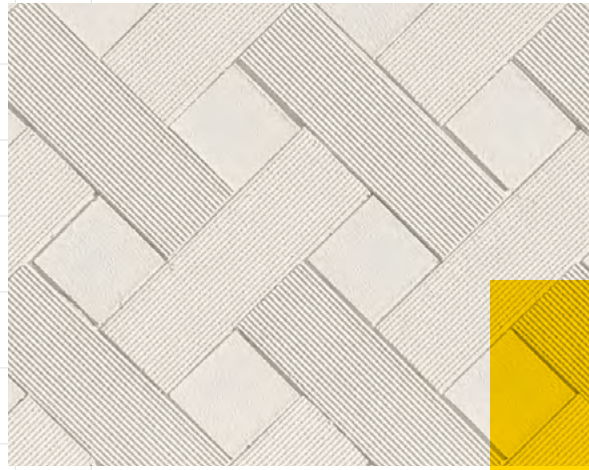


# Surface + Structure

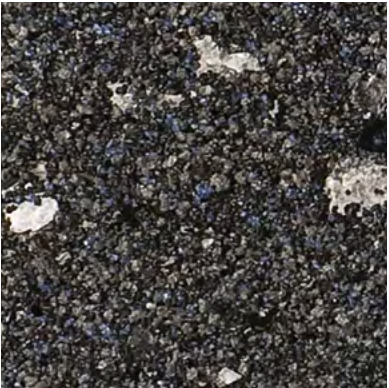
Exploring the StoVentec® Rainscreen® Systems





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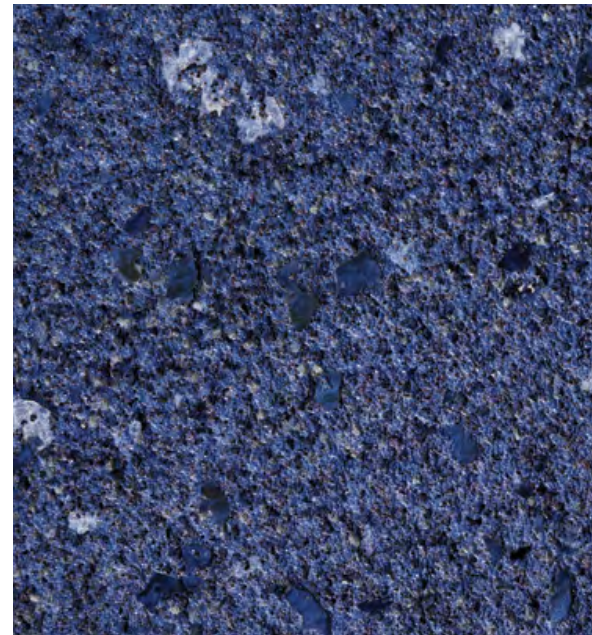
# A Legacy of Facade Innovation and Building Science

Since introducing the world's most energy-efficient insulation and finishing system in 1963, Sto has consistently pursued technological progress.

We have set industry benchmarks and established a vast network to support our customers worldwide and our numerous successful global projects.

This legacy of success has enabled us to focus on commitment to sustainability, safety, continuous innovation, and health throughout our products' lives. We make decisions for the well-being of our people, communities, and the planet. These core values guide the choices we make both in the office and on-site.

**That's why "Building with Conscience" is not just our tagline; it's our DNA.**



## Our core values: sustainability, performance, and design flexibility.

Sto's integrated wall systems offer top performance, sustainability, and design flexibility.

Our complete system approach incorporates all planes of control for the building envelope—air and moisture barrier, thermal insulation, and aesthetic facade—in a single, tested, code-compliant, and warranted solution. With a wide range of aesthetics, our offerings surpass traditional materials with enhanced performance, longer lifecycles, and lower environmental impact. They are suitable for both field-built and prefabricated construction. For you, this means endless aesthetic options and the freedom to realize your vision confidently with Sto solutions. You can integrate multiple aesthetics without the design complications of transitions between systems.

In short, you have a reliable, trusted source for your building's entire exterior.





