elemex®

Architectural Facade Systems

Scan for more!

Index

Design-driven. Performance-proven.

Elemex empowers architectural innovation through advanced facade systems, seamless technology, and expert support—transforming bold visions into enduring realities.

Pickering Casino, Pickering, ON

SOLSTEX®

SOLAR FACADE SYSTEM

Genentech, Oceanside, CA

Features & Benefits

Eco-Efficient

With the smallest carbon footprint and lowest water usage during manufacturing, Solstex® panels are the photovoltaic (PV) industry's most eco-efficient.

LEED Compliance

Use of the Solstex® Facade System lessens a building's dependence on energy generated by fossil fuels and can earn up to five LEED credits.

Reliable Return / High Return

The Solstex® Facade System generates energy savings that will have covered the cost of installation after 10-12 years.

Design Flexibility

Leveraging Elemex's proprietary Unity® technology, Solstex® can be seamlessly integrated with other Elemex® facade systems to provide flush planes and unparalleled design flexibility.

Large Format

Solstex® large format panels maximize facade coverage and energy production.

Lightweight

At a standard weight of less than 3.5-5.5 lbs per square foot, the Solstex® Facade System is designed to make the installation as easy as possible.

Harness the Power of Solar

Efficient. Sustainable. Renewable.

With sustainable innovation, Solstex® powers your building using a solar-integrated facade that generates clean energy, while enhancing architectural design.

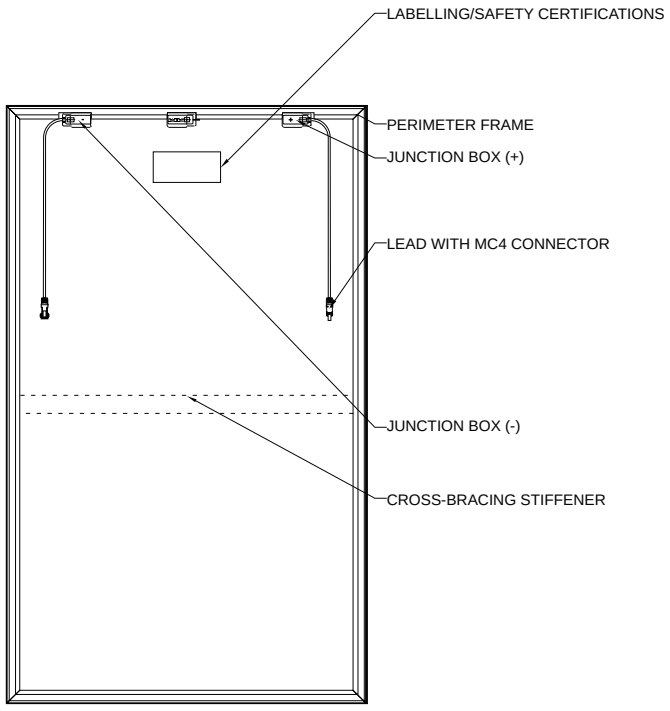
Weather Resistant

Solstex® panels have been independently tested and certified to provide reliable performance that exceeds IEC standards in high temperature, high humidity, and extreme weather, including rain and snow.

High-Efficiency

Solstex® panels deliver significantly more energy than other BIPV panels, at up to 16.5 W/sq. ft.

The Solstex® Solar Facade System by Elemex® is made from high-efficiency photovoltaic (PV) panels that are engineered to be weather-resistant and lightweight. Each large-format, code-compliant panel generates up to 16.5 W/sq.ft., reducing your building's dependence on fossil fuels, earning LEED credits, and generating savings that can cover installation costs within 10-12 years. They are designed to seamlessly integrate with other Elemex® products including: Ceramitex®, Stonitex® and Alumitex® facade systems.



Model	Nominal Power [W]	Voltage at Pmax	Current at Pmax [I]	Efficiency [%]	Open Circuit Voltage [V]	Short Circuit Current
O-Series (1000 mm x 1700 mm)	97 - 303	32	3 - 9.5 A	6 - 18	41	3.1 - 9.8 A
O-Series (1000 mm x 2000 mm)	113 - 354	39	2.9 - 9.1 A	6 - 18	49	3 - 9.41 A

Product Specifications

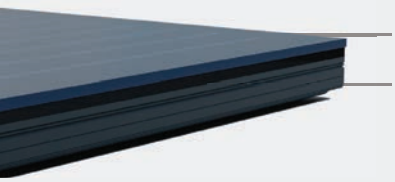
Composition + Materials

Solstex® Solar Panels consist ofcrystalline silicone technology encapsulated between 2 sheets of heat-strengthened glass, adhered to our proprietary Unity® attachment technology.

Standard Panel Size (actual face size of panel)**:**
Solstex® O-Series - 39 3/8" x 67" (1000 mm x 1700 mm)
Solstex® O-Series - 39 3/8" x 78 3/4" (1000 mm x 2000 mm)

Watts / Panel: Solstex® O-Series -
Up to 356 W (Standard Size)

Standard Measurements:



O-Series - 10/32" (8 mm)

System depth - 31/32" (50 mm)

Weight: Approximately 5 lbs/sq. ft. (depending on chosen panel)

Finish: O-Series - 5/32" (4 mm) Tempered Low-Iron Glass with a Tempered Glass back.

