick in energy efficiency, moisture intrusion and temperature control, making EIFS an excellent choice in mixed, coastal and hot and humid climates.<sup>2</sup>



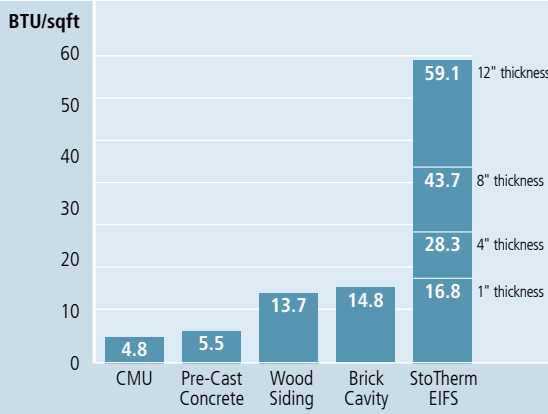
Stolit Lotusan's patented Lotus-Effect technology takes its cue from the lotus plant's unique water-repelling ability.



The textured finish is rinsed clean with rainfall, like the lotus leaf.

## Comparable Nominal R-Values

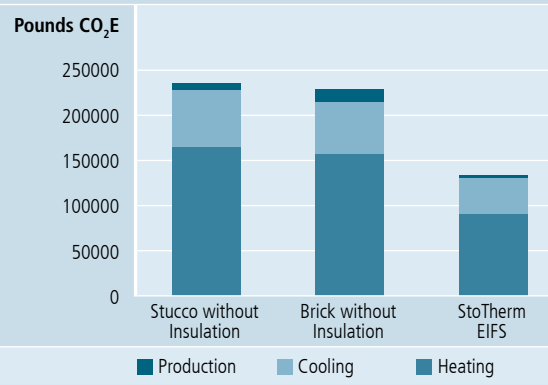
### Wall Assemblies



## R-Value

The higher the R-value, the more effective a building's insulation. StoTherm insulated claddings can be installed with EPS up to 12" thick to achieve significantly higher R-values than other claddings. Plus, by placing the insulation on the building's exterior, StoTherm Lotusan NEXT eliminates the thermal bridges that can reduce the effective R-value of between-the-stud insulation by nearly 50%.

## Life Cycle Greenhouse Gas Emissions<sup>3</sup>

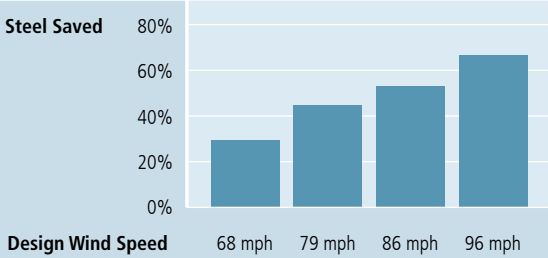


## Greenhouse Gas Emissions

Sto minimizes a building's impact on the environment while increasing its energy efficiency. Buildings clad with StoTherm use significantly less energy than those clad with non-insulated brick or stucco and emit less greenhouse gas. Sto materials require less energy to produce, are lightweight and sourced locally, which means less fuel is used for transportation to job sites.

## Steel Savings Potential

### StoTherm EIFS Wall Cladding vs. Brick<sup>4</sup>



## Steel Savings

Multi-story buildings with brick veneers require heavier, thicker steel studs to meet stringent wind-load deflection criteria. StoTherm insulated wall claddings require less metal stud stiffness. That means lighter, thinner steel studs and as much as 60% cost savings on steel.

**While Sto makes a big impact when it comes to performance, our impact on the environment is small.**

Sto incorporates sustainable practices throughout our operations earning us ISO 14001 certification for our environmental management system. Many of our products, including StoTherm Lotusan NExT, help reduce the environmental impact of building by saving energy and utilizing materials that contain recycled content and are locally sourced and lighter weight to reduce transportation costs.

Sto is the world's largest manufacturer of exterior insulation and finish systems. Overall, the estimated energy savings resulting from the worldwide use of Sto façade systems account for more than 9 billion gallons of heating oil, thereby avoiding the emission of more than 110 million tons of CO2 into the atmosphere.

**Find out more**

Contact your local Sto sales representative for a free demo of StoTherm Lotusan NExT from Sto, the worldwide innovative leader in cladding, coating and restoration systems. Questions or comments? Visit [www.stocorp.com](http://www.stocorp.com), call (800) 221-2397 or email [marketingsupport@stocorp.com](mailto:marketingsupport@stocorp.com).

**Sto Corp.**

3800 Camp Creek Parkway  
 Building 1400, Suite 120  
 Atlanta, GA 30331  
 Phone 404-346-3666  
 Toll Free 1-800-221-2397  
 Fax 404-346-3119  
[www.stocorp.com](http://www.stocorp.com)

<sup>1</sup> Source: NISTIR 7238 "Investigation of the impact of Commercial Building Envelope airtightness on HVAC energy use"

<sup>2</sup> View study results at the Oak Ridge National Laboratory web site: <http://www.ornl.gov/sci/roofs+walls/research/EIFS/eifs.htm>

<sup>3</sup> "LIFE CYCLE INVENTORY OF WALL CLADDING, Draft Report" Prepared for Sto Corp., by Franklin Associates, A Division of ERG, Prairie Village, KS, April, 2009

<sup>4</sup> 10 ft. continuous span metal studs at 16" O.C. – based on maximum allowable deflection criteria of L/600 for brick vs. L/240 for StoTherm. See [www.stocorp.com](http://www.stocorp.com) for complete report.



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