elemex®

Architectural Facade Systems

ceramitex®

Sintered Ceramic Facade System

Strong. Beautiful. Lasting.

Introducing Ceramitex®. A facade system that simply outperforms. Our large format sintered ceramic facades are lightweight yet durable enough to defy graffiti, scratches, weather, and the test of time. The system is fabricated to your exacting specifications on our proprietary Unity® integrated attachment technology, giving you a complete system engineered to beautify and protect your project. Ceramitex is North American code compliant and is supported by the Elemex® 360° Advantage.

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.
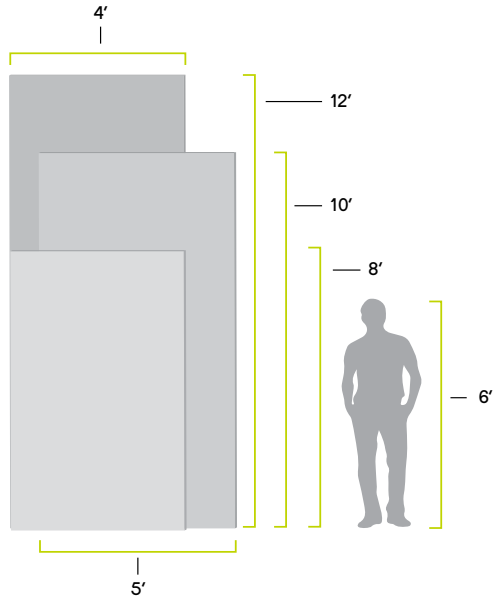
Lightweight

Sintered ceramic panels with a thickness of 6mm are approximately 3.8lbs per square foot.

Large Format

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

4'
12'
10'
8'
6'
5'

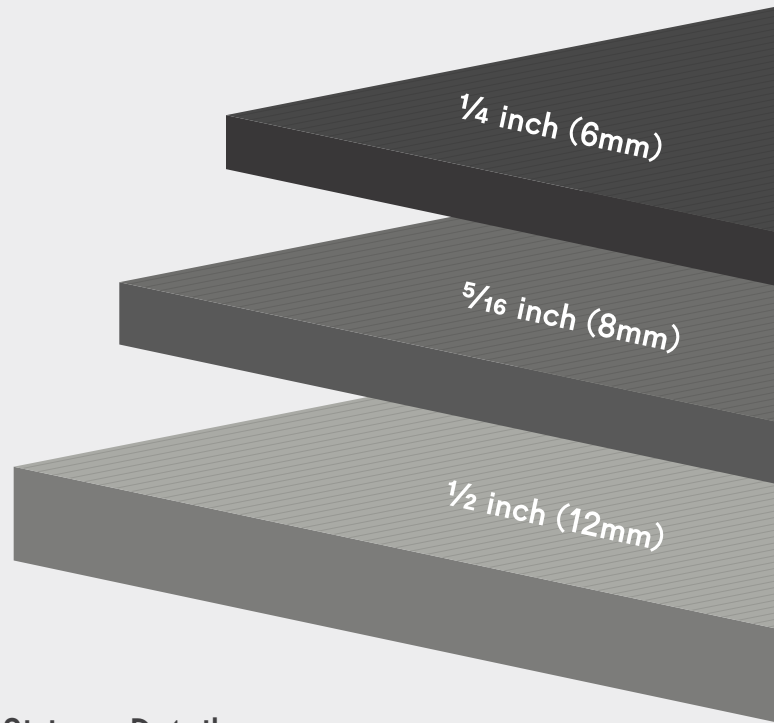¼ inch (6mm)

⁵⁄₁₆ inch (8mm)

½ inch (12mm)

Composition + Material

Ceramitex® sintered ceramic panels consist of a sintered ceramic slab manufactured with 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' (1500mm x 3200mm) in the 6mm thickness and 4.5' x 10.5' (1440mm x 3200mm) in the 8mm. Standard panel thicknesses are 1/4" (6mm) and 5/16" (8mm). Additional thickness available is 1/2" (12mm).

Impact Resistant

Ceramitex® panels are strong, lightweight and extremely resilient against high traffic abrasion.

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

Graffiti-Proof

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

UV Resistant

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

Scratch Resistant

Panels are resistant to scratching and abrasion due to the hardness of the surface.

Canada Science and Technology Museum

Medical Council of Canada

Vaughan Civic Centre Resource Library

Credit Union of Texas

aLUMITEX® Aluminum Plate

High strength, low weight, endless versatility, and non-combustible.

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.

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

Endless Versatility
Extremely durable. Aluminum plate offers the opportunity to create square, crisp lines and compound curves.

Completely Customizable
Aluminum plate is post-painted which allows an endless possibility of color choices.