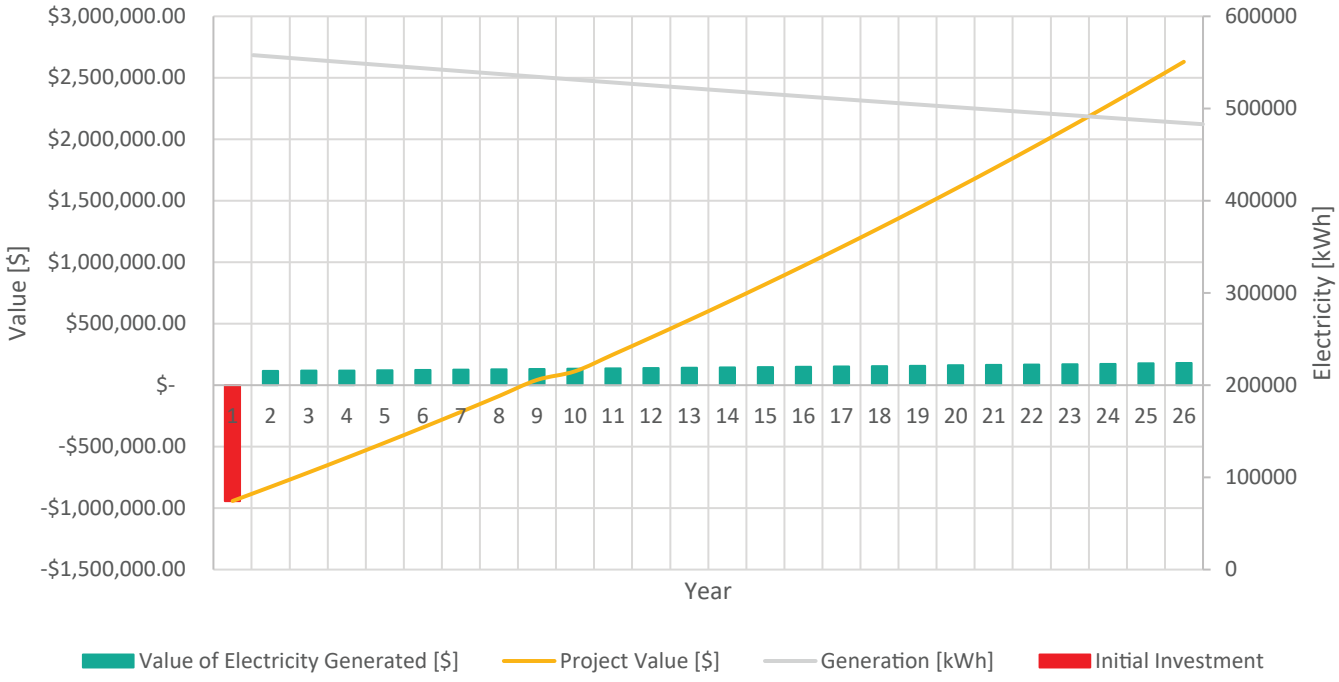
Warranty

Product Finish: 10-year panel manufacturer warranty against any defect in material or manufacture.

Materials & Workmanship: 1-year system manufacturer warranty against defects or deficiencies from date of substantial completion.

Power Production: 25-year manufacturer warranty ensuring power production is at 80% or higher after 25 years from date of electrical connection to local use, storage, or grid.

A solar facade provides on-site energy generation, giving you control over what you pay for electricity. The higher initial cost of Solstex® can be paid back in as little as 8-10 years, while providing value of up to 250% of the initial investment over the lifetime of the project.



Solstex® Color Options:

Standard Black

Standard Black
(With Acid Edge)

