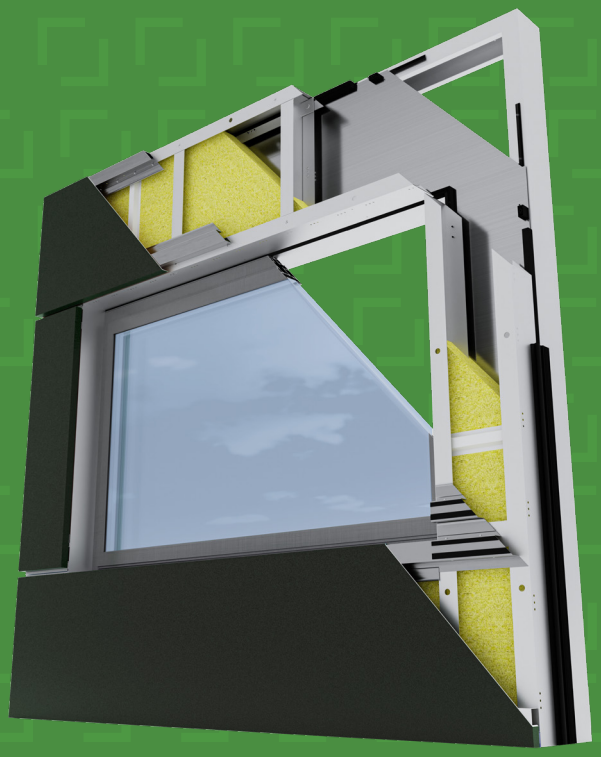
unitiwall

Ultra-High Performance Prefabricated Wall Systems

Building Better Starts With the All-In-One Wall

UnitiWall Corporation offers a comprehensive prefabricated wall panel system that streamlines construction schedules and significantly reduces building ownership costs.



Conquer Construction's Toughest Challenges With UnitiWall

The construction industry is facing numerous challenges, from labour shortages and rising material costs to the increasing demand for sustainable building practices. At UnitiWall, we understand these complexities and have developed solutions to address them head-on:

Labour Shortages

Our prefabricated wall systems reduce reliance on skilled labour, streamlining the construction process and minimizing delays.

Time Constraints

Our systems are designed for rapid installation, accelerating project timelines and allowing you to meet tight deadlines without compromising quality.

Cost Management

By integrating multiple trades into a single, all-in-one solution, we significantly cut down on material and labour costs, ensuring projects stay within budget.

Sustainability Demands

With our patented Thermal Plenum Technology, we offer energy-efficient solutions that meet and exceed sustainability standards, helping you achieve your green building goals.



Wall-to-Wall Technology of the Future

Step into innovation with UnitiWall's all-in-one panel solution, revolutionizing building construction. Our patented Thermal Plenum Technology is sustainable and resilient, offering true rainscreen functionality and exceptional thermal separation. Design buildings that stand out with our solutions that elevate standards and redefine modern construction.

Efficient
Unmatched performance with an effective R30+ (U = 0.18W/m2K)*, supporting envelope-first design strategies for high-performance buildings.
*dependent on panel size and panelization plan

Versatile
Architectural freedom that honours original design intent with compatibility for all premium rainscreen claddings, and integrated windows.

Durable
Engineered to exceed next-gen building codes and integrated with the industry's most durable claddings, UnitiWall is built to last and reduce maintenance costs.

Aesthetic
Glass, stainless steel, granite, aluminum, ACM, GFRC, brick, and more...We bring your design to life with our fully unitized, rainscreen wall system.

Unitized
Prefabricated off-site with the work of multiple trades "built-in", allowing your construction schedule to take a giant leap forward in production.

Sustainable
Utilizing recycled and/or recyclable materials, our patented Thermal Plenum technology surpasses code requirements. With a commitment to local sourcing, we're advancing towards a Zero Carbon future.

Accelerate Your Construction Schedule and Maximize Operational Cost Savings

Enhanced Efficiency and Speed

UnitiWall's prefabricated wall systems have revolutionized project timelines, allowing for faster completion without sacrificing quality. Our clients have experienced significant reductions in construction time, enabling them to meet tight deadlines and accelerate their return on investment.

