



SPEEDWALL

MODULAR SYSTEM



FUTURE-PROOF YOUR BUILDING ENVELOPE

- **FASTER BUILDING ENCLOSURE**
- **HIGHEST STANDARDS FOR AIRTIGHTNESS**
- **LIMITLESS COLOURS AND FINISHES**

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SPEEDWALL FUTURE-PROOFS YOUR BUILDING

Speedwall answers the challenge of emerging building codes, which demand thermal performance and air tightness.

Speedwall is a factory-assembled modular exterior wall system that delivers quality and performance levels far beyond what is possible with on-site construction.

Built on an aluminum chassis based on Flynn's 6450 unitized curtain wall system, Speedwall modules are completely self-framed, sealed, and insulated in Flynn's manufacturing facility, with all windows, doors, and exterior cladding pre-installed.

Larger modules mean fewer interfaces between elements, which, combined with factory QA and QC, equals superior air tightness.



Fast forward to code compliance

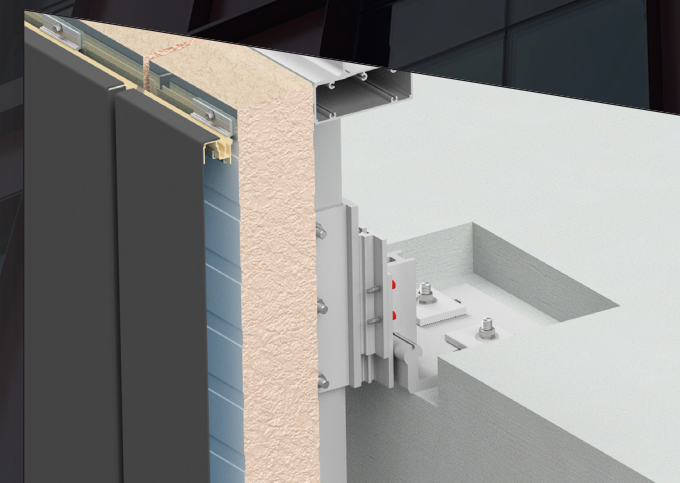
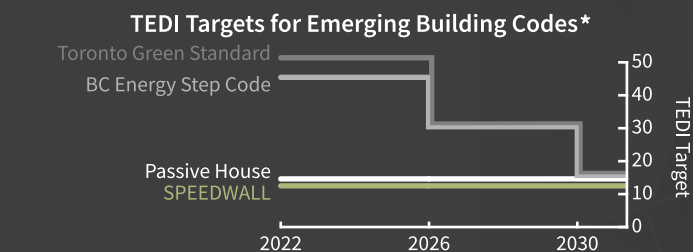
Incoming building codes increasingly challenge the thermal performance limits of traditional site-constructed systems. Within the next few years, those systems will not measure up to the most stringent requirements.

Where previous energy codes evaluated the system efficiency of building envelope components in isolation, emerging requirements take more comprehensive thermal bridging calculations into account.

The sheer number of interfaces between window and wall components in traditional building envelope construction, coupled with their installation and quality control in the construction site environment – often by multiple trades – leaves the final product challenged to meet the incoming codes.

The large factory-built Speedwall modules answer the energy challenge by delivering a quality, interlocking, airtight assembly with a specific focus on improved thermal performance.

Speedwall delivers the performance required for net-zero energy performance standards, which are designed to improve the building's carbon footprint and reduce operating costs.



Speedwall pre-fabricated modules span floor to floor and column to column, and lock together, forming a complete weather-resistant facade.

The Future is fast

Speedwall's revolutionary design yields a game-changing reduction in installation time and complexity. The combined result is a quantum leap forward in building envelope engineering.

Speedwall modules are installed at a rate of 8-12 modules a day, which is approximately 2,500-4,000sqft of completed envelope a day. Depending on the project these install rates may vary.

Speedwall also integrates seamlessly with Flynn 6450 HP Curtain Wall where full-height glass is desired.

FLYNN SPEEDWALL IS A REVOLUTIONARY SOLUTION FOR THE EVOLUTION OF BUILDING ENVELOPE PERFORMANCE STANDARDS

Speedwall makes the achievement of incoming TEDI energy efficiency requirements possible.

- LEED v4.0
- Net Zero Targets TEDI/TEUI
- Passive House Principles
- BC Energy Step Code
- National Building Code of Canada
- Toronto Green Standards (TGS)
- Vancouver Green Building Policy
- City of Vancouver Zero Energy Buildings (ZEB)
- National Energy Code of Canada for Buildings 2015 (NRCC 56191)
- Quebec Construction Code, Chapter I – Building, and National Building Code of Canada 2015 (amended)
- Montreal’s roadmap to zero emission buildings 2040

Proven technology meets next-generation building envelope engineering.

- Aluminum chassis based on curtain wall technology
- High performance insulation, thermal bridge free, with effective R-values as high as 47.5 for opaque
- External rainscreen façade, material to suit required architectural aesthetic, limitless possibilities
- High performance glazing systems (to suit aesthetic and performance requirements)
- Durable sealed construction to meet the demands of full building airtight commissioning
- Suitable for mass timber construction with alternate assemblies also available in GLT or CLT framing

Rigorous testing shows that Speedwall meets and exceeds current and upcoming building code requirements.

- ASTM E283 Air Infiltration 0.04 L/s.m² @ 600Pa (10% of allowable)
- ASTM E331 Static Water Test: No water infiltration at 720Pa
- AAMA 501.1 Dynamic Water Test: No water penetration at 720Pa
- ASTM E330 Structural Test: Passed
- AAMA 501.4 Seismic Test: Passed
- CAN/ULC S134 Fire Test: Passed
- ASTM E90 Acoustical Testing:
 - Can achieve STC ratings of 55
 - Can achieve OITC ratings of 41

limitless colours and finishes can be chosen to meet design intent



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