Anthracite

White

Polar White

Lime White

Grey

Polar Grey

Clay

Ocher

Sand

Terracotta

Corten Steel

Coral Brown

Marble Brown

Deep Blue

Blue

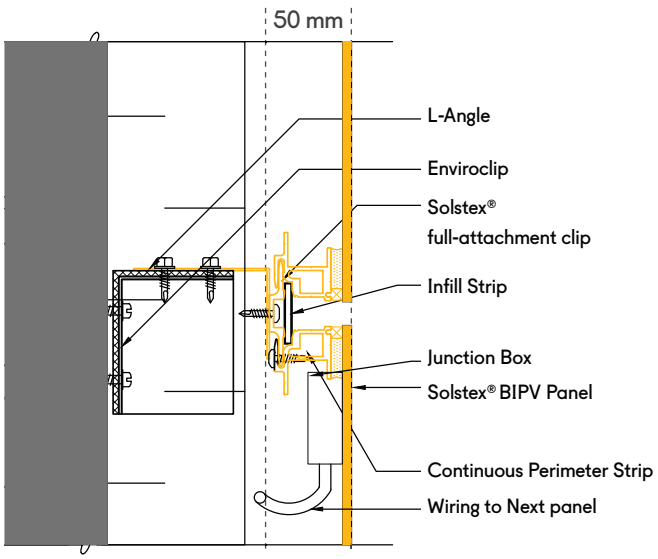
Green

Intense Green

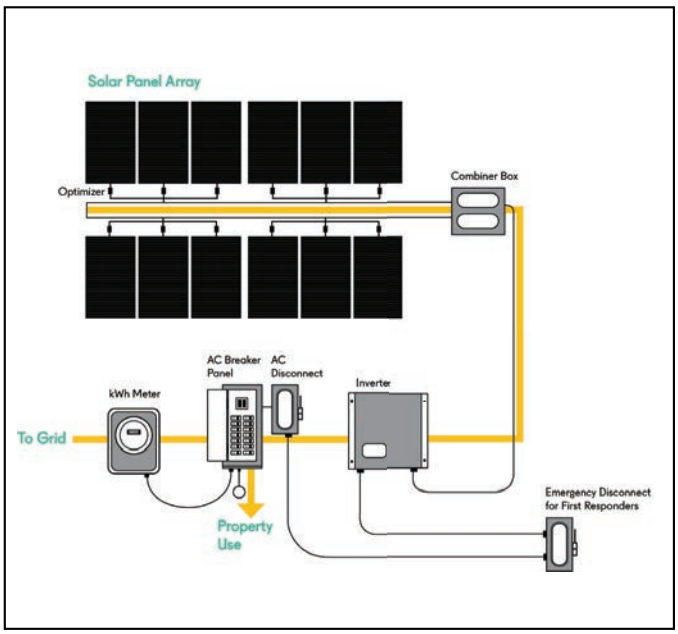
In partnership with

Elemex® is proud to partner with Onyx Solar, a global leader in photovoltaic glass technology with over 15 years of experience and 500+ projects worldwide. This collaboration enhances Solstex®, our cutting-edge building-integrated photovoltaic (BIPV) facade system, designed to harness the power of the sun while offering unmatched design flexibility.

Typical Attachment System:



Typical Electrical System:



National Association of Realtors
Washington, DC

Brazoria County Courthouse, Angleton, TX

Features & Benefits

Code Compliant

The Ceramitex® System is an architectural ceramic product proven to meet or exceed industry code standards throughout North America.

Climate Defiant

Resistant to expansion and contraction in high temperature or freezing conditions.

Impact Resistant

Ceramitex® panels combine strength and lightness to deliver lasting performance in high-impact environments.

Lightweight

Ceramitex® panels with a thickness of 6 mm are approximately 3.8 lbs per square foot.

Large Format

Large format Ceramitex® panels open a world of design possibilities. Offered in a range of colors and textures.

Graffiti-Proof

Ceramitex® sintered ceramic panels are easy to maintain and impervious to chemicals.

ceramitex®

SINTERED CERAMIC FACADE SYSTEM

Strong. Beautiful. Resilient.

Introducing Ceramitex®, the sintered ceramic facade system that simply outperforms.

Mitered Corners

Unique to the Ceramitex® System is the ability to create large mitered returns, giving a striking dimensional appearance to any returning edge.

Waterproof

Waterproof Ceramitex® panels combined with a patented pressure-equalized rainscreen system provide the ultimate weather barrier.

UV Resistant

Since the color is 100% natural, it does not deteriorate due to sun exposure or extreme temperatures.

Scratch Resistant

Ceramitex® panels are resistant to scratching due to the hardness of the surface.

