CASCADIA CONNECT

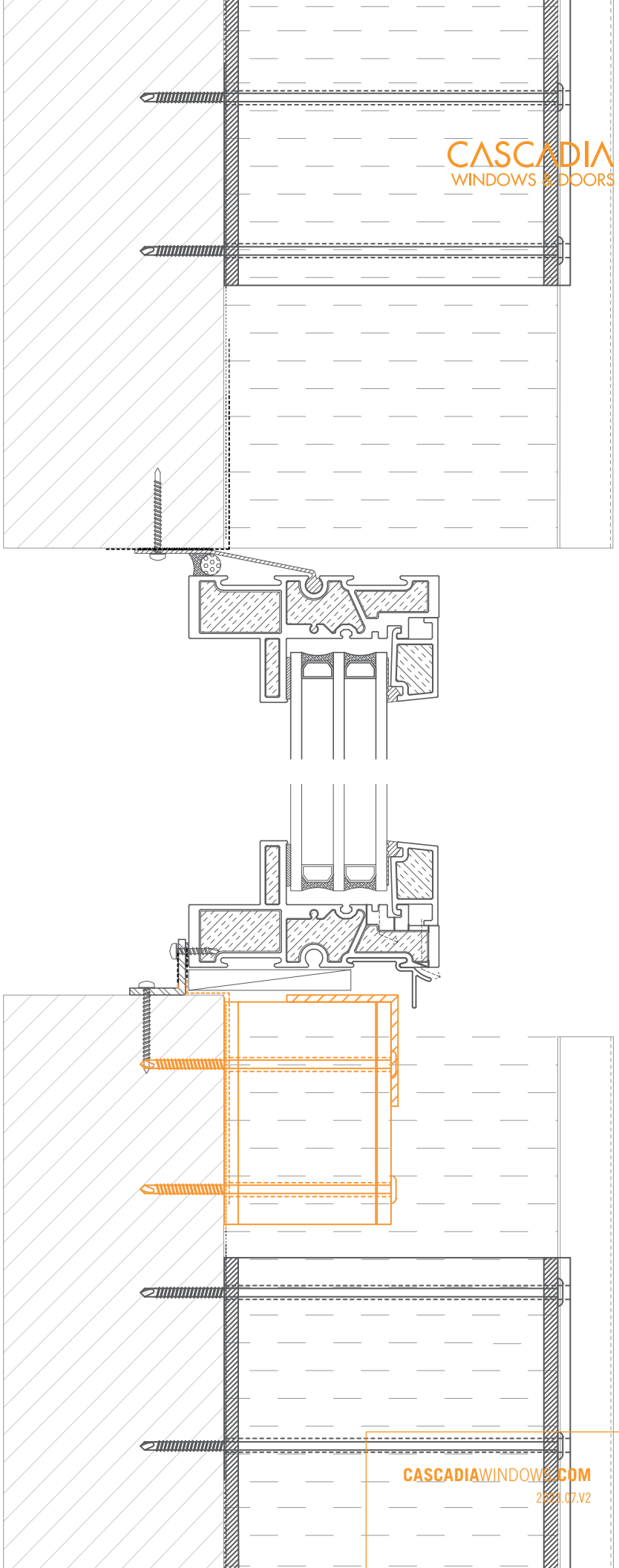
THERMAL WINDOW-TO-WALL SUPPORT SYSTEM

The Cascadia Connect Thermal Window-to-Wall Support System is a simple, pre-engineered window-to-wall connection system designed to optimize thermal performance, simplify installation, and reduce exterior wall thickness in both new construction and retrofit projects.

Developed by the team at Stantec, this innovative solution significantly reduces thermal bridging at window transitions—enhancing energy efficiency without sacrificing design flexibility.

- Seamlessly integrates Universal Series™ fiberglass windows with Cascadia Clip® for a unified envelope solution
- Successfully tested to ASTM E1105, static method, 15min continuous air pressure differential at 730pa
- Utilizes low-conductivity fiberglass to boost energy efficiency and reduce thermal bridging
- Maintains a continuous thermal envelope across windows and exterior insulation
- Enables thinner, high-performance walls—ideal for retrofits and compact envelope designs
- Simplifies detailing to meet energy codes and airtightness with ease

DOWNLOAD STANTEC MODELLING AT
THERMALENVELOPE.CA



CASCADIA WINDOWS & DOORS

INCREASE OVERALL ENVELOPE THERMAL PERFORMANCE

The Cascadia Connect System delivers an average 184% increase in thermal performance at window interfaces—reducing linear transmittance by up to 195% compared to conventional connections.

By minimizing energy loss at head, jamb, and sill connections, the system supports high-performance envelope design and simplifies compliance with energy efficiency and airtightness standards.

+184% INCREASE
AVERAGE THERMAL PERFORMANCE

PROJECT COMPARISON EXAMPLE

	CONVENTIONAL WINDOW CONNECTION Btu/ft·hr·°F (W/m K)	CASCADIA CONNECT SYSTEM Btu/ft·hr·°F (W/m K)	THERMAL PERFORMANCE INCREASE (%)
HEAD	0.303 (0.525)	0.004 (0.007)	+195
JAMB	0.102 (0.176)	0.011 (0.019)	+161
SILL	0.158 (0.273)	0.008 (0.014)	+180
AVERAGE	0.188 (0.325)	0.008 (0.013)	+184

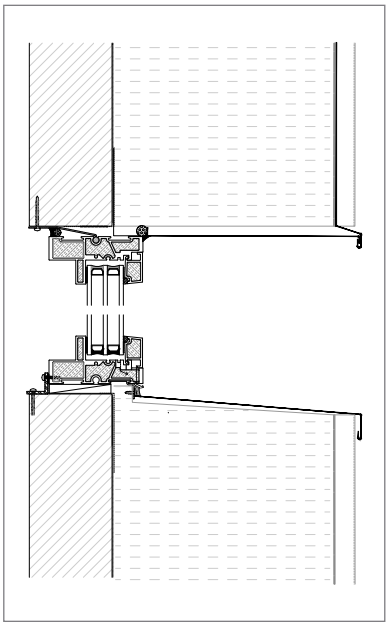
REDUCE COSTS. MAINTAIN PERFORMANCE.

The Cascadia Connect System reduces thermal bridging at window interfaces, allowing projects to achieve high-performance envelope targets with less exterior insulation.

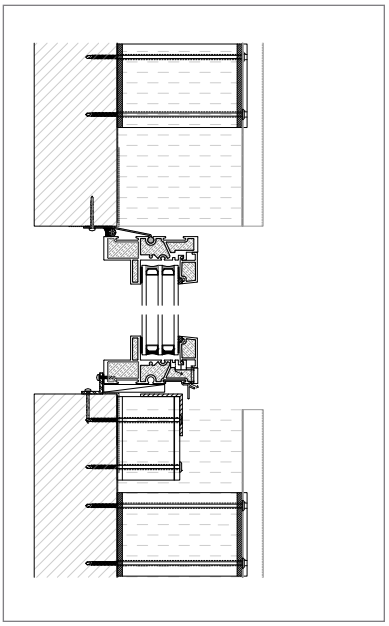
This not only cuts material costs and wall thickness but also simplifies detailing—helping architects, engineers, and envelope consultants deliver efficient, code-compliant designs without compromising performance or space.

42% DECREASE
TOTAL MATERIAL COST ($)

CONVENTIONAL WINDOW CONNECTION



CASCADIA CONNECT SYSTEM



Material / Performance Project Example