



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

## Unrivalled 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.

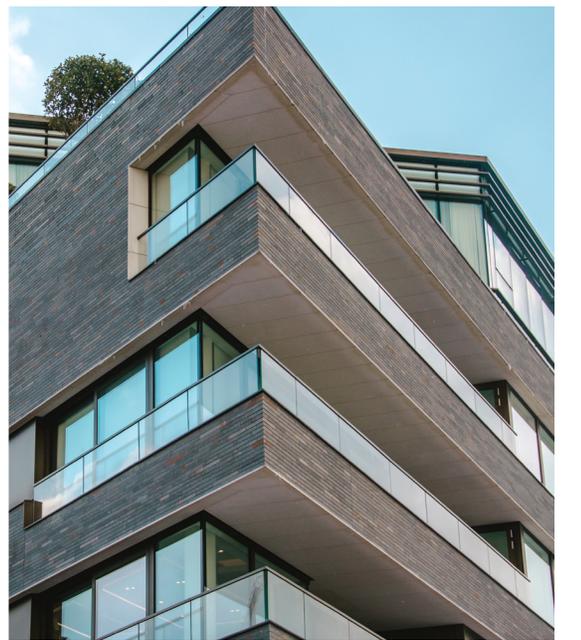
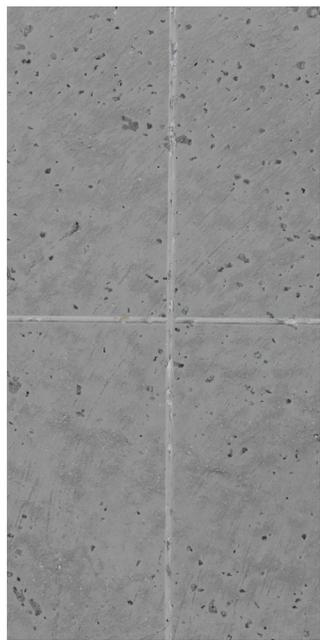
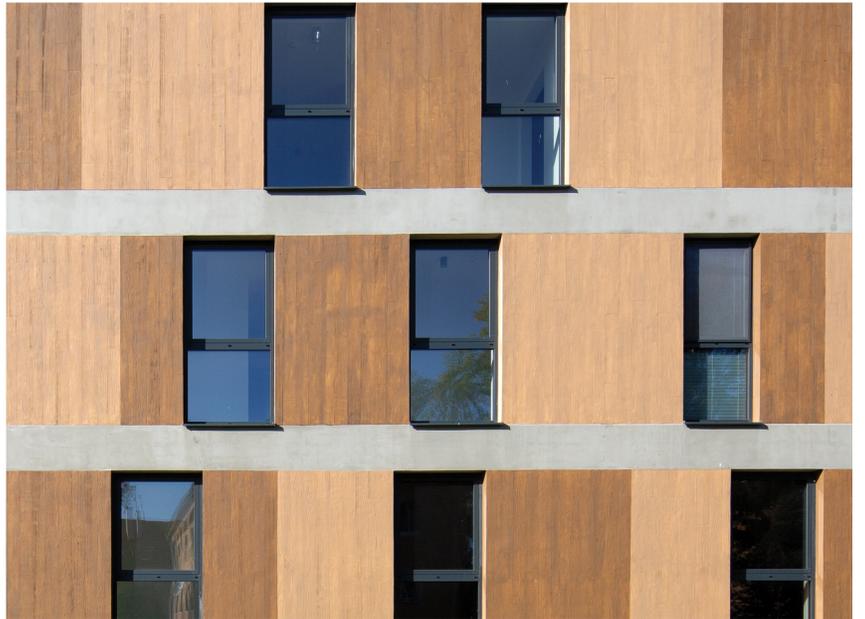
### Long Term Beauty with Minimal Maintenance

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 Sto GPS, mineral wool, XPS, or Sto EPS. StoSeal™ STPE, our low modulus non sag sealant, provides ultimate protection in sealing the building envelope. 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 and Code Compliance

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. With Sto Fireblocking option, Sto also offers a unique patent pending solution to comply with the 2022 New York City Building Code (NYC BC), which requires fireblocking for exterior wall assemblies that contain combustible components such as foam plastic insulation stated in BC 718.2.6.

## Durability

StoTherm ci systems provide exceptional durability and added protection with Sto Strike Defense. Whether mitigating woodpeckers with the Sto Strike Defense option or offering ultra-high impact resistance to blunt and sharp objects, these systems also protect against hurricane and tropical storm winds, water intrusion, and wind-borne debris with Sto Strike Defense and Sto's high-impact meshes.

Note: Sto Hurricane Impact Systems meet the stringent Miami-Dade county, Florida NOA criteria for impact resistance, air and water infiltration, and wind load resistance.