Composition + Materials

Aluminum Plate is a high strength, low weight aluminum alloy sheet 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" (1168mm x 2387mm)   58" x 94" (1473mm x 2387mm)
46" x 118" (1168mm x 2997mm)   58" x 118" (1473mm x 2997mm)
46" x 142" (1168mm x 3606mm)) 58" x 142" (1473mm x 3606mm)

Standard* Thickness:

⅛" (3mm)
Solid: Select applications

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

Weight: Approximately 3lbs/SF

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

Finish:

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

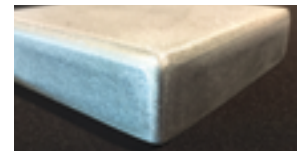**Available in these options:**

- Duranar – 2 coat system (primer & color), solid colors only
- Duranar Sunstorm – 2 coat system (primer and mica containing color), mica finishes
- Duraner 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.

Tru-90® Edge

Bullnose Edge

ALUMITEX®

Aluminum Composite Material (ACM)

A lightweight flat panel designed for both interior and exterior applications.

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.

UV Resistant

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

Corrosion Resistant

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

Composition + Materials

Aluminum Composite Material consists of two aluminum sheets sandwiching a solid core of extruded thermoplastic material, processed in a continuous process with no glues or adhesives between dissimilar materials. The pre-painted coils ensure color consistency and decrease construction schedules. A protective film is applied to the material in production that should be removed after the fabrication and once panels have been installed.
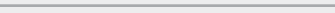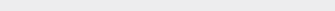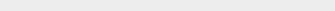
Sizing + Details

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

Core: Anti-toxic low density polyethylene (PE) or mineral-based fire rated (FR) core.

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

Thickness:

$\frac{1}{8}$" (3mm)
Economical: Select applications (signage + interior)

$\frac{5}{32}$" (4mm)
Standard: Multi-storey to grade applications

$\frac{1}{4}$" (6mm)
High durability: Ideal for public spaces

Standard Panel Sizes:

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

Length: 19' 6" (6000mm) maximum

Lightweight
ACM panels with a thickness of $\frac{5}{32}$" (4mm) weigh approximately 2lbs per square foot.

Large Format
Large format ACM panels open a world of design possibilities.

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

Ease of Fabrication
The versatility of ACM allows for fast production and improved lead times.

Completely Customizable
ACM is available in over 30 pre-painted colors and in a range of finishes.

Collections Conservation Centre

Fanshawe College

Starlim

Ten93 Queen West

Solar

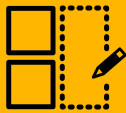# Harness the beauty and power of solar.

Features & Benefits

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.

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

High-Efficiency
Solstex panels deliver significantly more energy than other PV panels, at up to 16.5 W/sq. ft.

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.

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 lbs per square foot, the Solstex Facade system is designed to make the installation as easy as possible.

UNITY®

Unity® is our proprietary concealed attachment technology that supports simple and elaborate designs from flat panels to complex shapes. It seamlessly integrates with all of Elemex's facade surfaces using one proven system that offers multi-panel surface integration and the ability to design and install with absolute confidence. Unity brings it all together for a new North American standard.

Product Specifications

Composition + Materials

Solstex® Solar Panels consist of crystalline 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 - 38.375" x 67" (1000 x 1700)

Watts/Panel: Solstex® O-Series -
Up to 303 W (Standard Size)

Standard Thickness:

O-Series - $\frac{10}{32}$" (8mm)

Weight: Approximately 5 lbs/SF (depending on chosen panel)

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

Warranty

Product Finish: 5-year manufacturer warranty against staining, color fading, or deterioration from date of purchase.

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

Power Production: 10-year manufacturer warranty ensuring less than 2% annual degradation from date of electrical connection to local use, storage, or grid.

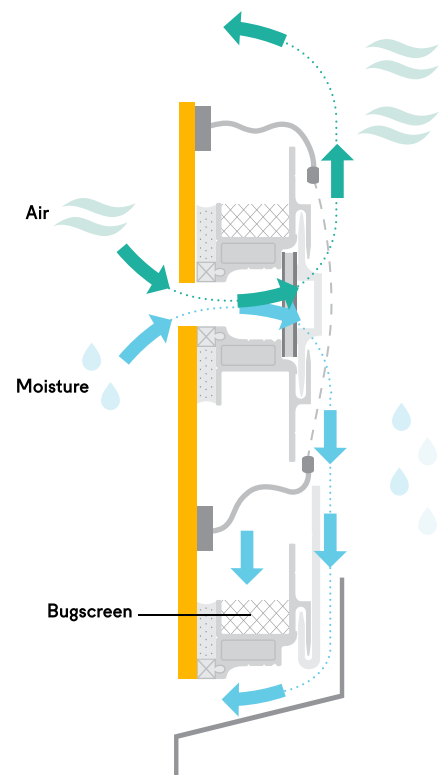Consult your Elemex® Agent for availability and pricing.

Rear Ventilated Rainscreen

Rear Ventilated Rainscreen (RVR)

Our Rear Ventilated Rainscreen (RVR) system breathes freely and allows panels to repel water and debris.

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.

Air

Moisture

Bugscreen

STONITEX® Natural Stone Facade System

Capture the strength and beauty of natural stone.