Earls Kitchen + Bar, Toronto, ON

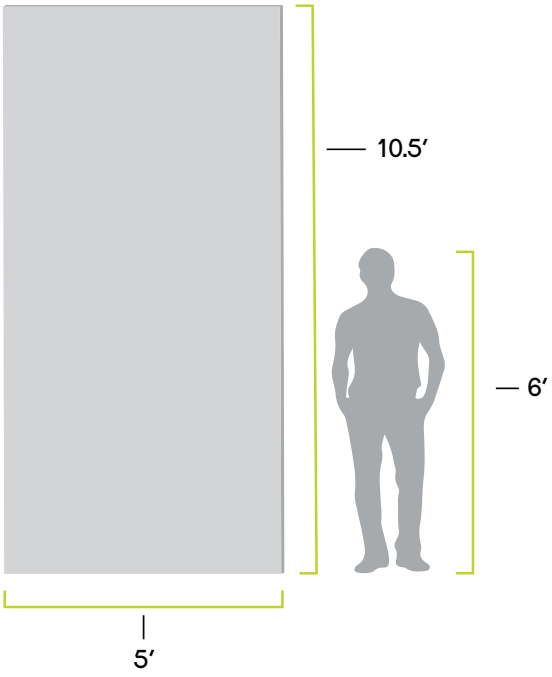
Product Specifications

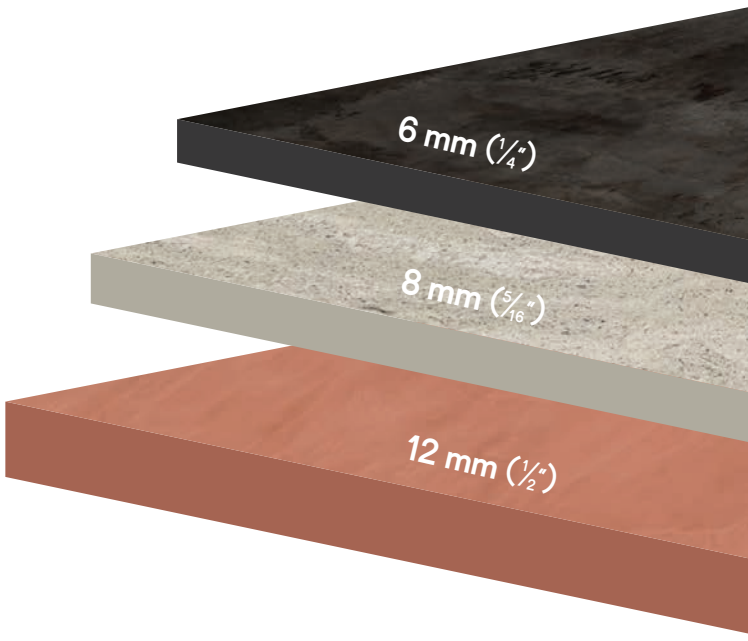
Composition + Material

Ceramitex® sintered ceramic panels consist of a sintered ceramic slab manufactured with a fiberglass reinforced mesh backing that is adhered to our proprietary Unity® attachment technology.

Sizing + Details

Panels are available in sizes up to 5′ x 10.5′ (1500 mm x 3200 mm) with a 6 mm (¼″) thickness and 4.5′ x 10.5′ (1440 mm x 3200 mm) with an 8 mm (5⁄16″) thickness. Additional thickness available in 12 mm (½″) . Nominal system depth 50 mm (2″).





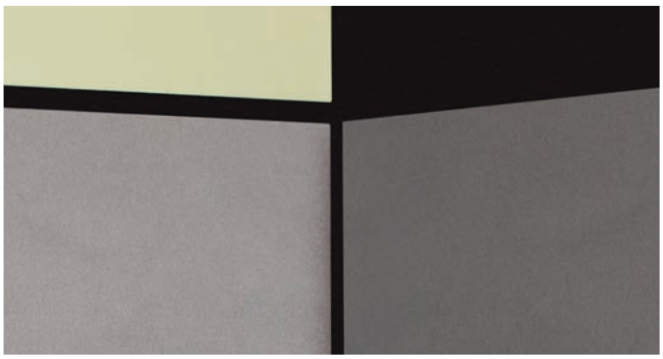
Credit Union Texas, Dallas, TX

Mitered Corners

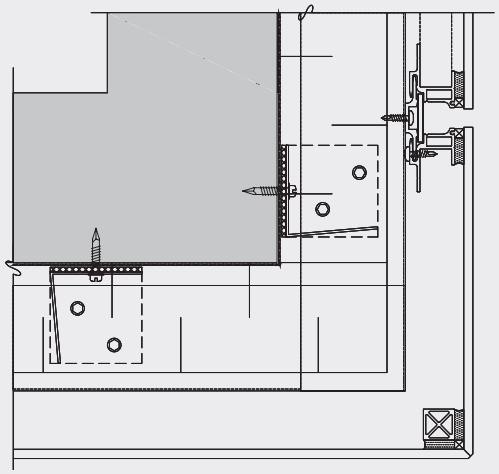
Mitered corner panels are custom cut and appear seamless. These corner pieces are required to be constructed with Sintered Ceramic slabs 6 mm (¼") or thicker.

Outside Mitered Corner

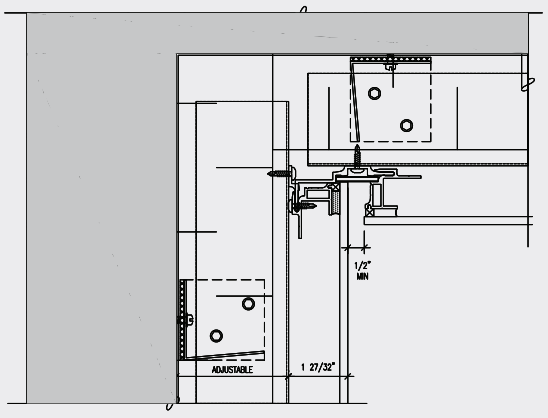
Inside Corner



Typical Outside Mitered Corner



Typical Inside Corner



alumitex®

ALUMINUM PLATE FACADE SYSTEM

Features & Benefits

Climate Defiant

Resistant to expansion and contraction in high temperature or freezing conditions.

UV Resistant

Color is resistant to fading from exposure to the sun or extreme temperatures.

Code Compliant

The Alumitex® System has been proven to meet or exceed industry code standards throughout North America.

Weatherproof

Weatherproof panels combined with a patented pressure-equalized rainscreen system provide the ultimate weather barrier.

Endless Versatility

Extremely durable. Alumitex® plate offers the opportunity to create square, crisp lines and compound curves.

Completely Customizable

Alumitex® plate is post-painted which allows an endless possibility of color choices.

GO Bramalea, Brampton, ON

Robust. Versatile. Non-combustible.

Natural and durable, Alumitex® Plate provides strength without limitations to your architectural facade.

Fire Resistant

Alumitex® plate panels are a non-combustible fire-rated architectural facade system.

Lightweight

Alumitex® Plate panels are a lightweight cladding solution weighing Approximately 3 lbs/sq. ft.

Large Format

Large format Alumitex® Plate panels open a world of design possibilities.