# StoVentec®: A Natural Evolution From Our Rainscreen Technology

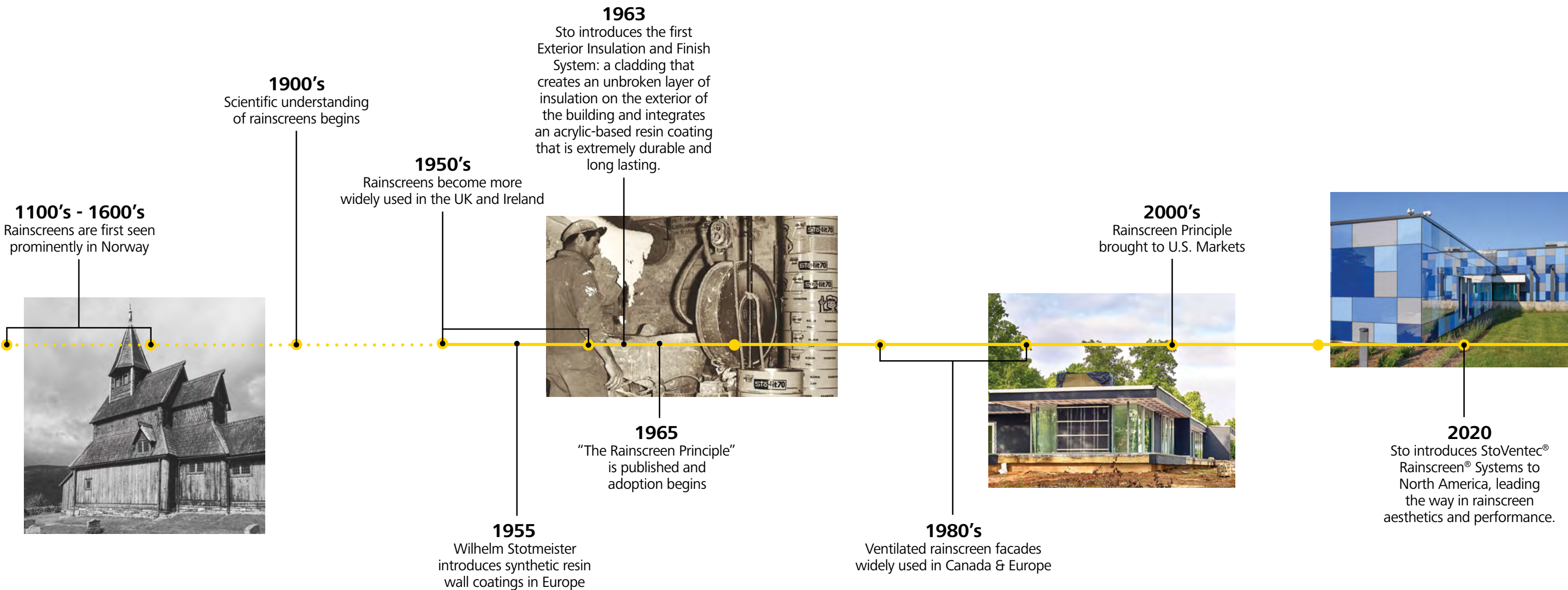
Rainscreens originated over a thousand years ago. Originally offering protection from the elements, they have evolved significantly in form and function, shaped by advances in building science and technology.

Today, rainscreens are multi-layered systems that integrate an outer cladding, a ventilation cavity, insulation, and a water-resistive barrier to provide superior performance in water management, thermal efficiency, and durability.

StoVentec® exemplifies this evolution. Offering customizable architectural surfaces like opaque glass, textured render, high-density fiber cement, and vibrant colors, StoVentec® allows architects to create unique designs that deliver high performance and energy efficiency that can lower long-term maintenance and

energy costs for new constructions and renovations alike. With the use of recyclable materials, StoVentec® offers an environmentally responsible choice that enhances sustainable building practices.

StoVentec® rainscreens already provide unparalleled protection, performance, and aesthetics. And as rainscreen technology continues to evolve, StoVentec® will be leading the way.





# The Language of Surfaces

Architecture, like all art forms, has its own language, rooted in form, such as textures, colors, shapes, and function, which ensures elements work together for optimal building performance.

At Sto, we understand this language of form and function. Our systems provide a wide variety of surfaces, including glass, render, masonry veneer (MVF), and fiber cement, all designed to enhance building performance and support any design vision.

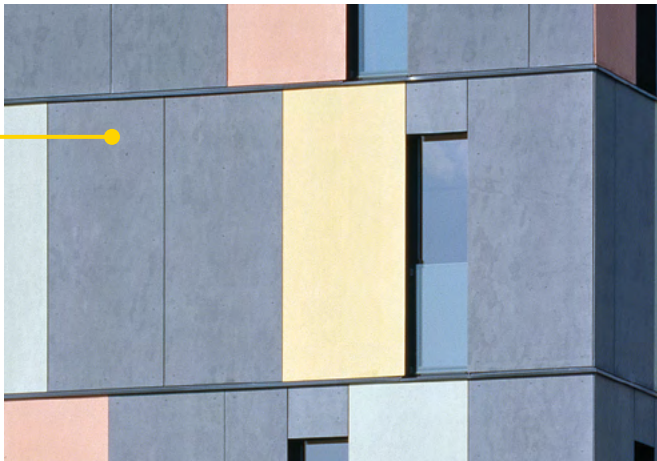
## StoVentec® Glass

Tailored panels are available in a wide range of formats, light-stable colors, custom printed aesthetics, and shapes.



## StoVentec® Fiber Cement

Panels can be custom-fabricated into various shapes, offering unparalleled design versatility in a time-tested durable, code-complaint, noncombustible cladding material suitable for both modern and traditional architecture.



## StoVentec® for Masonry Veneer Facades (MVF)

Lightweight, energy efficient, innovative wall system with a masonry veneer of thin brick that integrates seamlessly with other Sto finishes and cladding materials.



## StoVentec® Render

Combines innovative materials, such as StoCast custom resin cast shapes, StoSignature effects, iQ Technology and Sto's specialty aesthetic finishes and coatings with proven products and practices in a wall system blending unique, elegant beauty with economical construction, performance, reliability and durability.



