

Efficient. Versatile. Sustainable. Resilient.

unitiwall 

Prefabricated
High-Performance
Envelope System



Our high-performance proprietary system is a prefabricated wall panel solution designed for both new buildings and retrofits. UnitiWall's wall systems simplify the construction process, cut costly weather delays, and eliminate on-site headaches. With up to 80% faster installation, less downtime, and enhanced quality control, UnitiWall keeps your projects on track.

Declare.



EPD®
THE INTERNATIONAL EPD® SYSTEM

PASSIVEHOUSE
CANADA Build better.
Feel better.

 Certified B
Corporation

Unmatched Performance, Speed & Design Freedom

Engineered to meet air, water, fire, thermal, and carbon performance goals, our exterior building envelope systems deliver without compromising on design flexibility. Each wall panel integrates advanced building science across all layers, ensuring a reliable and high-performance solution.

- ✓ Up to 80% Faster Installation
- ✓ Unlimited Design Freedom
- ✓ Cost Certainty
- ✓ 99-Year Design Service Life
- ✓ 96% Recyclable
- ✓ Superior Thermal Performance
- ✓ Ventilated Facade
- ✓ 100% Non-Combustible Assembly



Perfect for:

- ★ New Builds
- 🔄 Retrofits

Who We Work With

- 🏗️ Architects
- 🏗️ Engineers
- 🏗️ Developers
- 🏗️ Constructors
- 🏗️ Building Owners

Compatible with Virtually Any Cladding and Window System

- 🏗️ ACM
- 🏗️ Specialty Metals
- 🏗️ Glass
- 🏗️ Fiber Cement/GFRC
- 🏗️ Concrete/UHPC
- 🏗️ Wood
- 🏗️ Brick
- 🏗️ Porcelain
- 🏗️ Terracotta
- 🏗️ Solar Cladding
- 🏗️ Extruded/Perforated Metals
- 🏗️ Phenolic/HPL
- 🏗️ Slate
- 🏗️ Steel
- 🏗️ Aluminum
- 🏗️ And many more!

Advancing a Net Zero Carbon Future

Utilizing recycled and/or recyclable materials, our Patented Thermal Plenum Technology surpasses code requirements, capable of effective R33+ values. With a commitment to local sourcing, we're advancing towards a zero-carbon future.



Groundbreaking Projects

Elite Engineering in Every Panel

Academic Wood Tower at the University of Toronto

Winner of the 2019 Canadian Architect Award of Excellence for its outstanding innovation and excellence in mass timber design.

The University of Toronto's Academic Wood Tower is one of Canada's tallest mass timber projects under construction. This architectural wonder showcases innovation in sustainable design. UnitiWall is providing the entire exterior opaque building envelope, seamlessly integrating a resilient, watertight exterior that meets the highest performance standards. This endeavour sets a new global standard for prefabricated wall systems, defining excellence in modern construction.



Weeneebayko Area Health Authority (WAHA) Hospital

A high-performance building envelope designed for efficiency and resilience, serving the needs of the Indigenous community.

UnitiWall is proud to contribute to the Weeneebayko Area Health Authority project. In a remote location, with harsh climates and limited labour resources, our solution offers a smarter way to build. UnitiWall panels are factory assembled and will arrive on site ready for installation, delivering an innovative way to build a state-of-the-art healthcare facility with schedule and cost certainty.



Performance Tested for Superior Specifications

Effective R33+ Opaque Wall* CSA Z5010:21

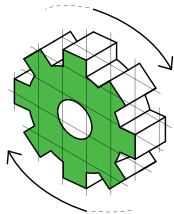
Weather Resistance

Preload - Wind Pressure	ASTM E330-14	+/- 1,125Pa
Air Infiltration/Exfiltration (static pressure)	ASTM E283-19	at 600Pa = 0.04 L/s/m ²
Plenum Ponding Test	AAMA 511	735Pa
Water Penetration (static pressure)	ASTM E331-00	960Pa
Water Penetration (dynamic pressure)	AAMA 501.1	720Pa

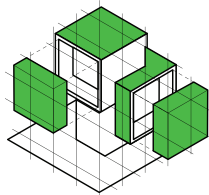
Structural

Uniform Structural Design Load	ASTM E330/E330M-14(21)	+/- 3,375Pa
Interstory Horizontal Displacement (left/right)	AAMA 501.4-09	+/- 9.7mm
Interstory Horizontal Displacement (in/out)	AAMA 501.4-09	+/- 9.7mm
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

*Optional enhanced performance with closed cell insulation to interior structural cavity, where possible.



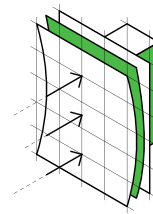
Efficient



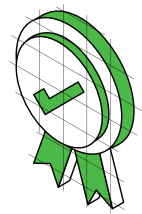
Versatile



Sustainable



Resilient



Trusted

It's Time to Elevate Building Performance



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CAN Patent No: CA 3075824
 US Patent Nos: 11,428,002 & 12,234,636

