



Building with conscience.

StoTherm[®] ci

Exterior Wall Insulation Systems

Facades



StoTherm[®] ci offers fully engineered systems with the widest range of aesthetic options in the industry. These high performance and lightweight systems save energy and stay attractive for years.



StoTherm ci wall systems

Unlimited design flexibility

Combining innovative design and high-level performance, StoTherm ci offers a unique approach to wall system design. They are a highly efficient and cost-effective solution to bolster an architect's aesthetic vision.

Choose from a wide range of colors and textures for every exterior, giving you the freedom to create truly unique features. No matter the look or looks of the building, StoTherm ci systems offer unprecedented flexibility to your building's design. From architectural shapes and eye-catching finishes to high-performance coatings, the possibilities are virtually limitless.



Complete and versatile wall protection

Additionally, StoTherm ci wall systems provide world class performance through the integration of continuous insulation (ci), innovative air and water-resistive barrier technology, drainage and a variety of architectural surface options. They are easy to install and can be used in almost any commercial setting.

StoTherm ci improves indoor comfort and air quality while maintaining maximum curb appeal and lowering overall life cycle costs. A combination that creates a superior, sustainable wall cladding that delivers maximum protection and peace of mind.





Extraordinary awaits

Unrivaled aesthetic versatility

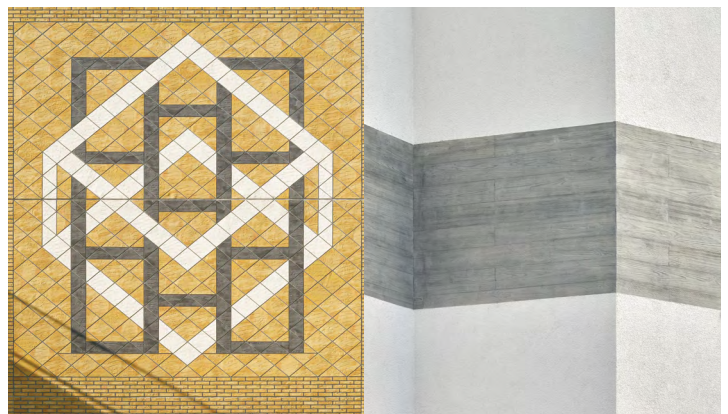
StoTherm ci systems offer ultimate design freedom. Unique shapes, details, textures, colors and finish effects are all possible with Sto's unmatched offering of standard and specialty finishes, or your choice of masonry veneer surfaces. Combined with the unique aesthetics of StoSignature® or StoCast Brick or StoCast Wood for instance, it is easy to create multi-cladding aesthetic combinations, while maintaining the protective continuity of the StoTherm ci wall system across the entire building.

Ultimate Creativity with StoSignature®

StoSignature with its unique combination of color, texture, and application techniques, gives you the ability to create a signature design, using standard Sto finishes and creative application techniques. StoSignature allows you to achieve traditional surface aesthetics like stone, wood, brick and concrete or develop your own creative textures with an endless array of colors, tones, and effects.