Product Specifications

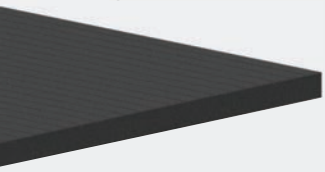
Composition + Materials

Aluminum Plate is a high strength, low weight aluminum alloy that is durable and has excellent formability. Solid aluminum plate panels are non-combustible and therefore have no installation limitations.

Standard* Panel Sizes (actual face size of panel):

46" x 94" (1168 mm x 2387 mm)
46" x 118" (1168 mm x 2997 mm)
46" x 142" (1168 mm x 3606 mm)
58" x 94" (1473 mm x 2387 mm)
58" x 118" (1473 mm x 2997 mm)
58" x 142" (1473 mm x 3606 mm)

Standard* Thickness:



3 mm (⅛")
Solid: Select applications

*Custom sizes and thickness are available.
Consult your Elemex® agent for availability and pricing.

Weight: Approximately 3 lbs/sq. ft.

Warranty: 1-year manufacturer (20-year finish)

Finish:

Aluminum Plate is post-painted, typically with a PPG Duranar finish, which allows for an endless possibility of color choices.

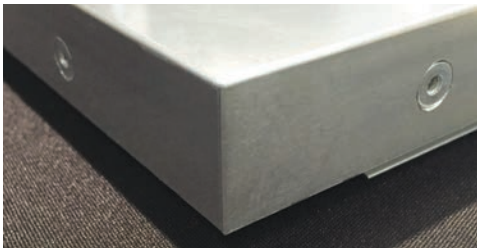
Available in these options:

- Duranar – 2 coat system (primer & color), solid colors only
- Duranar Sunstorm – 2 coat system (primer and mica containing color), mica finishes
- Duranar XL – 3 coat system (primer, color, and clear coat), solid, mica and metallic colors available

Tru-90®

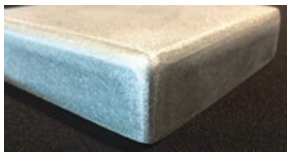
Our precision route & return fabrication process delivers a superior edge aesthetic that requires no welding or grinding.

Alumitex® Plate



Tru-90® Edge

Others



Bullnose Edge

Ten93 Queen West, Toronto, ON

ALT Hotel, Ottawa, ON

Pan Am Games Village, Toronto, ON

Collections Conservation Centre
Ottawa, ON

Pickering Casino, Pickering, ON

Features & Benefits

Code Compliant

The Alumitex® System has been proven to meet or exceed industry code standards throughout North America.

Climate Defiant

Resistant to expansion and contraction in high temperature or freezing conditions.

Lightweight

Alumitex® ACM panels with a thickness of 4 mm ($^{5}/_{32}$") weigh approximately 2 lbs per square foot.

UV Resistant

The color is resistant to fading from exposure to the sun or extreme temperatures.

Corrosion Resistant

A PVdF finish protects the Alumitex® ACM panels from the elements making them long-lasting, low maintenance, and corrosion-resistant.

Ease of Fabrication

The versatility of Alumitex® ACM allows for fast production and improved lead times.

alumitex®

ALUMINUM COMPOSITE MATERIAL

(ACM)

Lightweight. Flexible. Customizable.

Alumitex® ACM provides an effective and accessible facade solution with endless possibilities.

Large Format

Large format Alumitex® ACM panels open a world of design possibilities.

Weatherproof

Weatherproof Alumitex® ACM panels combined with a patented pressure-equalized rainscreen system provide the ultimate weather barrier.

Completely Customizable

Alumitex® ACM is post-painted which allows an endless possibility of color choices.

Product Specifications

Composition + Materials

Aluminum Composite Material (ACM) consists of two aluminum sheets sandwiching a solid core of extruded thermoplastic material, completed in a continuous process with no glues or adhesives between dissimilar materials. The pre-painted coils ensure color consistency and improve lead times. A protective film is applied to protect the material from fabrication to install. Alumitex® ACM offers a finish warranty of 10-30 years (varies by finish)

Sizing + Details

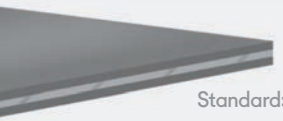
Top: 0.5 mm (0.020") aluminum skin coated with a PVdF roll-coated finish containing a minimum of 70% Kynar 500®/ Hylar 5000® resins.

Core: Mineral-based fire rated (FR) core.

Bottom: 0.5 mm (0.020") aluminum skin coated with either a chrome or polyester finish.

System: Nominal thickness 40 mm (1.5").

Thickness:



4 mm (5/32")

Standard: Multi-storey to grade applications

Weight: Approximately 2.5 lbs/sq. ft.

