



StoTherm® NExt®
Insulated Wall Claddings
Advanced Performance
and Design Versatility

StoTherm® NExT® Insulated Wall Claddings

An integrated system that delivers the best in durability, sustainability and design flexibility.

StoTherm NExT integrates three proven components – a continuous waterproof air barrier, exterior continuous insulation and a variety of textured finish options – 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 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 the StoTherm cladding.

- Superior protection against moisture intrusion and air leakage
- Continuous coverage without nail or staple holes lowers risk of 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 adhesive / basecoat 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
- Low structural steel requirements due to light weight

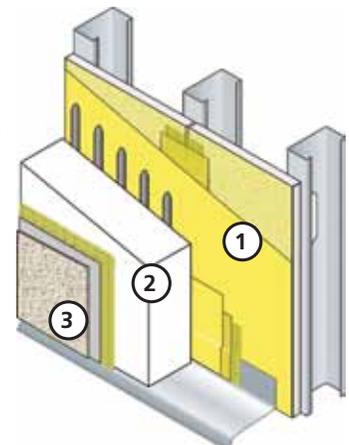
Finishes

Sto has you covered in a range of beautiful, durable finishes, containing pure white marble aggregate and 100% acrylic polymers. All provide a strong, flexible outer skin that can be produced in virtually unlimited colors at no additional cost. Sto finishes are manufactured to guard against pinholing, and are dirt and water resistant to discourage mildew and algae growth. All are produced in Sto's ISO 9001:2008 and ISO 14001:2004 certified production factories to assure product quality in every application.



StoTherm NExT

- 1: StoGuard spray-on building wrap
- 2: StoTherm insulated wall cladding
- 3: 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.¹

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 brick in energy efficiency, moisture intrusion and temperature control, making EIFS an excellent choice in mixed, coastal, and hot and humid climates.²



As the world's largest EIFS manufacturer, Sto offers an extensive range of systems and solutions that provide superior energy efficiency and durability, as well as unparalleled design flexibility and creative versatility.

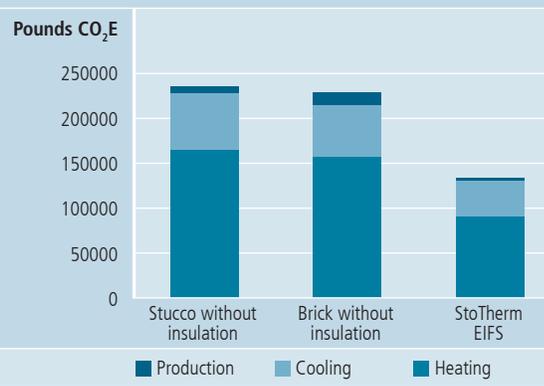
Comparable Nominal R-Values³



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 NEXt eliminates thermal bridging that can reduce the effective R-value of between-the-stud insulation by nearly 50%.

Life-Cycle Greenhouse Gas Emissions⁴



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. Plus, StoTherm NEXt systems are produced using less energy than comparable brick or stucco systems. This means lower overall greenhouse gas emissions. (View complete life-cycle inventory report at www.stocorp.com).



Heat loss due to thermal bridging in standard between-the-studs insulation

StoTherm EIFS virtually eliminates thermal bridging.

Elimination of Thermal Bridging

The transfer of heat through wood or metal studs can significantly reduce the effective R-value of a wall assembly. By placing the insulating layer outside the studs, this loss is minimized for a more energy-efficient building. And with recent changes to IECC codes, continuous insulation such as that provided by EIFS is not only recommended but required in most climate zones.

StoTherm® Provides Design Freedom and Versatility

Bringing architectural vision to life in a sustainable, integrated system as versatile as today's building design.

StoTherm insulated wall claddings provide freedom of design well beyond what other claddings can offer. Form, details, color and texture offer the architect endless possibilities.

Features such as curves, quoins, arches, reveals, accent bands and sculptured details are easy and economical to fabricate and install. This flexibility enables the architect to work within a wide range of architectural styles as well as to realize his or her unique creative vision.

Finishes featuring pure white marble aggregate, 100% acrylic polymers, a variety of textures and integral colors enhance the design and harmonize with the surrounding environment. StoTherm offers virtually unlimited color choice at no additional cost.



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



Sto specialty finishes can be used to achieve a variety of looks, including brick, granite or limestone.

StoTherm® Features and Benefits

Feature	Benefit
High R-Value	Superior insulation with R-values up to 59. Provides significant energy cost savings.
Waterproof Air Barrier Protection	StoGuard waterproof air barrier saves energy and protects against moisture intrusion by resisting air leakage and providing a waterproof layer of protection on the sheathing component.
Code Approved	Exterior insulation and finish systems were officially included in the 2009 ICC building code. Also complies with IECC code requirements for continuous insulation.
Dew Point Outside Stud Cavity	Prevents wall damage caused by condensation and possible freezing of water vapor within the wall assembly.
Low Maintenance	Coatings and finishes with advanced acrylic and Lotus-Effect technologies resist fading, peeling, cracking and stay clean and new-looking longer.
Economic Installed Cost	Low installed cost and long term durability mean low life-cycle costs.
Lowest Life-Cycle Costs	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.
Fewer Transition Penetrations	No mortar joints, penetrating nails or screws, or siding laps means a smoother finished appearance and fewer points of entry for outside moisture.
Premium 100% Acrylic and Lotus-Effect Finishes	<ul style="list-style-type: none"> • Vapor permeable to minimize blistering, peeling and bubbling. • Excellent weatherability to resist wind-driven rain and UV light degradation. • Superior fade and UV resistance for long-lasting durability and color retention. • Superior resistance to algae, mildew and mold growth.
Reduced Structural Requirements	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 studs.

