



Sto Corp. | Exterior

Why Sto?

Sto is the innovative worldwide leader in cladding, coating and restoration systems. Sto was a pioneer in advanced coatings and building technologies in Europe long before coming to the U.S. in 1979. Sto was there at the beginning, bringing Exterior Insulation and Finish Systems (EIFS) to the European market in 1963 and is the world's largest producer of EIFS today. Our expertise in insulated wall claddings is unmatched.

Now, Sto has introduced the latest in EIFS, StoTherm™ NEXT, with the benefits of a Sto Insulated Wall Cladding plus the superior waterproofing/air barrier for extra protection and outstanding insulation value.

Protect First. Think NEXT.™

StoTherm™ Insulated Wall Claddings

Why StoTherm™ NExT?

StoTherm NExT (New Exterior Technology) goes far beyond conventional exterior claddings, combining the very best technologically advanced system of liquid-applied waterproofing/air barrier with the proven performance features of Sto's Insulated Wall Claddings to create the next evolution of EIFS. With freedom of design that no other cladding can offer, a protective blanket of exterior insulation, and excellent strength-to-weight ratios, your building is not only beautiful but well-insulated, cost-effective and engineered to last. StoTherm NExT is designed to meet stringent building codes for moisture protection of all types of construction, yet with all the benefits of adhesive attachment, and quickly installed at very affordable cost. The question is "Why choose anything else?"

1 Continuous Moisture Protection

StoGuard™ goes on wet to keep your building dry. It is a liquid-applied component that creates a continuous air and moisture barrier to protect against moisture intrusion. StoGuard bonds directly to sheathing and rough openings to protect against water penetration, air infiltration and wind pressure during and after construction. Its flexible nature allows StoGuard to bridge sheathing joints to provide seamless, unbroken protection. Vertical adhesive ribbons and weeping starter track allows incidental moisture to escape the wall system without harm.

2 Reduced Air Infiltration and Heat Loss

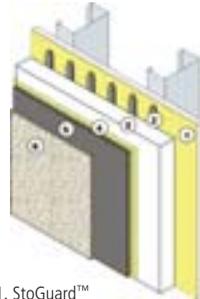
- Continuous exterior insulation provides significant energy savings and superior interior climate control and comfort.
- Exterior air and moisture infiltration at foundation and wall joints, wall outlets and vents is reduced by as much as 55% compared to typical construction.
- Heat loss through the walls, which accounts for up to 40% of heat loss in non-EIFS construction, is greatly reduced.

3 Superior Insulation

StoTherm Insulated Wall Claddings offer better insulation and higher R-values because rigid expanded polystyrene (EPS) boards are attached adhesively as a continuous blanket around the exterior of the structure, eliminating the many thermal breaks characteristic of between-the-stud insulation and claddings attached with nails and screws. A broad range of R-values can be attained by using EPS in varying thickness from 3/4" to 4" (19-101 mm).

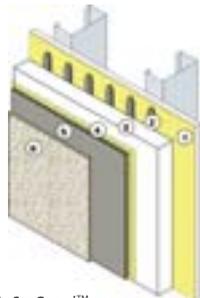
4 Reduced Structural Requirements

A StoTherm Insulated Wall Cladding adds very little weight to the structure in comparison to other wall claddings, which results in cost savings when sizing structural beams, girders and foundation footings, particularly as the height of the structure increases. StoTherm Insulated Claddings also require less stringent design deflection (L/240) criteria than most other claddings, enabling the use of lighter weight studs. The reduced size of structural members can also allow for increased floor-to-ceiling heights and more interior floor space.



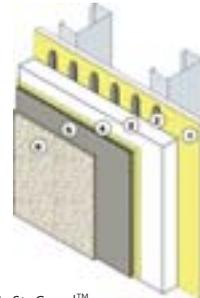
1. StoGuard™
2. Sto Primer/Adhesive-B Adhesive
3. Sto EPS Insulation Board
4. Sto Reinforcing Mesh
5. Sto Primer/Adhesive-B Base Coat
6. Sto Essence DPR Finish

StoTherm Essence NExT™ provides Sto quality at affordable price. It meets all industry performance requirements and provides the exceptional design flexibility and curb appeal of StoTherm Insulated Wall Claddings. Sto Primer/Adhesive-B, a versatile, one-component product used as both adhesive and base coat, is factory blended for consistent performance. Sto Essence DPR Finish provides weatherability – it resists wind-driven rain and the damaging effects of ultraviolet light. StoTherm Essence is appropriate for most types of construction. Adding StoGuard secondary weather barrier with vertically oriented adhesive ribbons and weeping starter track to Sto Essence creates **StoTherm Essence NExT™**. StoGuard protects during and after construction and outperforms other types of secondary weather protection while also allowing adhesive EIFS attachment.