Warranty: 1-year manufacturer (10-30-year finish)

*varies by manufacturer

Standard ACM Sheet Sizes:

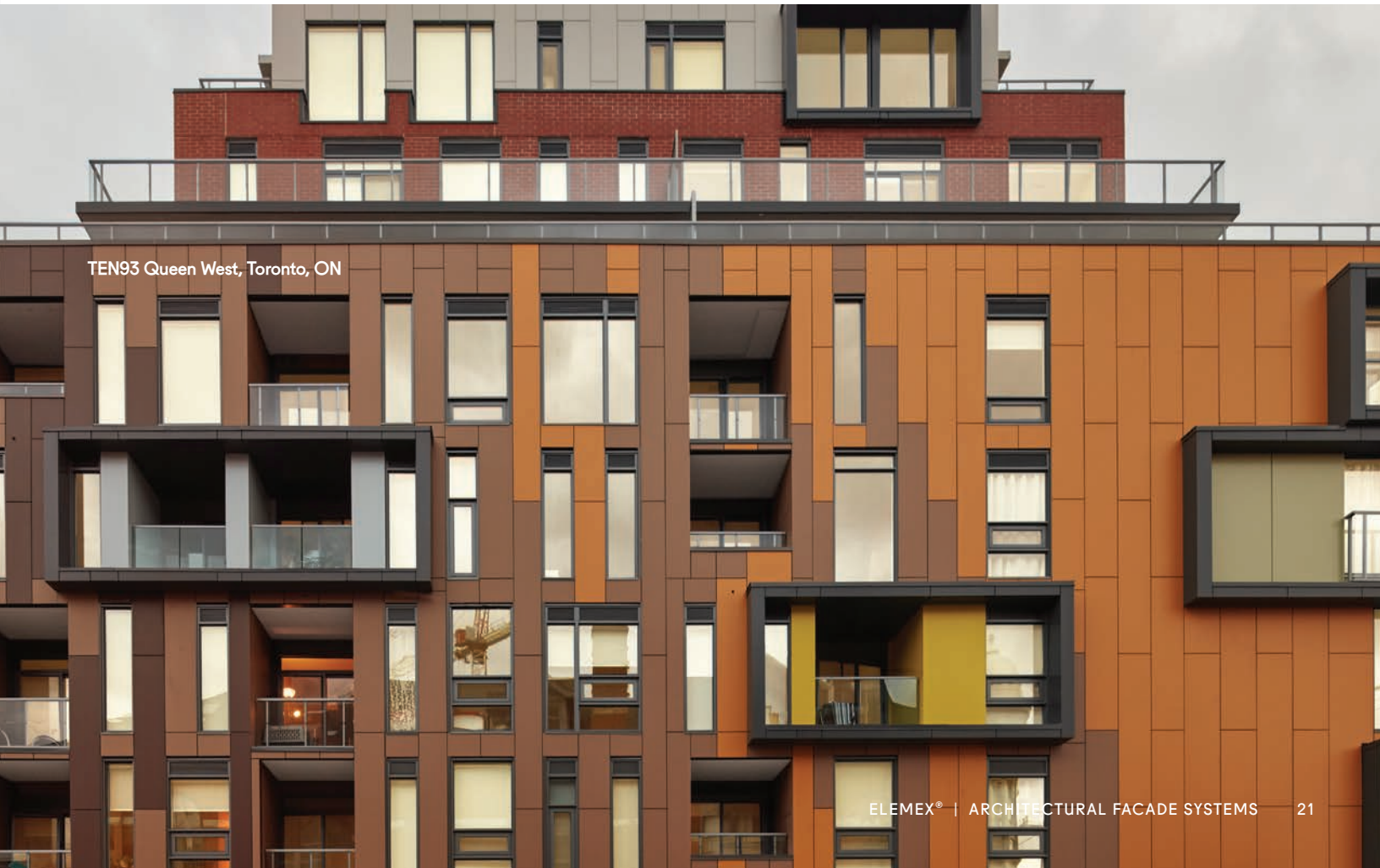
Width: 40" (1020 mm), 49" (1250 mm), & 62" (1575 mm).