Features & Benefits

100% Natural
Stonitex® panels are 100% natural North American stone, making each panel as unique and beautiful as the stone it's cut from.

UV Resistant
Crafted from 100% natural stone, our panels resist fading and weather, so your design is truly timeless.

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

Lightweight
At 40% of the weight of traditional granite facades, the Stonitex Facade System leads the industry for lightness in stone panels, making installation easy.

Design Versatility
Engineered to be incredibly thin and lightweight, the Stonitex Facade System allows you to design in ways and places previously impossible for stone facades.

Mitered Corners
The Stonitex Facade System allows for the creation of mitered returns, giving a striking dimensional appearance to any returning edge.

Flexural Strength
Reinforced carbon fiber mesh backing gives Stonitex panels 10x the flexural strength of a traditional 30mm slab of stone.

Large Format
Where traditional dimensional stone is very heavy, thinner Stonitex panels allow for larger format facades and open up a wider variety of design possibilities.

Composition + Materials

Stonitex® Natural Stone Panels consist of a granite slab manufactured with carbon fiber reinforced mesh backing that is adhered to our proprietary Unity® attachment technology.

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

4′ x 8′ (1219mm x 2438mm)

Standard* Thickness:

⅜″ (10mm)

* Custom sizes and thicknesses available.

Weight: Approximately 7.75lbs/SF

Finish: Granite comes in polished, honed and antique. Stones may vary depending on cut.
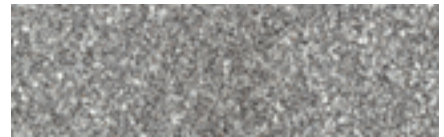
Warranty: 1-year manufacturer (5-year finish)

Consult your Elemex Agent for availability and pricing.

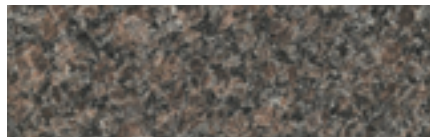**Natural Stone Color Options**

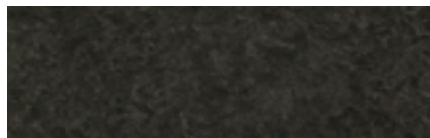American Black

Barre Gray

Bethel White

Caledonia

Cambrian Black

Jay White

Kodiak Brown

Laurentian Green

Laurentian Rose

Picasso

Salisbury Pink

Standstead Grey

Titanium Pearl

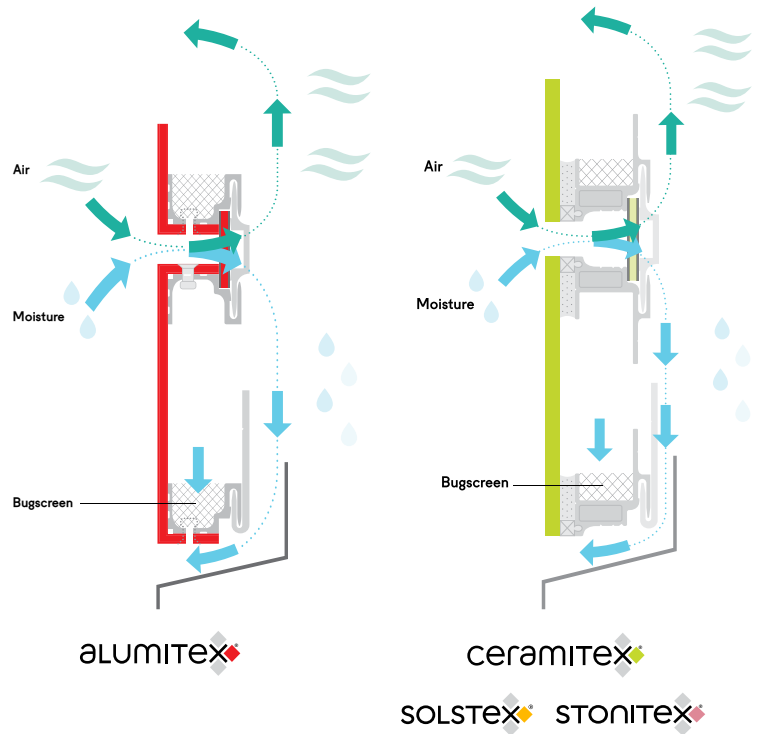Visit elemex.com/stonitex for a closer look

Rear Ventilated Rainscreen (RVR)

Our Rear Ventilated Rainscreen (RVR) System breathes freely and allows panels to repel water and debris.

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.

Air

Moisture

Bugscreen

alumitex

Air

Moisture

Bugscreen

ceramitex

solstex   stonitex

UNITY®

One Technology. Built on Trust.

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

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

Seamless Integration of Panel Systems

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

Ease of Installation

Each of our facade systems follows the same installation method giving our certified network 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

Our facade systems are North American compliant. Elemex has a 50+ year history in the building materials and facades industry with a proven track record of performance.

elemex®

Architectural Facade Systems