Safeguard Value with StoTherm® Insulated Wall Claddings

Build with confidence when Sto is on the job with a tested and code recognized system that outperforms other wall claddings.

A proven system, not just products.

Sto has engineered the highest-performing products into a comprehensive system that delivers what no separate components can. With a deep understanding of the demands of temperature, region and location, Sto delivers a system of products to protect and enhance your building's value. Energy efficiency, improved air quality and cost savings are built into a StoTherm NEXt wall cladding system.



Which System is Right for You?

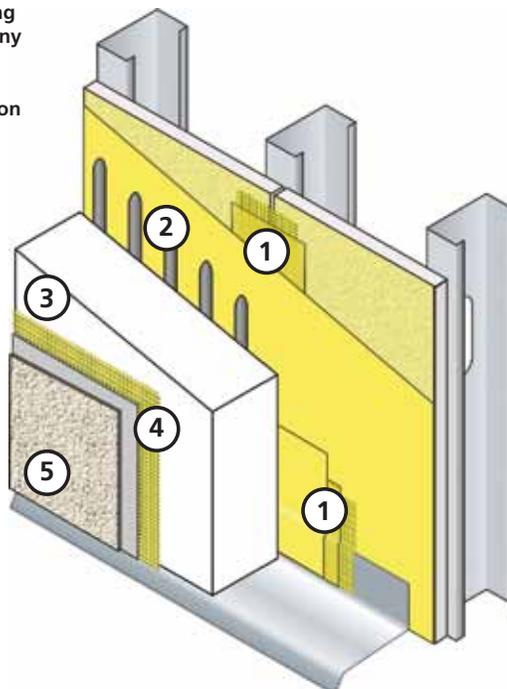
	Waterproof Air Barrier	Basecoat / Adhesive	Finish	Warranty (years)	Energy Savings	Moisture Protection	Dirt Resistance
StoTherm Lotusan NEXt™	StoGuard®	Sto BTS®	Stolit Lotusan™	15	★★★	★★★	★★★
StoTherm Classic NEXt®	StoGuard	Sto BTS	Stolit®	12	★★★	★★★	★★
StoTherm Essence NEXt®	StoGuard	Sto Primer Adhesive B	Sto Essence	10	★★★	★★★	★
StoTherm Lotusan™	N/A	Sto BTS	Stolit Lotusan	10	★★	★	★★★
StoTherm Classic	N/A	Sto BTS	Stolit	7	★★	★	★★
StoTherm Essence	N/A	Sto Primer Adhesive B	Sto Essence	5	★★	★	★

★ Good ★★ Better ★★★ Best

The StoTherm NExT system integrates StoGuard seamless spray-on building wrap, StoTherm insulated cladding and a textured, high-performance finish. Together, these components increase energy efficiency, improve air quality and lower overall life-cycle costs – all while keeping your building looking good longer.



StoTherm NExT insulated wall cladding system improves the appearance of any building while enhancing its energy efficiency and indoor air quality by combining advanced exterior insulation and StoGuard waterproof air barrier.



StoTherm NExT Components

- 1: StoGuard Waterproof Air Barrier – fluid applied, continuous, seamless, structural
- 2: Sto Adhesive – adheres insulation boards to the substrate
- 3: Sto Insulation Board – expanded polystyrene provides a continuous blanket of exterior insulation
- 4: Sto Base Coat with embedded Sto Mesh – adds durability and reinforcement
- 5: Sto Finish – protects against weather and provides a beautiful exterior in a variety of textures and virtually unlimited colors

StoTherm® NExT® Supports Sustainable Building Initiatives

Program	Requirement	StoTherm NExT	
IECC – International Energy Conservation Code®	Air Sealing	Yes	
	Continuous Insulation	Yes	
IGCC – International Green Construction Code™	Resource Conservation	Yes	
	Energy Conservation	Yes	
	Indoor Environmental Quality	Yes	
LEED Credit Potential	Energy and Atmosphere Prereq 2: Minimum Energy Performance Credit 1: Optimize Energy Performance	Yes Yes	
	Material and Resources Credit 4: Recycled Content Credit 5: Regional Materials	Yes Yes	
	Indoor Environmental Quality Credit 4.1: Low Emitting Materials – Paints and Coatings Credit 7.1: Thermal Comfort – Design	Yes Yes	
	Innovation in Design Credit 1.1-1.5: (e.g., lightweight cladding)	Yes	
	ASHRAE 189.1	Air Sealing	Yes
		Continuous Insulation	Yes
EPA – Environmental Protection Agency	Low VOC Coatings Compliance	Yes	
SCAQMD – South Coast Air Quality Management District	Low VOC Coatings Compliance	Yes	

Find out more

Questions or comments? Visit www.stocorp.com, call (800) 221-2397 or email 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

¹ Source: NISTIR 7238, "Investigation of the impact of Commercial Building Envelope airtightness on HVAC energy use."

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

³ Complete R-value chart with wall assembly descriptions is available at www.stocorp.com

⁴ "LIFE CYCLE INVENTORY OF WALL CLADDING, Draft Report," prepared for Sto Corp. by Franklin Associates, a Division of ERG, Prairie Village, KS, April, 2009.

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