



Claditized Installation System
Unitized Facade System

 MITREX™



• Block 11 - Toronto, Canada



• St Philopateer Orthodox Church - Toronto, Canada



• 481 University - Toronto, Canada



• 1451 Wellington - Ottawa, Canada

Claditized Installation System

Introduction

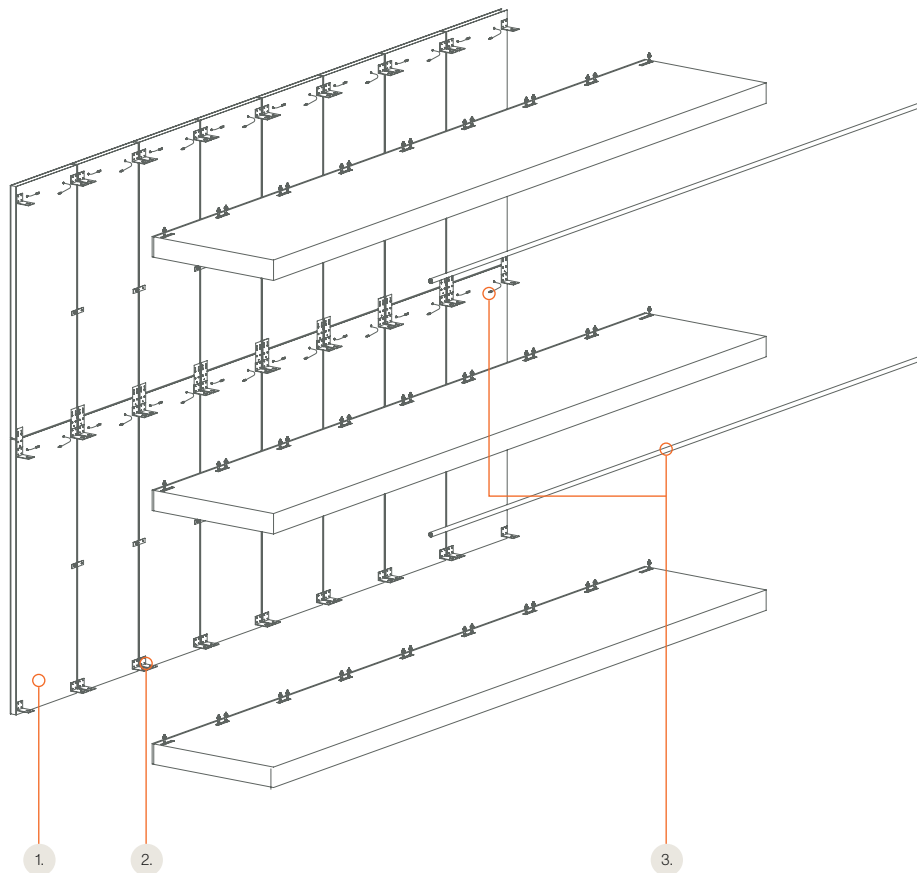
The Claditized System is a groundbreaking unitized facade wall system designed to transform architectural construction. With its quick installation, lightweight design, and reduced structural loads, it offers incomparable efficiency and cost-effectiveness. Tested to withstand extreme weather conditions, it ensures durability and resilience. It integrates seamlessly into architectural designs, combining aesthetic brilliance with functional excellence.

The versatile assembly options and minimum connection points improve structural integrity while simplifying installation. Moreover, its integration with Building-Integrated Photovoltaics underscores its commitment to energy efficiency and sustainability. In essence, the Claditized System redefines building facades, offering architects and builders a streamlined, elegant solution for the future of construction.

- Unitized facade wall system
- Quick installation
- Lightweight system & reduced structural loads
- Unlimited R-value equivalency
- 3rd party tested to withstand Martian environment

System Components

• Claditized System - Components Detail



1. Customizable BIPV Module (Facing + Aluminum Honeycomb Backing)
2. Subframing
3. Conduit And Wiring

System Features

1. Unitized wall system
 - Unitized facade wall system
 - Fast installation from inside or out
2. Improved installation:
 - Quick installation
 - Slab to slab attachments & structural slabs required
3. Versatile assembly
 - Lightweight system & reduced structural loads
 - Floor to floor panel spans
4. High-performing envelope
 - Fewer connection points
 - Thermal & acoustic insulation
 - Unlimited R-value equivalency
5. Code compliant
 - 3rd party tested and code compliant system
 - Fire testing including NFPA 285, S134, EN 13501, and more



• Claditized System

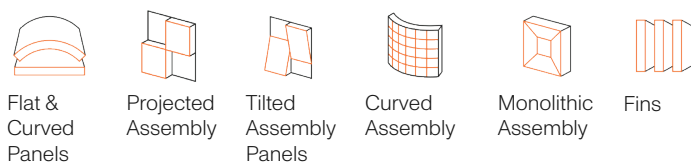
Multi-Facing Panels

Mitrex takes pride in pushing the boundaries of facade technology, offering an unparalleled range of customizable facing options including BIPV, stone, porcelain, brick, and aluminum PVDF.