## Sustainable

In addition, StoTherm ci wall systems reduce the carbon footprint of structures more effectively than non-insulated brick or stucco walls. Continuous insulation results in 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, GPS, EPS, and XPS continuous insulation. 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.

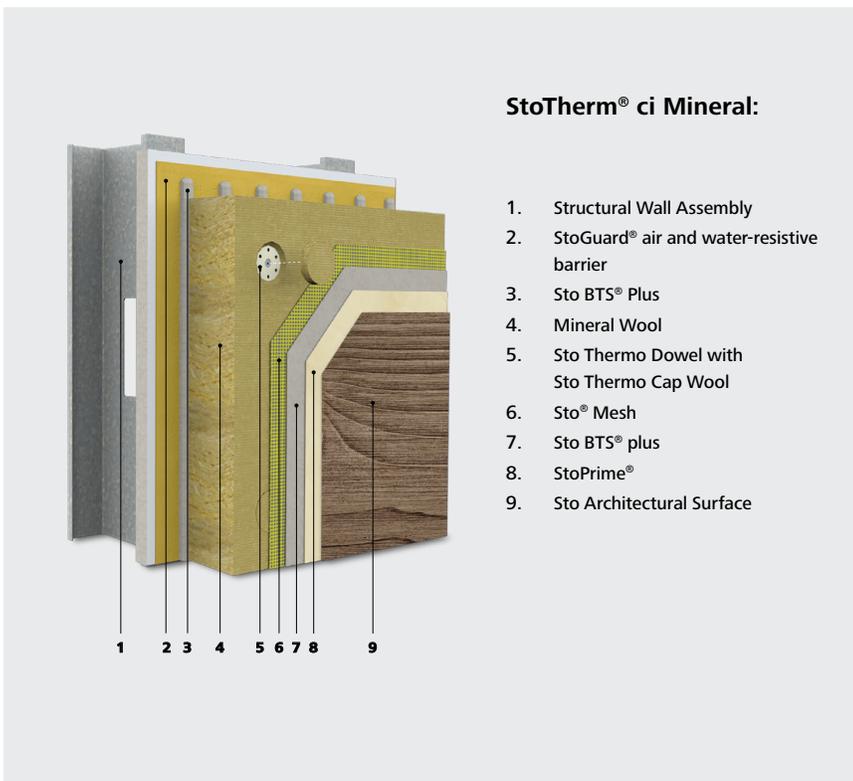
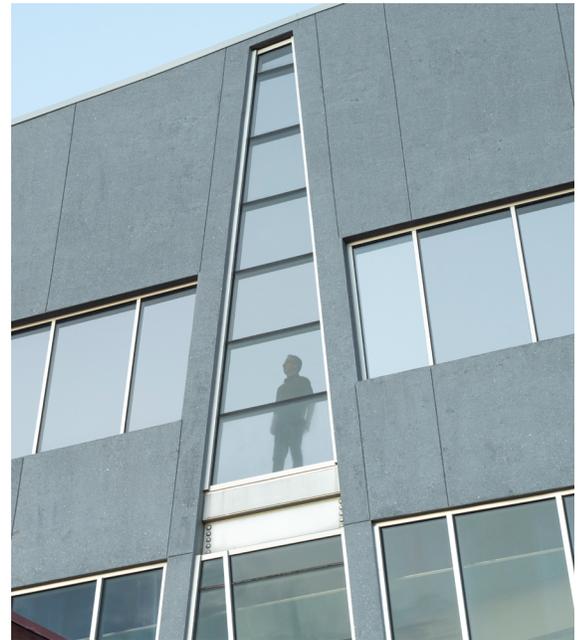


System	StoTherm ci Mineral	StoTherm ci GPS	StoTherm ci EPS	StoTherm ci MVES	StoTherm ci XPS
Air and water-resistive barrier	✓	✓	✓	✓	✓
Continuous Insulation	Mineral Wool	GPS	EPS	GPS or EPS	XPS
R-value	4 / inch	4.7 / inch	3.6 / inch	4.7 / inch or 3.6 / inch	5 / inch
Insulation thickness	2, 3 and 4 inches	1 – 12 inches	1 – 12 inches	1 – 4 inches	1 – 6 inches
Attachment method	Mechanical	Adhesive	Adhesive	Mechanical when >10' Above grade	Adhesive
Weight (not including sheathing and frame)	< 6 psf	< 2 psf	< 2 psf	< 15 psf	< 2 psf
Wind Load Resistance	Tested up to + 292 lb/ft²	Tested up to + 188 lbs/ft²	Tested up to + 188 lbs/ft²	Tested up to + 50 lbs/ft²	Tested up to + 175 lbs/ft²
Dark Color Aesthetic Surfaces (LRV < 20)	✓	Not recommended	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	NFPA 285 tested for Types I - IV Construction
Sto Fireblocking	Not needed	✓	✓		
Sto Strike Defense		✓	✓		✓
System Warranty	Up to 15 years	Up to 15 years	Up to 15 years	12 years	Up to 15 years
EPD available	✓	✓	✓		✓