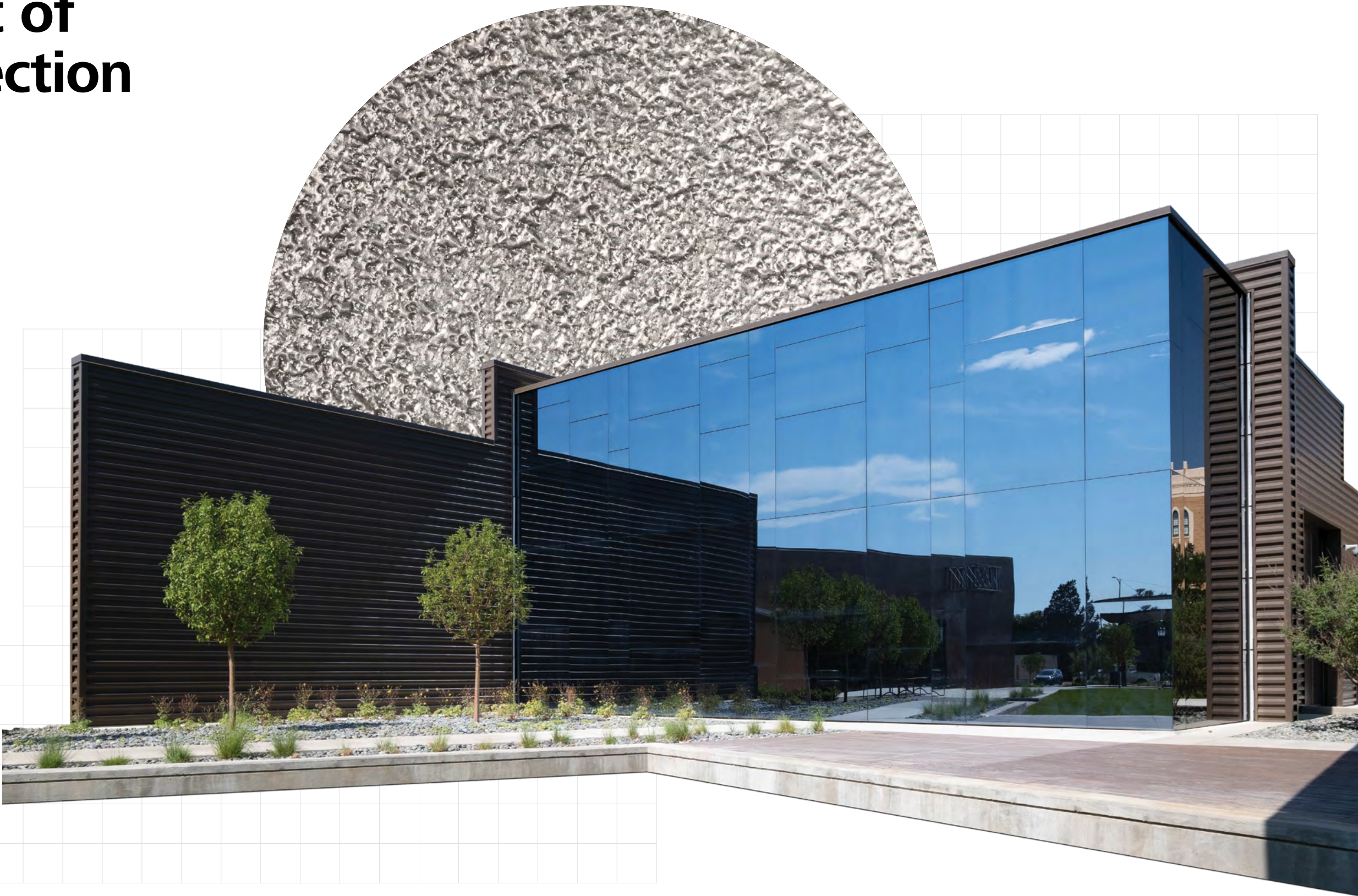


# Glass: The Art of Depth & Reflection

Glass is a highly versatile design element that reflects, protects, and reveals, and can make a powerful architectural statement.

StoVentec® Glass offers tempered panels for greater durability and resistance. Available in various shapes—square, rectangular, trapezoidal, and parallelogram—that can be installed with non-visible StoVentec Sub-construction, eliminating visible frames or fixtures. Panels can be screen-printed for unique patterns, images, and logos that endure over time, and multiple panels can be bonded to the same StoVentec® Carrier Board to create stripes or patterns.

The StoVentec® Glass system is air and water-resistive, thermally efficient, and thoroughly tested and engineered. It carries a single-source warranty and meets North American code requirements, including ISO 16933 blast testing. Durable and visually appealing, StoVentec® Glass opens unique design possibilities with reliable performance.