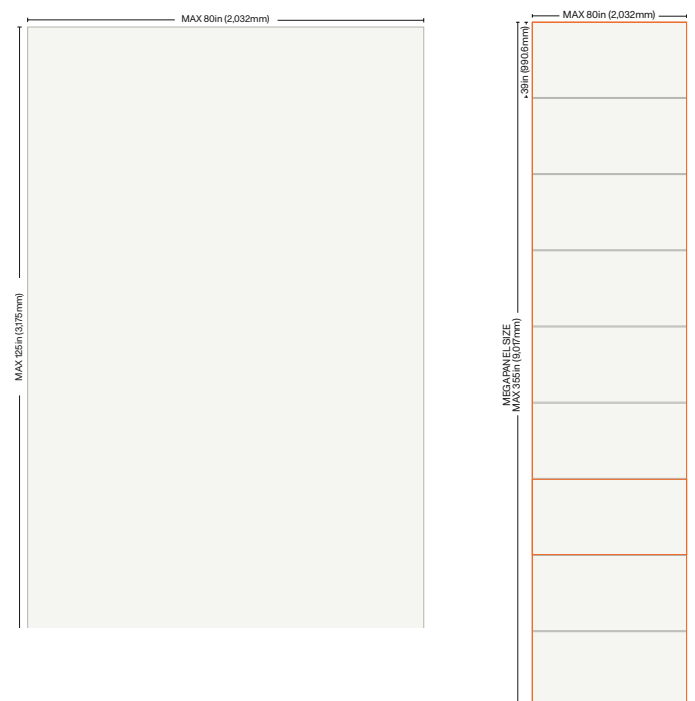
Shapes

Mitrex Solar Facade system is a symphony of versatility and flexibility, harmonizing with the rhythm of modern architecture. It's not just about panels; it's about monolithic architectural elements that breathe life into columns, curve around contours, and stretch across extruded facades. Imagine panels cut at daring angles, high-performing bonding materials, and reinforced with aerospace metal for a seamless, monolithic appearance.



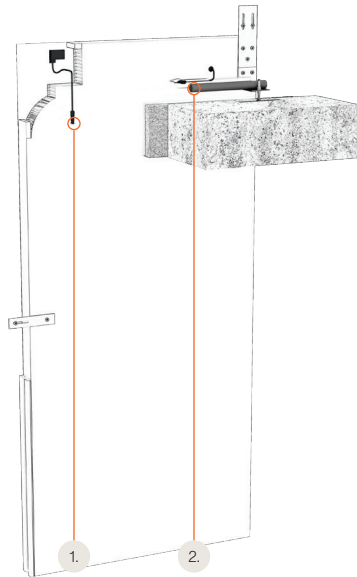
Sizes

The Claditized System offers maximum custom panels up to 125in x 80in, adaptable for various architectural needs. For extensive projects, the system features maximum pre-assembled panels up to 355in x 80in that streamline the installation and enhance overall project efficiency.



Connection and Wiring

Our system integrates BIPV effortlessly, with hidden circuitry and wiring. Claditized not only fortifies your wall system but energizes it, all while keeping electrical components out of sight.



1. Module Wiring
2. Conduit

Environmental

The Claditized System prioritizes environmental sustainability by incorporating green technologies and materials to reduce the impact of construction. We use renewable resources, energy-efficient designs, and superior insulation to enhance building performance and lower carbon footprints. With eco-friendly production methods and products that are 96% recyclable, Claditized promotes durable and environmentally responsible structures.

Quality & Durability

The Claditized System is a benchmark for quality and resilience. Designed with high-grade materials and advanced engineering, the Claditized system maintains rigorous quality control standards demonstrated with ISO 9001 compliance. Our commitment to excellence is further validated with ISO 10002 and ISO 10004, ensuring that customer satisfaction and quality management is met.