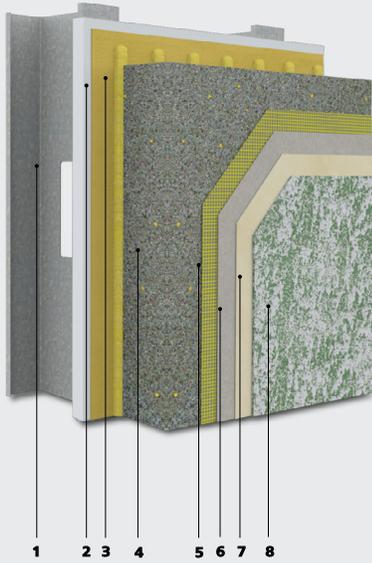


# All StoTherm ci systems feature:

1. A fully integrated and seamless air and moisture barrier to promote compatibility and continuity of the air/water/vapor control layer
2. Continuous insulation to boost buildings energy efficiency and decrease energy consumption
3. A wide range of aesthetic surfaces selection to ensure design freedom
4. Durable system with ultra impact resistant facade, easy to maintain and repair and therefore with low maintenance cost
5. Code compliant and fire resistant as all our system comply with NFPA 285, NFPA 268 and ASTM E84 and can used in type I-IV construction



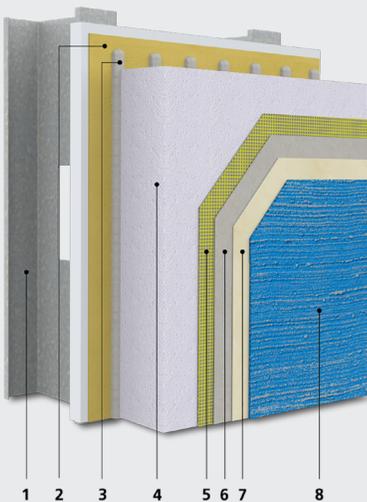
Features	Benefits
Continuous Sto Mineral insulation	High thermal efficiency with an R-value of 4 / inch, thinner walls
Fully integrated high density mineral wool insulation	Continuous exterior thermal control layers that resists fire and temperatures in excess of 2000° F
Specially designed dowel attachment system with EPS and mineral wool plugs	Limits thermal conductivity to the exterior
Highly permeable insulation	>40 perms; allows the building envelope to breath and help with moisture control
Non-combustible insulation	Able to withstand temperatures up to 2100°F



### StoTherm® ci GPS

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

Features	Benefits
Continuous Sto GPS insulation	High thermal efficiency with an R-value of 4.7 / inch
Fast applying Sto TurboStick® Adhesive	Allows for same day installation of insulation and basecoat and mesh
Compatible with Sto Strike Defense option	Protection against woodpeckers, blunt and sharp objects. Optimal impact protection
Compatible with Sto Fireblocking option	Engineered and patent pending solution to offer compliance with New York City 2022 Building Code, section 718.2.6



### 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 EPS insulation	Permeable, high thermal efficient insulation with an R-value of 3.6 / inch
Compatible with Sto Strike Defense option	Protection against woodpeckers, blunt and sharp objects. Optimal impact protection
Compatible with Sto Fireblocking option	Engineered and patent pending solution to offer compliance with New York City 2022 Building Code, section 718.2.6



### StoTherm® ci MVES

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

Features	Benefits
Continuous GPS or EPS insulation	High thermal efficiency with an R-value of up to 4.7 / inch
Variety of Masonry Veneers - Brick, Stone, Tile - that integrate seamlessly with Sto Aesthetic Surfaces	Design freedom
Durable	Impact resistant system uses polymer modified basecoat, mesh, and high tensile strength mortar

### StoTherm® ci XPS

1. Structural Wall Assembly
2. StoGuard® air and water-resistant barrier
3. Sto TurboStick®
4. XPS Insulation Board
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



# Transformation through restoration

The A.R.T. of reStore®

A	Aesthetics
R	Repair
T	Transformation

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 Greenest Building is...  
One that is Already Built”**

– Carl Elefante



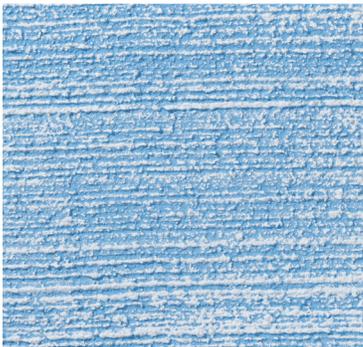


# The only limit is your imagination

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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