Length: 19' 6" (6000 mm) maximum

Bright Water, Mississauga, ON

Fanshawe College, London, ON

Starlim North America Corp, London, ON



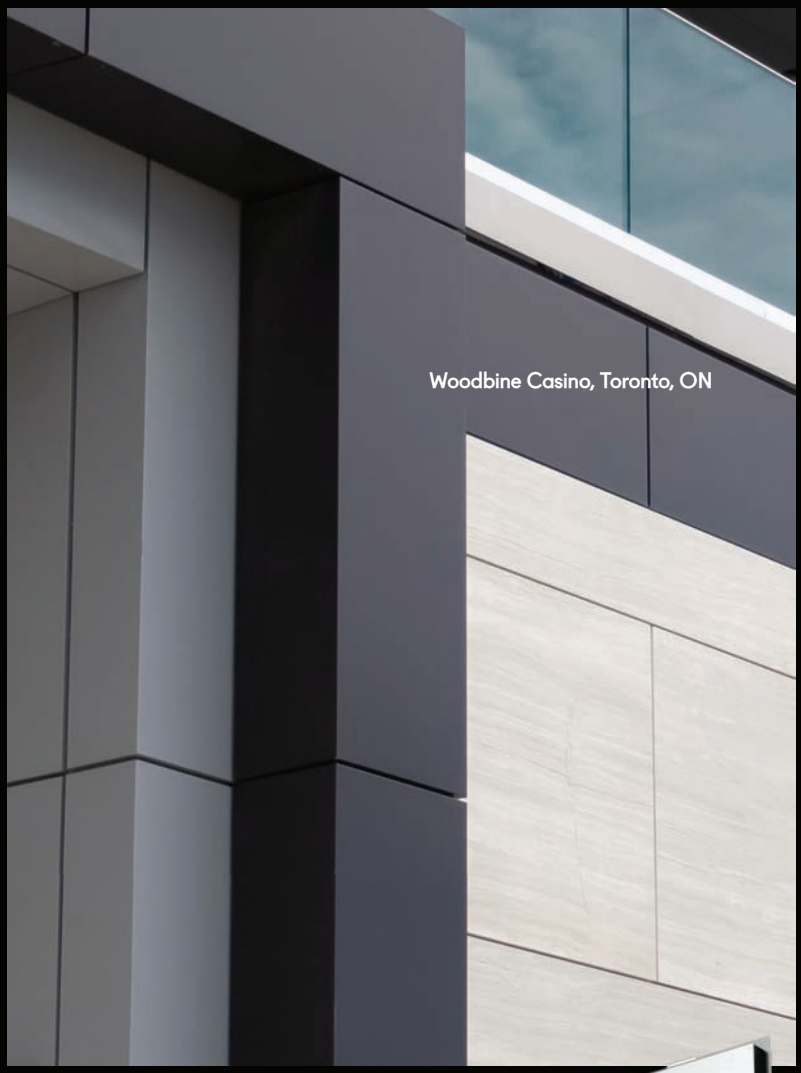
TEN93 Queen West, Toronto, ON

UNITY®

One Technology. Built on Trust.

Our proprietary Unity® attachment technology is engineered to work with all of Elemex's exterior cladding surfaces to create all-in-one superior facade systems. Unity® technology allows for seamless integration of a variety of facade panels on the same attachment platform.

Unity® supports both simple and elaborate projects; from flat panels to more complex. Engineered for complete architectural design control, Unity® brings it all together.



Woodbine Casino, Toronto, ON

Seamless. Integrated. Unified.

Seamless Integration of Panel Systems

Only Elemex® gives you Unity. Our proprietary attachment technology allows you to seamlessly integrate our panel systems on a single plane.

Ease of Installation

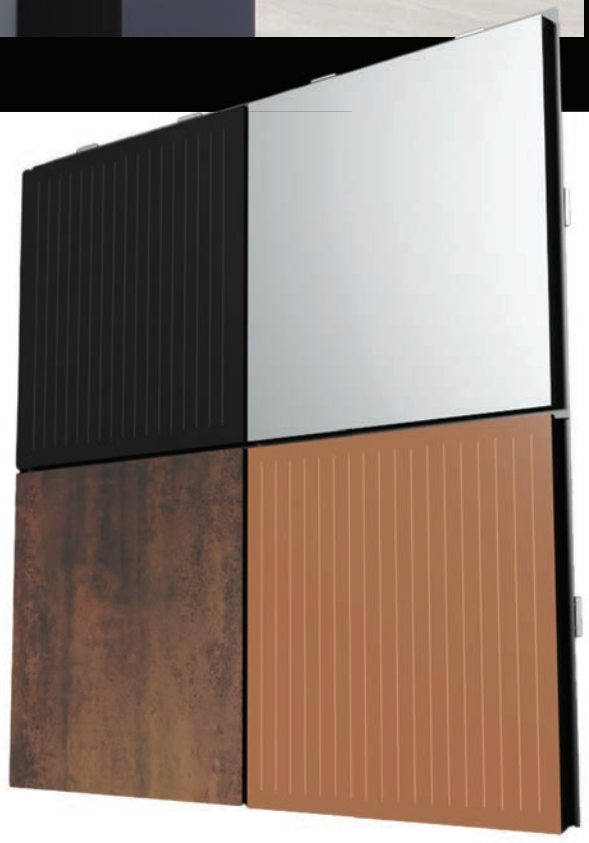
Each of our facade systems follows the same installation method giving you the ability to efficiently and effectively install our systems on site.

Design Flexibility

A variety of materials, colors, textures, and sizes can be panelized on our proprietary Unity® attachment technology so you can create and design with confidence.

Proven Performance

Elemex® has 40+ years of experience in the building material of facade industry with a proven track record of results.



Credit Union of Texas, Dallas, TX

EliisDon - London Office, London, ON

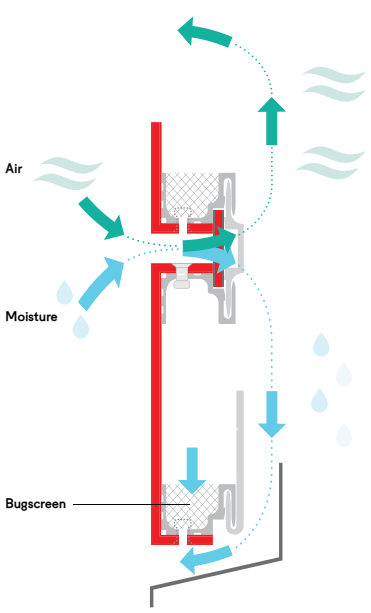
Rear-Ventilated Rainscreen

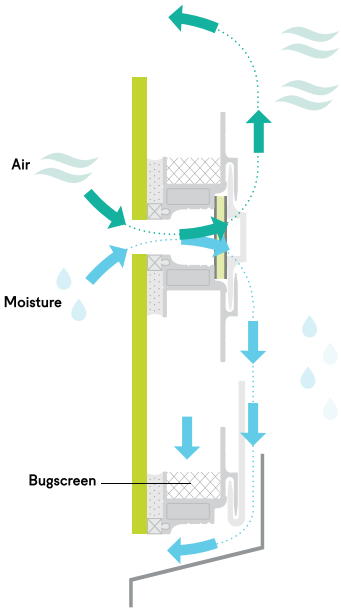
Rear-Ventilated Rainscreen (RVR)

Our Rear-Ventilated Rainscreen (RVR) System breathes freely and prevents water from being forced the joints in through.