1. StoGuard™
2. Sto BTS® Plus Adhesive
3. Sto EPS Insulation Board
4. Sto Reinforcing Mesh
5. Sto BTS® Plus Base Coat
6. Stolit® Finish with Optilink®

StoTherm Classic NExT™, Sto's most popular wall cladding, exceeds the industry standard, yet remains cost effective while adding distinction and value. StoTherm Classic features the performance, versatility and flexibility of Sto BTS® Plus, a polymer-modified, one-component cementitious adhesive and base coat that is specially engineered to help achieve the recommended 1/16" base coat thickness in one application. Stolit®, the world's most often used 100% acrylic textured finish, forms a seamless, protective, flexible skin for the structure. Stolit features Optilink® advanced polymer technology for improved resistance to dirt pick-up and the growth of mildew, mold and algae. Installing StoGuard on the sheathing creates **StoTherm Classic NExT™**, adding superior waterproofing/air barrier for a dual line of defense against incidental moisture.



1. StoGuard™
2. Sto BTS® Plus Adhesive
3. Sto EPS Insulation Board
4. Sto Reinforcing mesh
5. Sto BTS® Plus Base Coat
6. StoSilco® Lit Finish with Optilink®

StoTherm Premier NExT™ is Sto's best wall cladding. It includes all the performance components of StoTherm Classic and adds the silicone-enhanced performance of StoSilco® Lit finish. The benefits of silicone are well known, enhancing a wide variety of construction product types. In StoSilco® Lit, silicone emulsion technology and Optilink® advanced polymer technology are combined to create finishes that provide superior protection against the elements, enhancing vapor permeability and providing superior resistance to UV deterioration, dirt pick-up and mildew/algae growth. Adding StoGuard superior waterproofing/air barrier protection onto the building behind Sto Premier creates **StoTherm Premier NExT™**, the best insulated wall cladding available anywhere, and adding the capability for draining incidental moisture.

StoGuard™

The StoGuard system of moisture protection is what sets Sto NExT apart – it adds a superior waterproofing/air barrier component to provide confidence of protection against the elements. StoGuard is comprised of two component products:



Sto Gold Fill®

- Flexible; provides continuous protection for rough openings and sheathing joints by bridging gaps created by normal movement
- Water-based; easy to clean-up; environmentally friendly
- Trowel or spray-applied; standard application techniques

Sto Gold Coat®

- Waterproof; creates a protective barrier for sheathing against moisture intrusion
- Roller or spray-applied; fast, easy application, reduced labor costs
- Gold color; helps ensure even coverage
- Resists air infiltration; reduces energy costs while increasing interior comfort
- Water-based; easy to clean up; environmentally friendly



StoGuard™ is an air barrier and a moisture barrier. It prevents condensation related to mass air movement through the wall. In addition, StoGuard cuts off the path for wind-driven rain water to enter the building. As a secondary waterproof barrier bonded to the water sensitive sheathing of the building envelope, StoGuard resists damage and is easily integrated with flashing.

Test	Method	Requirement	StoGuard Result
Air Barrier	CCMC	.02 L/sec./m ²	.0014 L/sec./m ²
Moisture Barrier	ASTM E-331	No water penetration	No water penetration

- Air barrier test: 75 Pa (1.56 psf) pressure.
- Moisture Barrier test: 3.4L/m²/minute (5.0 gallons/ft²/hour). This is equivalent to 8 inches (203mm) rainfall per hour driven by 50 mph (80km/hr) wind, for 75 minutes.
- CCMC = Canadian Construction Materials Centre

Sto Warranty

Barrier System	Years	Add StoGuard™	Years
StoTherm Essence	5	StoTherm Essence NExT™	10
StoTherm Classic	7	StoTherm Classic NExT™	12
StoTherm Premier	10	StoTherm Premier NExT™	15

5 Economic Installed Cost

- The installation of StoTherm Insulated Wall Claddings translates into savings in production time and labor.
- Production is easily sequenced for efficiency.
- The low installed costs and durability of Sto Claddings reduce the lifecycle cost of the wall cladding.
- StoMachine Technology combines product and equipment innovation for better wall cladding applications in a fraction of the time.

6 Design Freedom and Versatility

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 sculptural 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 Wall Claddings offer virtually unlimited color choice at no additional cost.

7 Outstanding Protection Against the Elements and Water Intrusion

The seamless wall surface of StoTherm Claddings is water vapor permeable but repels rain or external moisture.