Warranty

The Claditized System is backed by a comprehensive 25-year product warranty, which covers it as a building material, along with a performance warranty guaranteeing at least 80% of the initial performance by year 25. This extensive warranty ensures the system's long-term reliability and effectiveness, making it a prudent choice for construction projects.

Testing



Test	Test Description	Result
ASTM E283	Air Leakage Resistance	Qinf – 0.031 cfm/ft ² or 0.155 L/s-m ² at 300 Pa; Qexf – 0.024 cfm/ft ² or 0.122 L/s-m ² at 300 Pa
ASTM E330	Structural Performance by Uniform Static Air Pressure Difference	Design Load at +/- 80 psf (+/- 3840 Pa), No failure or permanent deformation
ASTM E331	Water Penetration Resistance	No water infiltration at 15 psf or 720 Pa
CAN / ULC S134	Standard Method Fire Test of Exterior Wall Assemblies	Passed
CAN / ULC S135	Standard Test Method for the Determination of Combustibility Parameters of Building Materials Using an Oxygen Consumption Calorimeter (Cone Calorimeter)	Total Heat Release: ≤ 3 MJ/m ² ; Smoke Extinction Area: ≤ 1.0 m ² (≤ 0.7 m ²)
ASTM E84	Tunnel Test	Flame Spread Index: 10; Smoke Developed Index: 200; Class A
CAN / ULC S114	Non-Combustibility in Building Materials	Passed
ASTM E90	Sound Transmission Class	STC Rating 35
EN13501	Fire Classification of Construction Products and Building Elements	Rating: A2-s1,d0

Compare Our Systems

		• CladiShield	• Claditized	• CladiFab
	System Render			
System	Lightweight Panel System	✓	✓	✓
	System Type	Rainscreen wall system	Unitized wall system	Prefabricated, complete wall system
	Wall Components Included	Insulation, AWB not included	Insulation, AWB, and wall assembly components not included	Insulation, AWB, and wall assembly components included
	Air and Water Tight	Air and water tight, and rainscreen principle	Air and water tight	Air and water tight, and rainscreen principle
	Insulation &AWB	Continuous insulation and AWB	-	Continuous insulation and AWB
Features	System Weight	3.16 lb/sq ft	2.63 lb/sq ft	3.19 lb/sq ft
	R-Value	Unlimited R-value equivalency	Unlimited R-value equivalency	Maximum R-60
	Panel Size	80in x 39in (2032mm x 990mm)	<u>Maximum Custom:</u> 125in x 80in (3175mm x 2032mm) <u>Maximum Preassembled:</u> 355in x 80in (9017mm x 2032mm)	<u>Maximum Custom:</u> 125in x 80in (3175mm x 2032mm) <u>Maximum Preassembled:</u> 355in x 80in (9017mm x 2032mm)
Installation	Sequencing	Structure built, walls and windows built, then panels installed	Structure built, walls and windows built, then panels installed	Structure built, walls and windows built, then panels installed
	Installation Speed	-	Quick installation	Quick installation
	Installation Capacity	250 Installed SF/Day/ Crew	500 Installed SF/Day/Crew	500 Installed SF/Day/Crew

Compare Our Systems

		• CladiShield	• Claditized	• CladiFab
	Installation position	Installation from outside	Installation from inside or outside	Installation from inside or outside
	Support required	Backup wall required	Structural slabs required	Structural slabs required
	Support Attachment	Attachment to backup wall with subframing	Slab to slab attachment	Slab to slab attachment
	Panel Spans	-	Floor to floor panel spans	Floor to floor panel spans
	Concealed Fasteners	✓	✓	✓
Design	Panel Spans	Multi-facing options including BIPV/ architectural solar, stone, porcelain, aluminum PVDF, brick veneer	Multi-facing options including BIPV/architectural solar, stone, porcelain, aluminum PVDF, brick veneer	Multi-facing options including BIPV/architectural solar, stone, porcelain, aluminum PVDF, brick veneer
	Irregular design capabilities	✓	✓	✓
Performance	Connection Points	-	Fewer connection points	Fewer connection points
	Reduced thermal bridging	✓	✓	✓
	Improved acoustic performance	✓	✓	✓
	Reduced structural loads	✓	✓	✓
Testing	3rd party tested	✓	✓	✓
	Code-compliant & safety tested	✓	✓	✓
	Fire tested	✓	✓	✓

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- **Learn More**

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