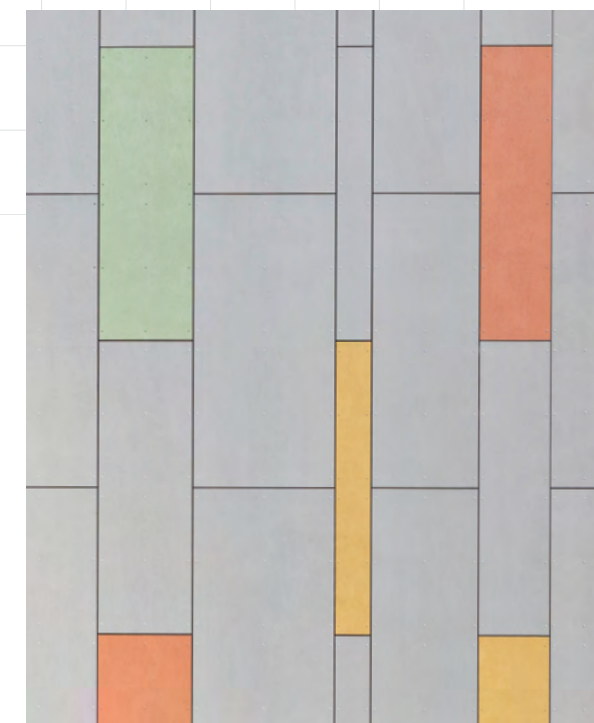
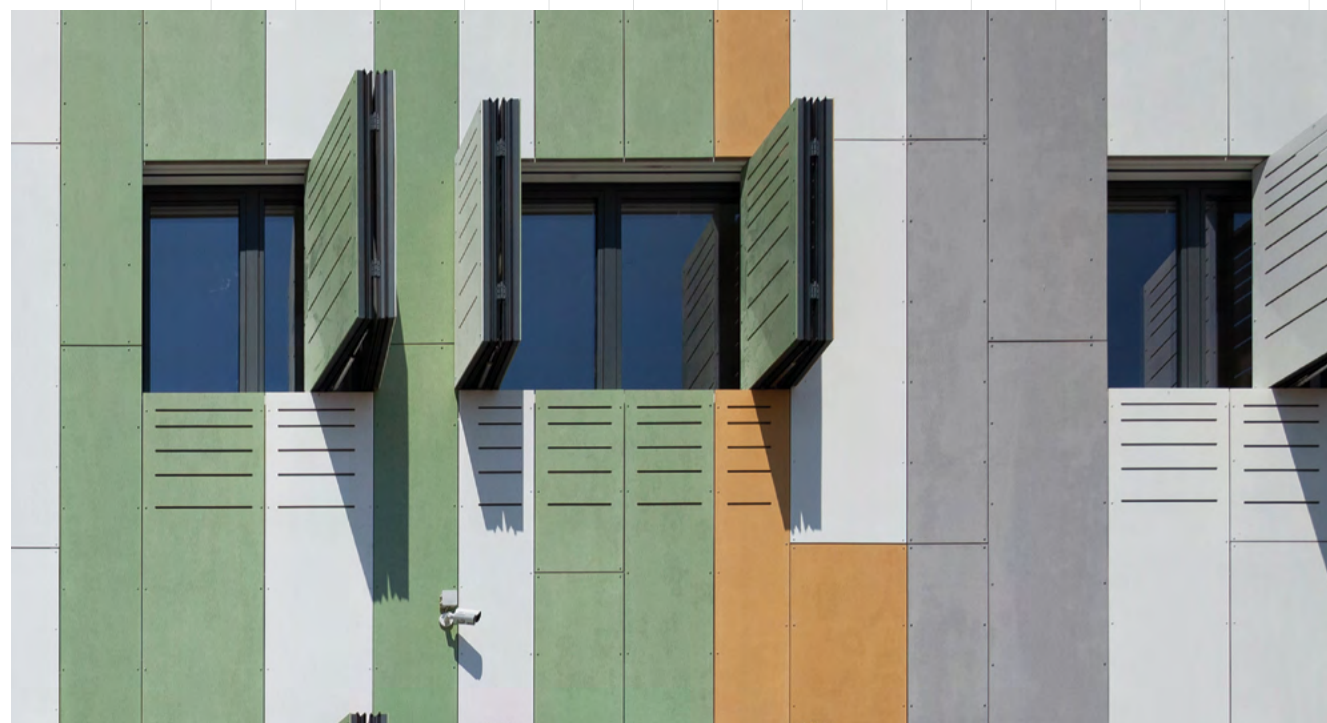
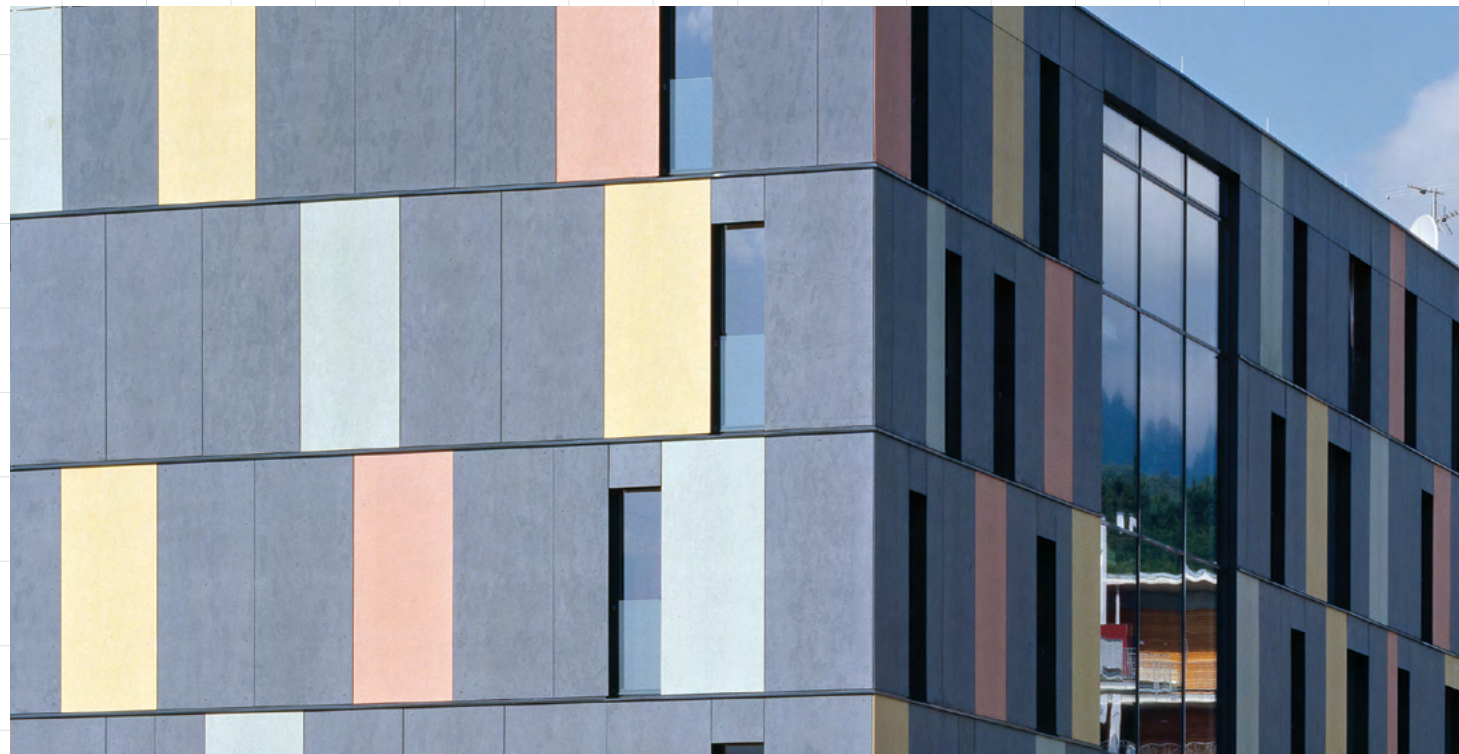




