



UNICEL
ARCHITECTURAL

Defining the
Space Within®



Aluminum Curtain Wall Systems

VISION 800

Elevate Your Building Envelope

unicelarchitectural.com

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UNICEL
ALUMINUM CURTAIN WALL



High-Performance Curtain Wall Systems for Demanding Environments

Unicel Architectural specializes in large-scale, customized aluminum curtain wall systems designed to meet the highest standards of architectural performance and aesthetics. Our curtain walls are engineered with precision-fabricated framing systems that support complex designs while ensuring long-term structural integrity.

Each system incorporates a robust internal guttering solution with pressure-equalized rainscreen technology to manage water infiltration and condensation effectively—especially critical for tall façade applications. This approach delivers one of the most comprehensive water management solutions available in the curtain wall industry.

Developed through decades of experience in Canadian climatic conditions, Unicel Architectural's curtain wall systems are built to accommodate extreme temperature fluctuations, high wind loads, and thermal movement. Our expertise in vertical glazing applications ensures reliable performance in air and water tightness, condensation control, and energy efficiency.



For enhanced building envelope performance, our curtain walls can be integrated with Vision Control®—Unicel Architectural's patented louvered insulating glass unit—providing dynamic control over daylight, solar heat gain, and occupant privacy.



Unicel Architectural curtain wall systems with motorized louvers optimize solar heat gain and lighting. This results in a reduction in HVAC costs and a significant increase in energy efficiency.



Unicel Architectural's curtain wall systems are engineered for superior performance.

They are designed using the principles of rainscreen and pressure equalization. All components are silicone-compatible to ensure long-lasting durability. The systems are tested according to industry standards.