Cost Savings and Resource Optimization

By integrating multiple trades into a single solution, UnitiWall has helped clients achieve substantial cost savings. Our systems minimize material waste and reduce labour requirements, ensuring projects remain within budget while maximizing resource efficiency.

Sustainable and Environmentally Responsible

Our innovative technology supports sustainable building practices, helping clients meet and exceed environmental standards. UnitiWall's solutions contribute to reduced energy consumption and lower greenhouse gas emissions, aligning with the growing demand for eco-friendly construction.

Where Sustainability Meets Artistry, and Efficiency Embraces Innovation. Discover a New Era of Architectural Brilliance.



Performance Tested for Superior Specifications			
Based on Clear Wall 15" cold-formed steel assembly with 8.75" of mineral wool insulation, 6" framing wall and steel cladding system			Upper Test Limits
Effective R30+ (U = 0.18W/m²K)*		CZA Z5010:21	Modelled Data
Weather Resistance	Preload - Wind Pressure	ASTM E330-14	+/-1, 125Pa
	Air infiltration/exfiltration (static pressure)	ASTM E283-19	<0.1 L/s.m at +/-300Pa
	Plenum Ponding Test	AAMA 511	735Pa
	Water penetration (dynamic pressure)	AAMA 501.1-17	720Pa
Structural	Uniform Structural Design Load	ASTM E330/E330M-14(21)	+/-3,375Pa
	Interstory horizontal displacement (left/right)	AAMA 501.4-09	+/-6mm
	Interstory horizontal displacement (in/out)	AAMA S01.4-09	+/-9mm
	Interstory vertical displacement (up/down)	AAMA 501.7-11	+/-19mm
	Interstory horizontal (Inelastic drift) (left/right)	AAMA 501.4-09	+/-10mm
	Interstory horizontal (Inelastic drift) (in/out)	AAMA 501.4-09	+/-14mm

Join Us in Redefining Construction

Our clients are eager to reshape the future of construction. We partner with those who value innovation, efficiency, and sustainability. Challenge the status quo and create cutting-edge structures with UnitiWall.

Who We Work With

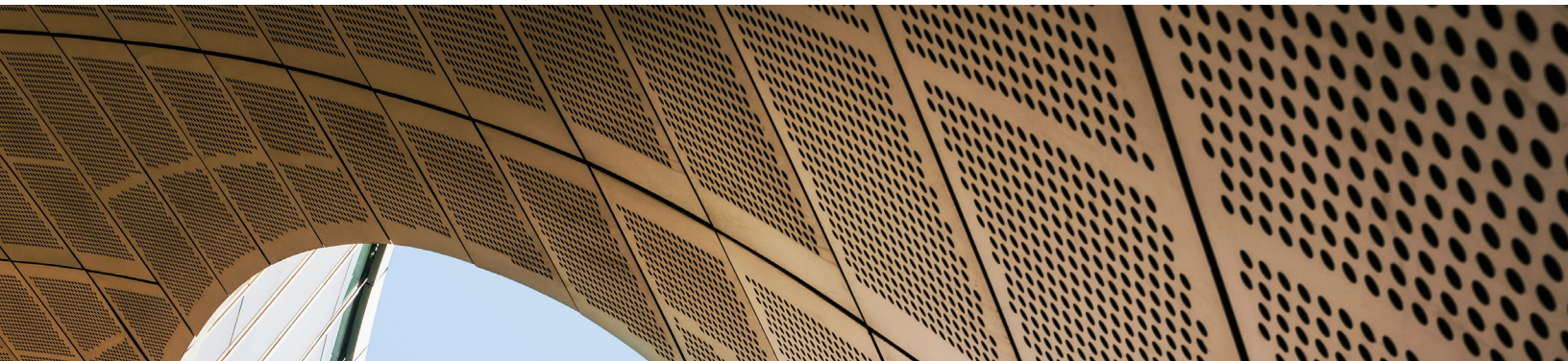
- Architects
- Engineers
- Constructors
- Building Owners