# The Richness of Texture: Fiber Cement, Render and MVF

Texture plays a vital role in architecture. It affects how a building looks, how it feels, how light and sound interact with it, and its performance. In fact, it is one of the most important considerations in designing a building envelope.

That's why Sto places so much emphasis on the design possibilities offered by our systems. Whether your vision calls for textured, smooth, or patterned aesthetic, Sto has a solution to achieve it – from fiber cement to render to MVF.



## StoVentec® Fiber Cement

StoVentec® Fiber Cement Rainscreen® Systems blend designer aesthetics with advanced energy efficiency for an exceptional building envelope. An air and water-resistant barrier offers protection, a sturdy ZAM (Zinc-Aluminum-Magnesium) or steel sub-construction provides for air circulation and drainage, mineral wool insulation delivers fire resistance and acoustical control, and high-density fiber cement panels come in various finish colors, with options for pigmented bodies, pre-engineered, visible or concealed fixings, ASTM C1186 testing and smooth or light sanded textures.



**StoVentec® Render**

With StoVentec® Render, creative possibilities are virtually limitless. Choose from a wide range of premium finishes, shapes, textures, effects, and properties, including styles that resemble real brick and wood. You can also combine finishes for unique multi-cladding aesthetics.

The system uses premium materials that work together seamlessly: Sto AirSeal® or StoShield™ SA water-resistive products, ROCKWOOL Cavityrock® for thermal insulation and sound control, German-engineered StoVentro™ Sub-construction, and the StoVentec Carrier Board, a structural glass composite board that can achieve curved surfaces. And Sto iQ technology™ features self-cleaning properties to keep buildings looking new for years.



**StoVentec® MVF**

StoVentec® for masonry veneer facades is a lightweight, drained, and back-ventilated rainscreen system featuring adhered thin brick veneer. This innovative system includes continuous insulation, sub-construction, and an air and water-resistive barrier, seamlessly integrating with other Sto surfaces like StoVentec® Glass and StoVentec® Render.

StoVentec® MVF combines the proven performance of the StoVentec® Rainscreen® system with the durability of thin brick veneer, providing flexibility in form and function while integrating with Sto’s engineered wall systems.





# Inspiration Meets Innovation

Modern architecture is a constant give and take between innovative design and the limits of technical performance.

For more than 60 years, Sto has pushed the boundaries of architectural design – advancing efficiency, durability, and sustainability through rainscreen innovation.



**Print Your  
Story in Glass**

With StoVentec® printed glass, facades do more than protect—they tell your story in stunning, durable detail.

**Material.  
Shape. Impact.**

From sleek fiber cement and elegant glass to rich masonry veneers and textured render, StoVentec® seamlessly integrates diverse materials. Our design empowers architects to blend multiple textures and finishes, creating cohesive, layered facades that deliver both striking visual depth and exceptional performance.



Photography by Brian Phelps



**Bend the Rules**

Curved surfaces. Continuous insulation. Clean lines. With StoVentec®, you don't compromise—on beauty or performance.



**Not Just a Surface**

StoVentec® delivers rich textures without compromising rainscreen protection.