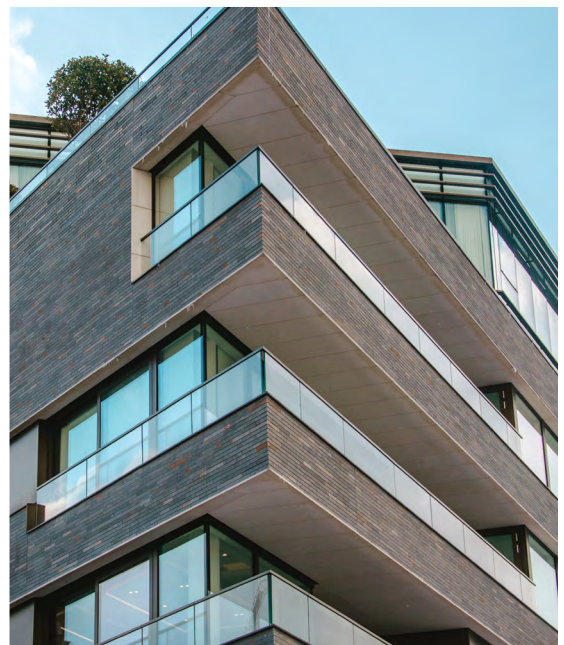
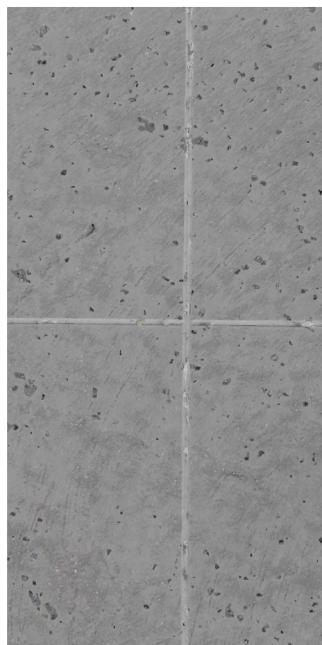
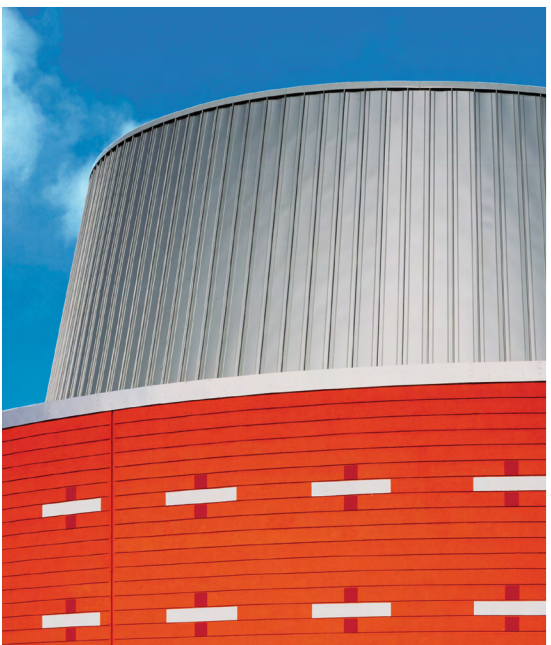
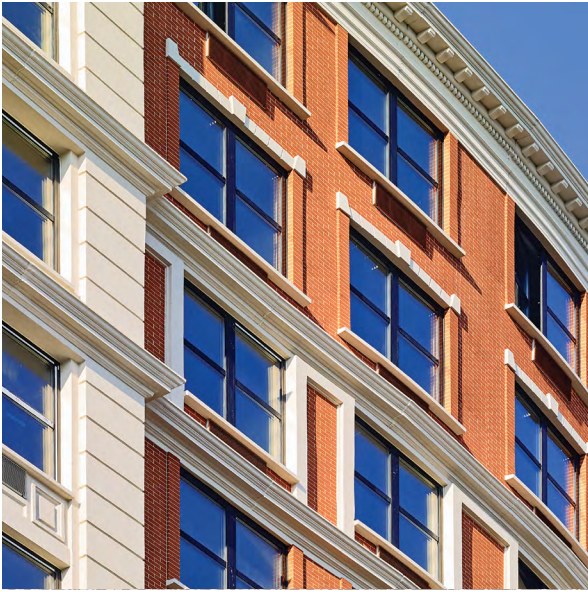
Long Term Beauty with Minimal Maintenance

The best-looking buildings are clean. To keep them that way, the chemists at Sto looked to nature for inspiration, and created Sto iQ technology™ coatings, which incorporate surface chemistry biomimicry. StoColor® Lotusan® coatings and finishes mimic the microtextured surface found on the Lotus leaf to repel water, letting walls self-clean with every rainshower.



StoCast Brick and StoCast Wood resin-cast shapes offer an authentic look and feel of brick and wood while boasting superior performance. They can be applied over a wide variety of Sto's building enclosure systems giving additional design freedom to your facade.

StoCast Brick and StoCast Wood joins a wide range of aesthetic options from Sto, allowing designers to achieve a multitude of looks while enjoying the continuity and compatibility of the wall cladding.





Setting the standard for ci sustainability

StoTherm ci wall systems exceed today's energy, design, and performance standards. The advanced exterior wall combines the StoGuard® air and water-resistive barrier with high-performance continuous insulation to form a seamless and continuous envelope around the building. The result is a wall design that offers exceptional efficiency and aesthetic value.

The Perfect Wall

StoGuard® fluid applied air and water-resistive barrier provides the air/vapor/moisture control layers. Water drainage is achieved via ribbons of Sto adhesives and the thermal control layer can be mineral wool, EPS or XPS. Finally, Sto's wide selection of high performance aesthetic surfaces provide the outer control layer, ensuring durability and protection from the elements.