Vision 800S

Performance Standards & Certifications

Air Infiltration

CAN/CSA A440-00

ASTM E283

Water Penetration

CAN/CSA A440-00

ASTM E547

ASTM E331

Structural Performance

CAN/CSA A440-00

ASTM E330

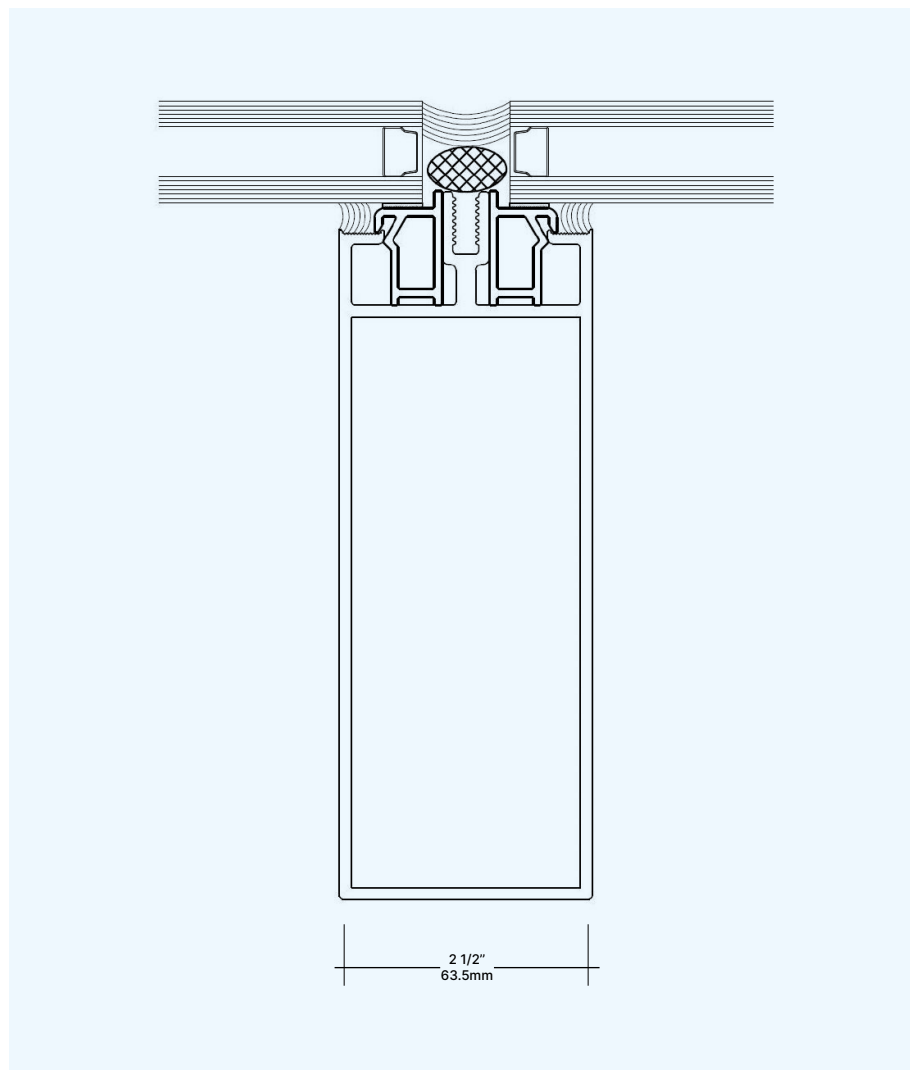
Condensation Resistance

CAN/CSA A440-00

System

VISION 800S system adapts to various glazing thicknesses.

Mullions of different depths are available based on project requirements.



Vision 800R / HP

Unicel Architectural curtain wall systems are engineered for high-performance façades that meet stringent building envelope requirements.

Each system is designed with pressure-equalized rainscreen technology and features an internal guttering system to effectively manage water penetration and condensation at multiple points across the vertical span.



Structural components are compatible with structural silicone sealants and designed to accommodate thermal expansion and contraction, ensuring long-term durability across diverse climates. Our systems are rigorously tested in accordance with recognized industry standards for air infiltration, water resistance, structural load performance, thermal transmittance, and condensation resistance.

Vision 800R / HP

Unicel Architectural's curtain walls deliver not only robust weather protection, but also support integration with high-performance glazing solutions to optimize energy efficiency and occupant comfort.