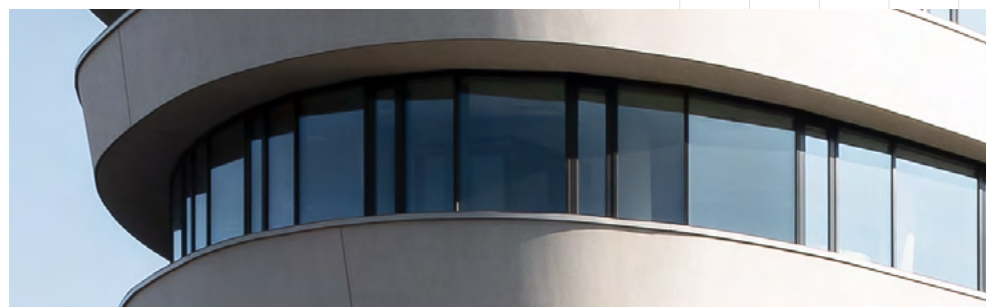
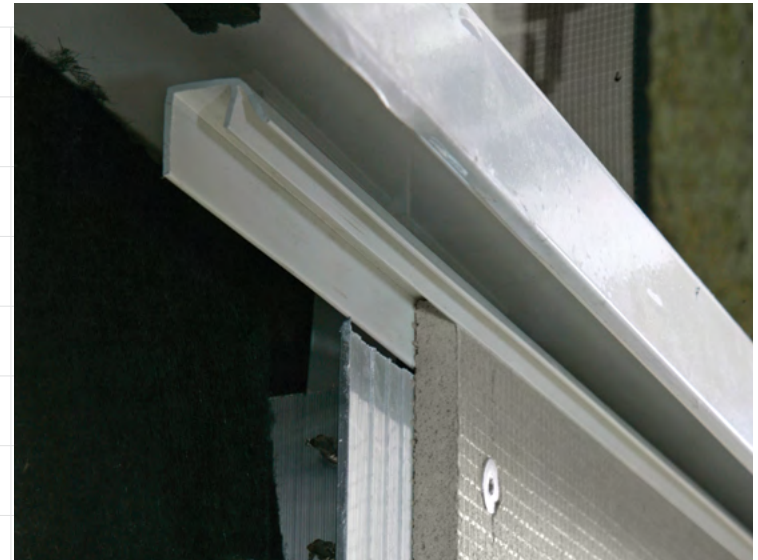
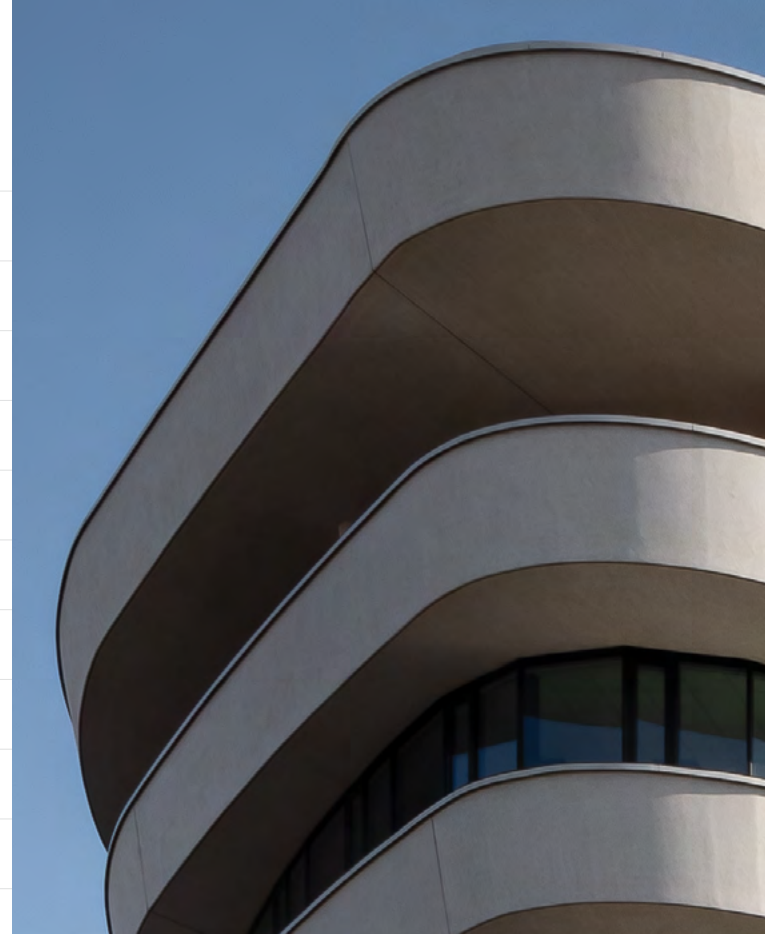




# The System Beneath the Surface

Beyond the beauty of its many cladding design options, the StoVentec Rainscreen system also delivers maximum functionality and safety.

The core of this functionality is the StoVentro™ sub-construction, an invisible yet crucial support structure for rainscreen facades. StoVentro™ effectively absorbs wind and dead loads, redirecting them into the substrate. It is easy to install, adjustable to uneven substrates, stable, corrosion-resistant, and combines galvanized steel or ZAM components for economy, energy efficiency, and the structural requirements needed to optimize either new construction or retrofit projects.