Superior Energy Savings

When it comes to complying with the rapid changes in energy standards, StoTherm ci systems consistently offer more than traditional wall systems.

The seamless cladding systems provide optimal performance that meets or exceeds ASHRAE design standard 90.1-2019, the 2018 IECC energy code requirements for continuous insulation, and Title 24 requirements for energy efficiency.

All StoTherm ci systems are suitable for use on noncombustible construction based on testing in compliance with NFPA 285 and NFPA 268.

In addition, StoTherm ci wall systems reduce the carbon footprint of structures more effectively than non-insulated brick or stucco walls. Continuous insulation produces 80 percent less carbon dioxide emission, uses 81 percent less energy, and reduces manufacturing waste by up to 75 percent.

The Five Planes of Control for the Ideal Building Envelope



Vapor Control Layer

Vapor permeable or impermeable per designer specification, controls the flow of water vapor from areas of high to low pressure minimizing condensation.



Air Control Layer

To limit the uncontrolled flow of air through the wall assembly, reducing condensation and energy loss.



Water Penetration Control Layer

Barrier inbound of the cladding, flashed to the exterior, designed and installed to prevent liquid water from entering the wall cavity.



Thermal Control Layer

Insulation to significantly reduce thermal bridging.



Durable, Water Shedding Layer

Functional finish surfaces connected to a resilient lamina in order to protect and divert water away from the wall.



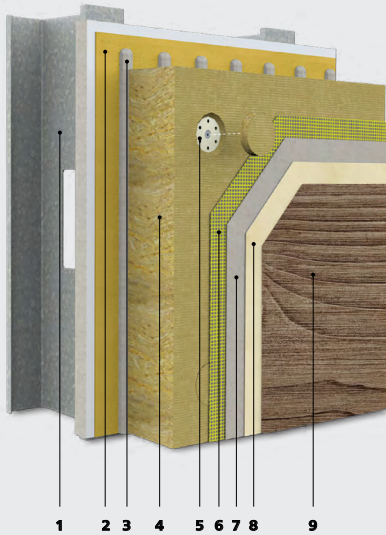
What system is right for you?

StoTherm ci comes in four system options customizable to your needs - Mineral, XPS, EPS and our newest offering, MVES, which is specifically designed for supporting masonry veneer surfaces. These fully integrated wall systems deliver the best in performance, sustainability and design flexibility while offering you a choice of insulation options to meet your thermal design needs. Superior thermal resistance results in high R-values that improve overall building efficiency.

The lightweight cladding system design of a StoTherm ci wall assembly incorporates continuous exterior insulation and a continuous air and moisture barrier. By providing superior moisture intrusion prevention along with substantial energy efficiency, StoTherm ci wall systems create a smarter building envelope that enhances interior climate control and comfort.



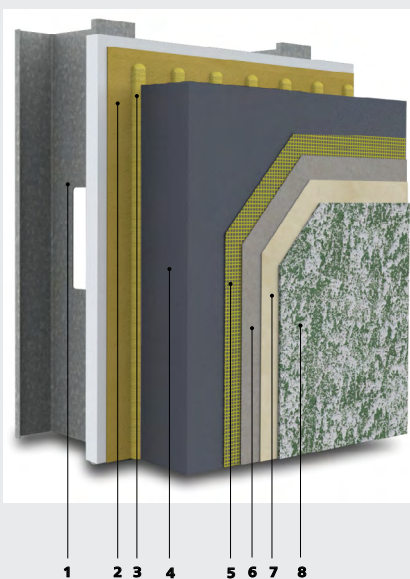
System	StoTherm ci Mineral	StoTherm ci XPS	StoTherm ci EPS	StoTherm ci MVES
Air and water-resistive barrier	✓	✓	✓	✓
Continuous Insulation	Mineral Wool	XPS	EPS	EPS
R-value	4 / inch	5 / inch	3.6 / inch	3.6 / inch
Insulation thickness	2, 3 and 4 inches	1 – 6 inches	1 – 12 inches	1 – 4 inches
Attachment method	mechanical	adhesive	adhesive	mechanical
Weight (not including sheathing and frame)	< 6 psf	< 2 psf	< 2 psf	< 15 psf
Wind Load Resistance	Tested up to + 292 lb/ft ²	Tested up to + 175 lbs/ft ²	Tested up to + 188 lbs/ft ²	Tested up to + 50 lbs/ft ²
Dark Color Aesthetic Surfaces (LRV < 20)	✓	Not recommended	Not recommended	Not recommended
Masonry Veneer Surfaces				✓
Fire Resistance	Noncombustible: use on all types of construction	NFPA 285 tested for Types I - IV Construction	NFPA 285 tested for Types I - IV Construction	NFPA 285 tested for Types I - IV Construction
System Warranty	Up to 15 years	Up to 15 years	Up to 15 years	12 years
EPD available	✓	✓	✓	



