

516 and 518 Thermal Windows

Delivering Thermal Performance,
Economy and Ease of Installation

Woodsworth College Residence, University of Toronto, Toronto, Ontario, Canada
Architect: architectsAlliance, Toronto, Ontario, Canada
Glazing Contractor: Ferguson-Neudorf Glass, Inc., Beamsville, Ontario, Canada

Designed for punched openings, strip and ribbon window applications, Kawneer's 516 and 518 Thermal Windows provide an economical, high-performance, thermally broken product that is easily fabricated and installed. As a bonus, they are also competitively priced, feature a full rain screen option and offer the ability to incorporate ventilators. A "top hat" feature provides a deeper frame for thicker wall construction, greater structural capability and inset glazing.

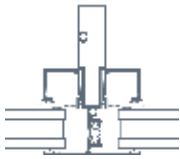
Performance

Responding to owner and designer demand for improved thermal performance, the 0.57" (14.6 mm) IsoPort™ 6/6 glass-reinforced nylon thermal break provides windows with improved condensation resistance and thermal transmittance capability. The rigid profile provides composite structural performance, and 516 and 518 Thermal Windows meet or exceed the highest performance levels for the specifications listed on the reverse side.

Performance Levels

Air Tightness	CAN/CSA-A440 Windows
Water Tightness	CAN/CSA-A440 Windows
Wind-Load Resistance	CAN/CSA-A440 Windows

A major difference between the two windows is the “top hat” feature on the 518 Thermal Window. This provides a 1" (25.4 mm) deeper frame for thicker wall construction and enhanced structural capability on applications requiring sturdier installation and aesthetic performance.



516 Thermal Window



518 Thermal Window

The seamless coupling mullion on the 516 Thermal Window features unbroken weather joints on the exterior surfaces and provision for thermal movement in changing temperatures. Simple joinery with overlapping flanges enables economical construction and provides good weathering capability. Both 516 and 518 Thermal Windows offer a full rain screen option, which provides exterior drainage of any water that penetrates the system.

Head and sill members run between the coupling mullions for easy assembly of the 516 Thermal Window as a series of modular units. Glazing can be installed and replaced from the interior to reduce costs and weather delays. 516 and 518 Thermal Windows accommodate 1" (25.4 mm) sealed glazing units and have lock-in glass stops. Pre-sim butyl glazing tapes are used on the exterior, and EPDM rubber glazing gaskets are used on the interior.



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Aesthetics

516 and 518 Thermal Windows offer classic designs that blend with any type of architecture from traditional to modern and retrofit to new construction:

- Since the IsoPort™ Window comprises two separate extrusions, designers can select different exterior and interior finishes without exceeding budgets.
- Mullion sightlines on both windows are minimized to allow maximum uninterrupted vision.
- Unbroken weather joints on the 516 Thermal Window create a seamless coupling mullion for a sleek look.
- The “top hat” feature on the 518 Thermal Window allows the glass to be set back from the outer face of the framing, providing a different glazing plane and distinctive aesthetics.

For natural ventilation, Kawneer offers the following choices:

- 512 Ventrow Ventilator, which maintains consistent building sightlines whether open or closed, and is easily installed in any fixed frame that is at least 4" (101.6 mm) deep.
- 526 Thermal Window, the universal, thermally broken operator that meets highest performance levels and is factory fabricated and assembled.

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