# Performance Beneath Every Panel

## Structural Wall Assembly

### Air and Weather-resistive Barrier – Wall Membrane

- Wall Membrane: Sto AirSeal® or StoShield™ SA
- Sheathing Joints & Corners: Sto RapidGuard®
- Rough Opening Protection: Sto RapidGuard®
- Flashing and Penetration: Sto RapidGuard®
- Dynamic Joints: StoGuard® Conformable Membrane

### StoVentro™ Bracket

- Adjustable support brackets for vertical T & L profiles
- In ZAM or galvanized steel
- Anchored into the substrate
- Adjustable - accommodates substrate irregularities for precise alignment of cladding elements
- Optional - Integrated retainer for easy installation of StoVentro T & L profiles

## Insulation

ROCKWOOL Cavityrock®, a semi-rigid insulation board specifically designed for exterior cavity wall and rainscreen applications.

## StoVentro™ Rail

Aluminum rails available in both T and L-profiles

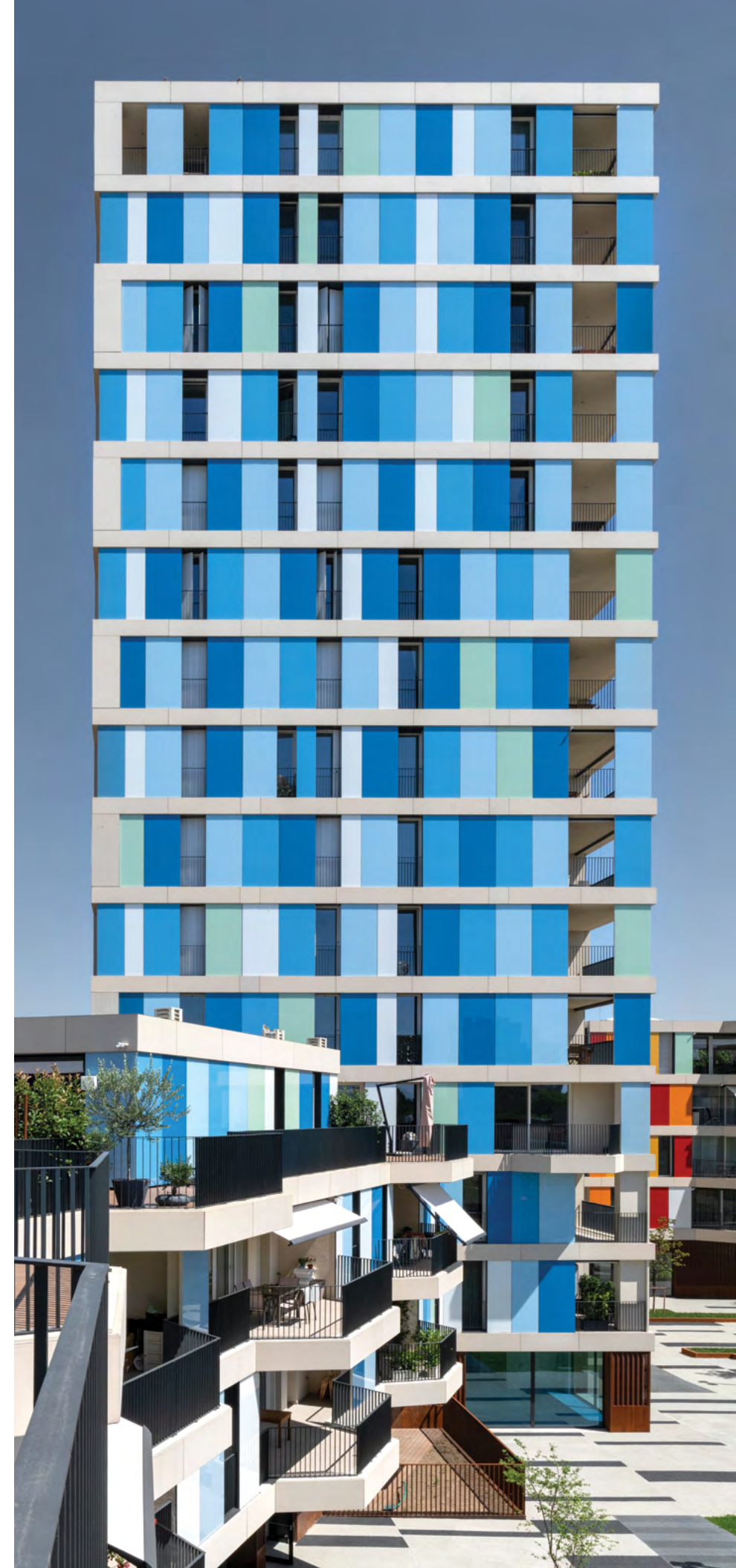
## Architectural Surface

StoVentro™ can be paired with a wide variety of surfaces within the StoVentec® System , including glass, render, masonry veneer (MVF), and fiber cement.

## Proven to Perform

The StoVentec® Rainscreen® system has been rigorously tested by accredited labs and verified by engineers to meet fire, weather, and impact standards—including the stringent 2022 NYC Building Code and High-Velocity Hurricane Zone (HVHZ requirements).







# Our Products Beautify Facades. Our Commitment to Design Goes Deeper.

When inspiration strikes, the right tools can help bring your vision to life. Sto offers a full range of design programs and services to ensure your creative vision aligns with the final project.