- Fewer transitions and penetrations than other claddings offer fewer points of entry for outside moisture. (No mortar joints, no penetrating nails or screws, no siding laps.)
- Vapor-permeable, 100% acrylic and silicone-enhanced Sto finishes allow incidental moisture to escape while repelling rain and weather.
- The inclusion of StoGuard behind StoTherm EIFS creates StoTherm EIFS NExT and provides redundant moisture protection for all types of construction.
- StoTherm EIFS meet or exceed water penetration standards required by U.S. and Canadian model building codes (BOCA, SBCCI, ICBO, and in Canada, CCMC).

8 Low Maintenance and Long-Term Durability

Sto's coatings and finishes, with their advanced 100% acrylic and silicone chemistry, look new longer. They resist fading, peeling, cracking, dirt pick-up, mildew, mold and other biological growth. They are easily cleaned by low pressure power washing with water and a mild detergent to extend lifecycle to recoating. If a new look is desired, recoating StoTherm Wall Claddings is simple and cost-effective. Structures clad with StoTherm EIFS can be easily inspected and maintained on a regular basis to insure long-lasting beauty and integrity.

9 Hundreds of millions of square feet of StoTherm Insulated Wall Claddings are in place and performing beautifully across North America, produced in Sto's ISO 9001:2000 quality certified factories.

StoTherm™ NExT Insulated Wall Claddings

For details and more, use www.stocorp.com

1-800-221-2397

the innovative world leader in cladding, coating and restoration systems

Areas of Business

Headquartered in Atlanta, Georgia, Sto Corp. today offers the following outstanding product systems to meet the new construction and renovation needs of residential, commercial and institutional markets in North America:

- A complete line of Sto Powerwall® Stucco products
- Superior Waterproofing/Air Barrier products, including StoGuard
- A complete line of Insulated Wall Claddings, including StoTherm™ NExT
- Architectural Coatings, including StoCoat™ Lotusan
- Integrated Concrete and Masonry repair systems

Sto's Added Value: Innovation, Experience, Performance, Customer Service

Sto adds value to residential and commercial properties from the beginning phases of your construction project with:

- Most comprehensive product lines
- Experienced independent applicator base
- Proven warranty program
- Local sales & technical representatives
- Technical Service Hotline (1-800-542-3057)
- Established local distribution network for timely delivery
- Regional manufacturing support
- Local, regional, and national building code recognition
- Provider: AIA Continuing Education
- Sto Studio: a service for color renderings and architectural treatments
- Sto Institute: Sto educational unit, providing practical seminars and training courses for industry professionals
- ISO 9001:2000 quality certification
- StoMachine Technology: better wall cladding solutions by combining product and equipment innovation with superior service and support

The Sto Essence, Classic and Premier Systems are five component Exterior Insulation and Finish Systems that function as decorative and protective insulating exterior wall claddings. They consist of five components: adhesive, insulation board, base coat, reinforcing mesh and finish coat. These components, when properly integrated with other components of construction, form a barrier wall which is intended to resist water penetration at its outer surface. A barrier wall cladding is not designed to drain or eliminate moisture behind it. The accumulation of moisture behind the Sto Essence, Classic and Premier Systems could result in building damage. As with any wall cladding, proper detailing and integration with other components of construction by a qualified design or construction professional, including the proper use of flashing, to prevent the accumulation of moisture within the wall assembly are essential. For added protection against damage in the event of water penetration through the barrier Sto Systems, Sto recommends Sto NExT, including StoGuard continuous waterproofing/air barrier protection. Sto Corp. assumes no liability for workmanship, design or engineering.

ATTENTION

Sto products are intended for use by qualified professional contractors, not consumers, as a component of a larger construction assembly as specified by a qualified design professional, general contractor or builder. They should be installed in accordance with those specifications and Sto's instructions. Sto Corp. disclaims all, and assumes no, liability for on-site inspections, for its products applied improperly, or by unqualified persons or entities, or as part of an improperly designed or constructed building, for the nonperformance of adjacent building components or assemblies, or for other construction activities beyond Sto's control. Improper use of Sto products or use as part of an improperly designed or constructed larger assembly or building may result in serious damage to this product, and to the structure of the building or its components. **STO CORP. DISCLAIMS ALL WARRANTIES EXPRESS OR IMPLIED EXCEPT FOR EXPLICIT LIMITED WRITTEN WARRANTIES ISSUED TO AND ACCEPTED BY BUILDING OWNERS IN ACCORDANCE WITH STO'S WARRANTY PROGRAMS WHICH ARE SUBJECT TO CHANGE FROM TIME TO TIME.** For the fullest, most current information on proper application, clean-up, mixing and other specifications and warranties, cautions and disclaimers, please refer to the Sto Corp. website, www.stocorp.com.

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