Performance Standards & Certifications

Air Infiltration

CAN/CSA A440-00

ASTM E283

Water Penetration

CAN/CSA A440-00

ASTM E547

ASTM E331

Structural Performance

CAN/CSA A440-00

ASTM F.3.30

Condensation Resistance

CAN/CSA A440-00

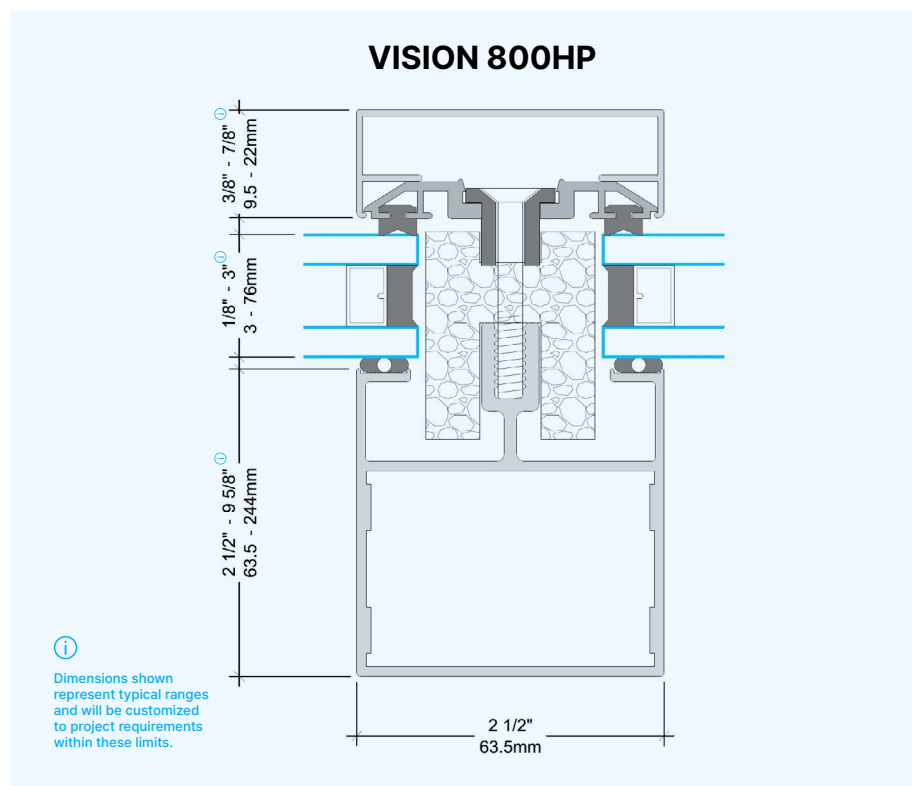
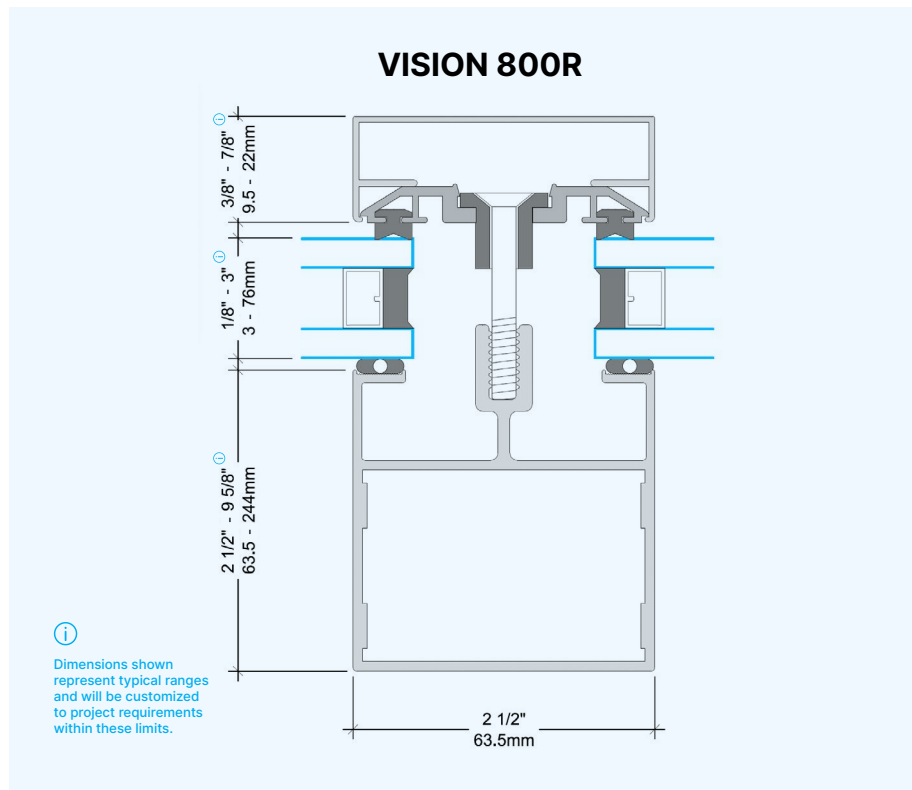
VISION 800R: I=64

VISION 800HP: I=70

System

The VISION 800 system can accommodate a wide range of glazing thicknesses (1/8" to 3" - 3mm to 76mm).

Different horizontal and vertical mullion sizes are available depending on the project requirements.





Unicel Architectural's Aluminum Curtain Walls offer modern, high-performance solutions that seamlessly combine strength, aesthetics, and versatility. Whether you're designing a sleek urban facade or a light-filled atrium, our systems deliver the structural integrity and architectural freedom your project demands.

✓ **High structural performance and air/water resistance**

✓ **Custom sightlines and profiles to meet architectural design intent**

✓ **Compatible with Vision Control® integrated cord-free louvers**

✓ **Thermally broken aluminum framing for enhanced energy efficiency**

Applications

Building Facades

Atriums and Lobbies

Institutional and Commercial Complexes

Sports and Cultural Centers

Markets

Healthcare

Educational

Commercial
Institutional

Civic and Cultural



Scan QR code for quick access to **Aluminum Curtain Wall** product information

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