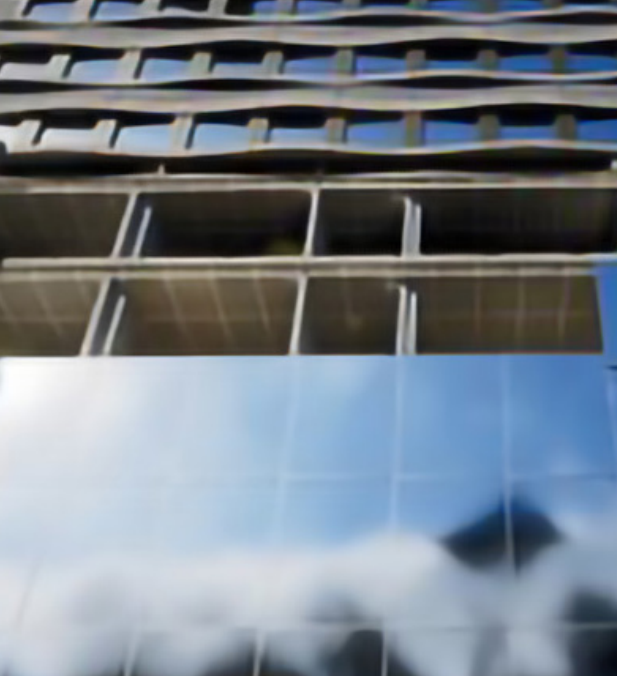
What We Build

- Educational Institutions
- Hospitals
- Government Buildings
- Long-Term Healthcare Buildings

Fully Compatible With Any Cladding and Window System

- Speciality Metals
- Glass
- Wood
- Phenolic
- Brick
- Porcelain
- Terracotta
- Solar Shading
- Fiber Cement
- Concrete
- Extruded / Perforated Metals
- Slate





Technically, It's a Wall. Technologically... It's Magic.

UnitiWall for Retrofits

Take a giant leap forward in technology and efficacy with our all-in-one solution for energy-efficient retrofits. Fully unitized, these wall systems come prefabricated and ready for installation, ensuring energy savings, GHG reductions, and sustainability advantages.

UnitiWall for New Buildings

With the work of multiple trades built-in and a remarkable installation process managed from the inside out, our system provides for full design flexibility. Drastically reduce cost, risk, and labour requirements by up to 80%, ensuring overall project success.

Award-Winning Projects: Academic Wood Tower at the University of Toronto

As one of Canada's tallest mass timber projects, at 15 storeys (80 metres) tall, UnitiWall is providing the entire exterior opaque building envelope. At the forefront of technology, our system seamlessly integrates, to ensure an air- and watertight resilient exterior. This endeavour sets a new global standard for prefabricated wall systems, defining excellence in sustainable construction.

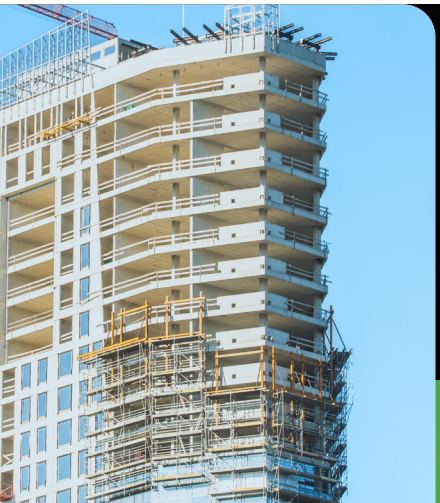


UnitiWall Is a Proud Member Of:

CAGBC Canada Green Building Council · PASSIVEHOUSE CANADA · RAiNA Rainscreen Association in North America · Toronto Construction Association · Urban Land Institute · Ontario Building Envelope Council · CSC

Commitments

Declare. · Life Cycle Assessment LCA · EPD® The International EPD® System · UL Solutions · Certified B Corporation · PASSIVEHOUSE CANADA



Transform Your Next Project With UnitiWall

Ready to experience the future of construction?
Contact us today to learn more about how UnitiWall can revolutionize your building projects with unmatched efficiency, sustainability, and cost savings.

Scan the QR Code To Learn More

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