StoTherm® ci Mineral:

1. Structural Wall Assembly
2. StoGuard® air and water-resistive barrier
3. Sto BTS® Plus
4. Owens Corning Thermafiber® Mineral Wool
5. Sto Thermo Dowel with Sto Thermo Cap Wool
6. Sto® Mesh
7. Sto BTS® plus
8. StoPrime®
9. Sto Architectural Surface

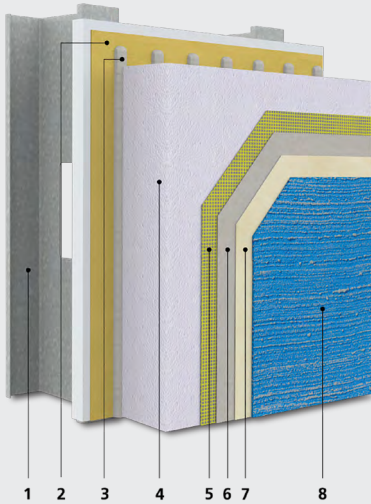
Features	Benefits
Fully integrated high density mineral wool insulation	Continuous exterior thermal control layers that resists fire and temperatures in excess of 2000° F
Specially designed dowel attachment system with EPS and mineral wool plugs	Limits thermal conductivity to the exterior
Fully integrated seamless air and moisture barrier	Fully compatible air, water, and vapor control layer from a single source
Wide range of aesthetic surfaces selection with virtually unlimited color and textures	Color and texture design freedom that includes really dark colors
Energy efficient	Lower utility bills, decreased energy consumption
Durable	Impact resistant, easy to maintain and repair, low maintenance cost decreased energy consumption



StoTherm® ci XPS

1. Structural Wall Assembly
2. StoGuard® air and water-resistive barrier
3. Sto Adhesive
4. XPS Continuous Insulation
5. Sto Mesh
6. Sto Basecoat
7. Sto Primer
8. Sto Architectural Surface

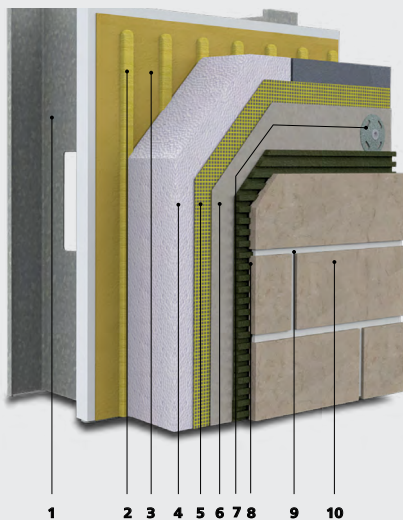
Features	Benefits
Continuous XPS insulation	High thermal efficiency with an R-value of 5/inch
Fast applying Sto TurboStick® Adhesive	Allows for same day installation of insulation and basecoat and mesh
Fully integrated seamless air and moisture barrier	Fully compatible air, water, and vapor control layer from a single source
Wide range of aesthetic surfaces, colors and textures, including speciality finishes	Design freedom
Energy Efficient	Lower utility bills, decreased energy consumption
Durable	Easy to maintain and repair, low maintenance cost
Fire Resistant	Type I-IV Construction



StoTherm® ci EPS

1. Structural Wall Assembly
2. StoGuard air and water-resistive barrier
3. Sto Adhesive
4. Sto EPS Insulation Board
5. Sto Mesh
6. Sto Basecoat
7. Sto Primer
8. Sto Architectural Surface

Features	Benefits
Continuous exterior EPS insulation, no mechanical fasteners	Permeable, high thermal efficient insulation with an R-value of 3.6/inch
Fully integrated seamless air and moisture barrier	Fully compatible air, water, and vapor control layer from a single source
Wide range of finish colors and textures including specialty finishes	Design freedom
Durable	Impact resistant, easy to maintain and repair, low maintenance cost
Fire Resistant	Type I-IV Construction
Energy Efficient	Lower energy bills, decreased energy consumption