Pressure-Equalized Rainscreen

Pressure-equalization reduces the pressure difference across the cladding through the use of compartmentalization and back venting. Ingress of incidental water is reduced and residual moisture is returned to the exterior at the drainage plane.





ALUMITEX

CERAMITEX

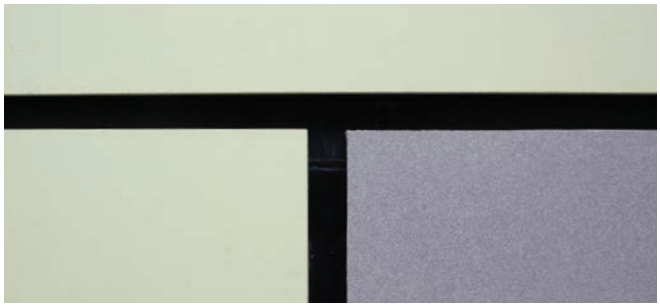
SOLSTEX

Elemex® Architectural Facade Systems Office
London, ON

Infill Strips

Vertical infill strips are measured and installed once a row of panels are installed.

Horizontal infill strips are then installed across the top of the row of panels.



Infill strips can match or complement the system frame color as part of the Elemex® Concealed Installation System. The infill strips conceal any visible clips or screws.

Infill strips are also available in custom colors.

Vaughan Civic Centre Resource Library
Vaughan, ON

Unity® Proprietary Attachment Technology

UNITY®

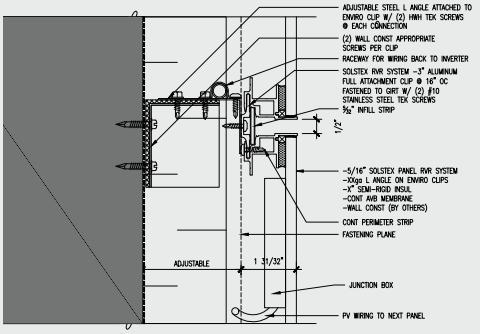
Unity® is Elemex's proprietary concealed attachment technology that supports simple and elaborate designs from flat panels to complex shapes. Unity® seamlessly integrates all of Elemex's facade surfaces by bringing all your design ideas together for a new North American standard.

Panel Structure

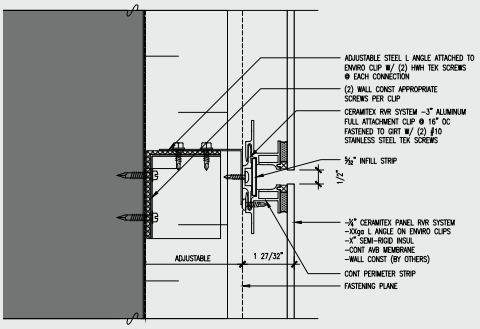
The proprietary extruded aluminum framing consists of a perimeter frame and intermediate stiffeners.

Attachment

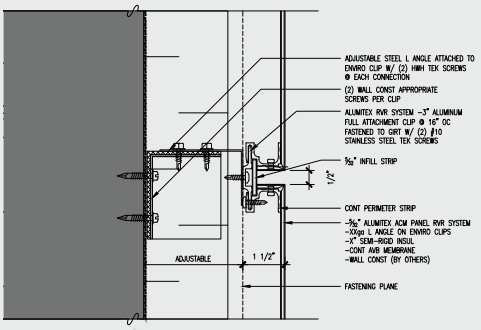
Elemex® panels are either mechanically fastened or adhered with structural silicone to the frame.



SOLSTEX® System Details



CERAMITEX® System Details



ALUMITEX® System Details

Upper West Side Skyscraper, New York, NY


805 Washington Ave, Brooklyn, NY


Ette Hotel, Kissimmee, FL


NAR, Washington, DC


Vaughan Civic Centre Resource Library
Vaughan, ON


Anaha Pool, Honolulu, Hawaii

360° Advantage

Elemex® delivers a true 360-degree advantage by supporting every stage of your facade project—from concept to completion. With over 40+ years of experience, we lead the commercial facade industry through education, innovation, and technical excellence. Our sales, estimating, and project management teams ensure seamless coordination, while our systems are manufactured in a state-of-the-art facility with strict quality control. We partner with certified installers for precise execution and full wall assembly performance. Constantly innovating, Elemex® offers advanced solutions like our Ceramitex® sintered ceramic system and Solstex® Solar Facade System—seamlessly integrating aesthetics, performance, and sustainability.

elemex®

Architectural Facade Systems

elemex.com 530 Admiral Dr. London, Ontario N5V 0B2 T 1 844 435 3639 E info@elemex.com