## StoInspire™

Visualizer lets you explore Sto's diverse surfaces, textures, and colors to create unique designs.



## Sto Studio

Connects you with design professionals to develop a complete facade concept, including color and material choices.



## Aesthetic + Product Selector

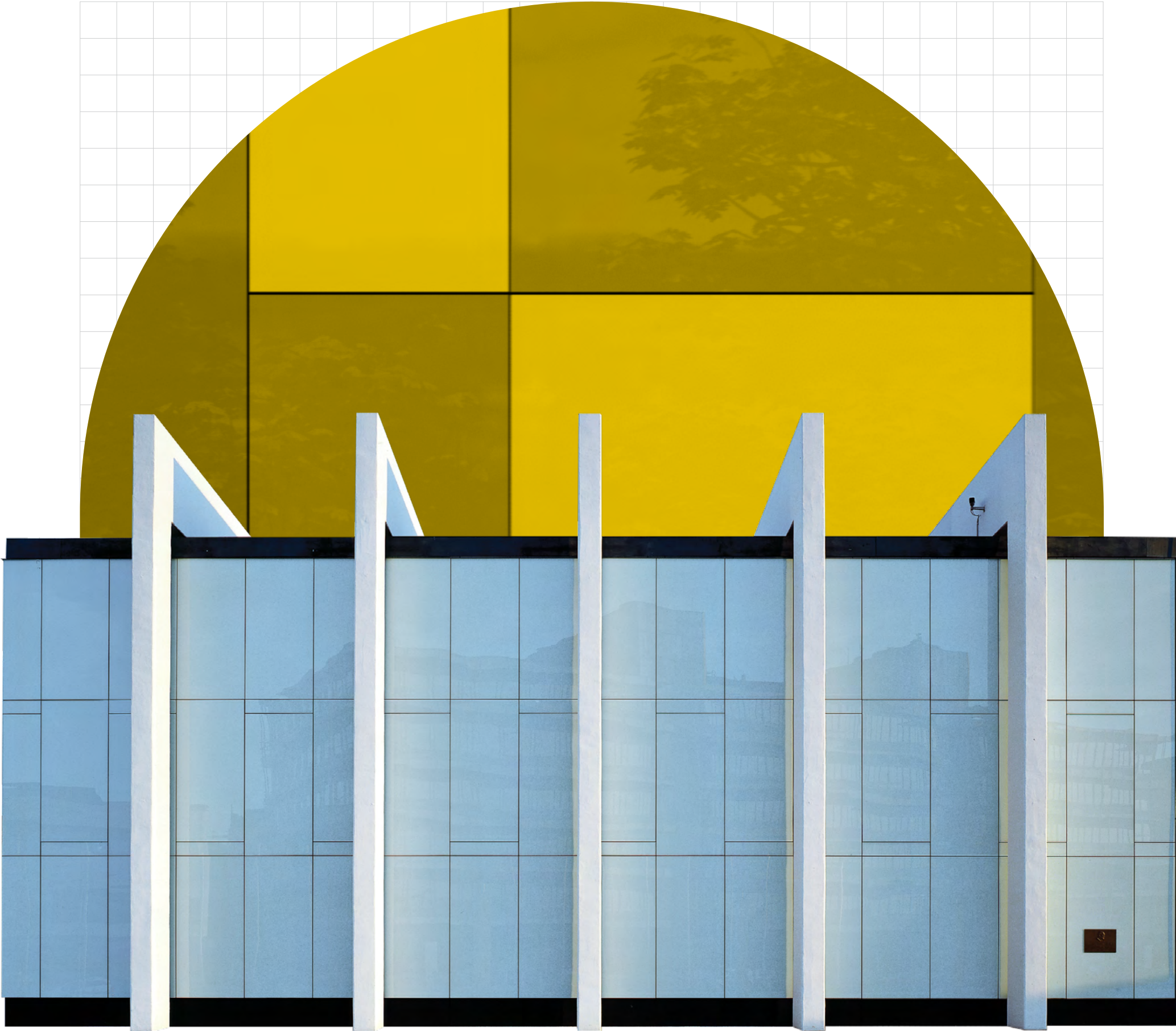
Simplifies the process of achieving your desired aesthetic, allowing selections based on look, material, process, or texture. It provides tailored options and details on incorporating them into Sto wall systems.



## Sto Color Collection

Offers an intuitive tool for architectural color planning, guiding interior and exterior design decisions.

Start designing your vision.







# Achieve Your Design Vision with Sto

With over 100 years of experience, Sto helps architects bring their visions to life with innovative, reliable and high-performance building envelope solutions designed to address the challenges of modern architecture. Sto’s building envelope solutions combine all the necessary performance components – air- and water-resistive barrier, thermal and sound insulation and structural reinforcement – with a wide range of aesthetic surfaces, from rainscreen to stucco. And all of our rainscreen systems are pre-tested and carry a 10-year warranty.

From exploring new materials to design options; from retrofit to new construction; from pre-engineered options to custom looks, Sto is the single-source partner you can trust to help make your vision a reality.

**Elevate your next facade.**



**Sto Americas**

**Sto Corp.**  
3800 Camp Creek Parkway  
Building 1400 Suite 120  
Atlanta, GA 30331  
USA  
Phone 1-800-221-2397  
[www.stocorp.com](http://www.stocorp.com)