StoTherm® ci MVES

1. Structural Wall Assembly
2. StoGuard air and water-resistive barrier with Sto Gold Coat
3. Sto TurboStick®
4. Sto EPS / XPS Insulation Board
5. Sto 6oz Mesh
6. Sto Primer/Adhesive
7. Fastener
8. StoColl
9. Masonry veneer grout
10. Masonry veneer surface: featured here with Brick

Features	Benefits
Continuous EPS Insulation	High thermal efficiency with an R-value of up to 5/inch
Fully integrated seamless air and moisture barrier	Protects against mold and moisture intrusion
Variety of Masonry Veneers - Brick, Stone, Tile - that integrate seamlessly with Sto Aesthetic Surfaces	Design freedom
Energy Efficient	Lowers utility bills, decreases energy consumption
Durable	Impact resistant system uses polymer modified basecoat, mesh, and high tensile strength mortar
Fire Resistant	Type I-IV Construction



Transformation through restoration

The A.R.T. of reStore®

A	Aesthetics
R	Repair
T	Transformation

“The Greenest Building Is... One That Is Already Built” – Carl Elefante

Several studies have shown that existing buildings account for up to 75% of a major city’s greenhouse gas emissions. As major cities employ climate protection strategies, deep energy retrofits of existing buildings are at the very top of their priority lists. Organizations like LEED, Retrofit New York, and Passive House all agree that a fully engineered facade system with continuous insulation and an airtight envelope is the only way for existing buildings to meet the strict energy efficiency standards that have already begun to roll out.

StoTherm ci systems offer the perfect solution for achieving these energy efficiency standards, with minimal disruption to the building occupant. An overclad or reclad with a StoTherm ci system provides the air and moisture barrier and continuous insulation that many of these buildings lack. Add in the aesthetic options available with StoTherm ci systems, and you have the opportunity to completely transform an existing building or revitalize it to its original aesthetic splendor with the added benefits of energy performance and increased occupant comfort.



The A.R.T. of reStore®

The A.R.T. of reStore is an innovative approach to restoration that includes a focus on structural aesthetics, repair, and transformation. Sto offers the most advanced holistic solutions for restoring worn-out building facades, adding both beauty and performance. Sto provides the resources, materials, and services you need to address all project specifications. Whether you need basic maintenance or want to re-conceptualize the facade, Sto helps you update and repair your building’s exterior while creating the aesthetic you desire

Sto Studio

With Sto Studio, you have a complete project management team and design department at your disposal. We can assist you throughout the architectural design process, working closely with you to create a facade concept, refine and edit as needed, then produce deliverables for final approval and implementation.

Sto Studio services include:

- Rendering and visualizations
- Color presentations
- Full color collection library
- Local marketing concepts
- Trend research and reference materials
- International design team



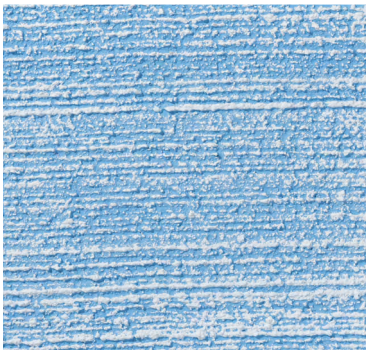
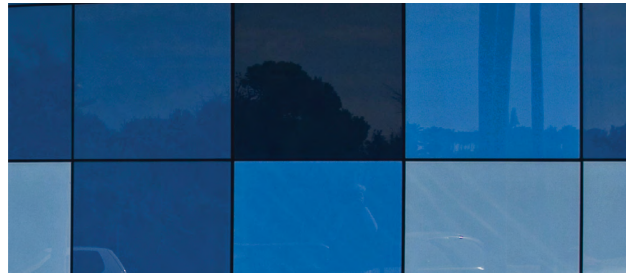


The only limit is your imagination

Inspiration favors the open mind. With Sto, your creative exploration can take you anywhere. Our proven products give you unmatched freedom and the ability to achieve your vision in any color, any form, any texture, any material.

Regardless of what inspires you or fuels your passion, the right catalyst can transform your ideas into an astounding visual that captivates viewers and gets people talking. Our vision is to provide an architectural platform that gives you unlimited creative potential with all the resources you need to complete your project. Your artistic taste paired with our tools and materials result in a facade or wall system that revitalizes your structure and provides a sustainable, energy-efficient building environment. Through innovation, expertise, and a focus on performance, Sto is there wherever your inspiration leads.

Creativity Begins. **Sto Finishes.**®



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