

The Advanced System that Responds to All Your Needs



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The versatile 1600 Wall System™4 Curtain Wall offers inside glazing, ease of fabrication, low installation costs, design options and high thermal and structural performance. It is the curtain wall that can accommodate monumental applications, multi-lite punched openings and ribbon windows in both new and remodel construction projects. It is truly a product that has it all.

PERFORMANCE

1600 Wall System™4 Curtain Wall incorporates the IsoStrut™ Thermal Break at both the vertical mullion and horizontals. This patented method creates a continuous thermal barrier that substantially improves thermal transmission, condensation resistance and structural performance. IsoStrut™ achieves a high-strength bond between the aluminum and the thermal isolator. This bond creates a composite assembly suitable for use in applications that require the toughest of thermal and structural tests – monumental curtain walls – as well as multi-lite punched openings and ribbon window applications.

For additional economies when the structural performance of IsoStrut™ is not required – for example, in ribbon window applications – Kawneer’s IsoLock™ pour and debridge thermal break can be incorporated. Offering superior thermal performance and a single-piece extrusion, factory-supplied IsoLock™ involves pouring liquid urethane into a cavity or thermal pocket, allowing it to harden and cutting away a small section of aluminum opposite the pour area to fully separate the exterior from the interior aluminum. This thermal barrier improves the U-factor and condensation resistance, and means there are fewer parts to cut and assemble. Therefore, less labor is needed and costs are reduced.

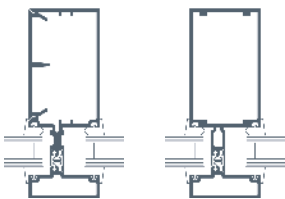
1600 Wall System™4 Curtain Wall uses the same dry glazing, silicone-compatible exterior and interior gasket as Kawneer’s other 1600 Wall Systems™ to ensure a positive weather seal and high performance. 1600 Wall System™4 Curtain Wall has been tested in accordance with all major standards for curtain walls:

Air Infiltration	ASTM E283
Static Water Penetration	ASTM E331
Dynamic Water Penetration	AAMA 501.2
Thermal Transmittance	AAMA 1503.1
Structural Performance	ASTM E330
Seismic Performance	UBC Section No. 2334, (H) 2 (Phase I, Phase II)

ECONOMY

The IsoStrut™ Thermal Break design of 1600 Wall System™4 Curtain Wall provides complete mullion assembly with no pressure plates, screws, thermal separators or covers to install. The patented thermal break also reduces the need for steel reinforcing and lowers initial HVAC requirements while reducing ongoing energy costs.

Additional labor and cost savings are provided by the ease and speed of sheer block fabrication, coupled with the low installation costs of inside glazing and one-step engagement of snap-on exterior horizontal covers. The system simplifies inventory by utilizing many other 1600 Wall System™ parts such as SSG verticals, setting blocks, weathering, joint plugs, side blocks and fasteners. 1600 Wall System™4 Curtain Wall is offered both as a factory-fabricated and stock-length product to suit project conditions.



AESTHETICS

Since the IsoStrut™ Thermal Break design in 1600 Wall System™4 Curtain Wall comprises two separate aluminum extrusions, designers can select different exterior and interior finishes without exceeding budgets. The 2-1/4" (57.2 mm) face dimension incorporates both a shallow and deep vertical mullion. 1600 Wall System™4 Curtain Wall is offered in both a 6" (152.4 mm) and 7-1/2" (190.5 mm) overall frame depth. The system is also offered in an economical ribbon application with a 6" (152.4 mm) frame depth.

The horizontal does not use a pressure plate attachment but a conventional retaining leg. The system is designed for a 1" (25.4 mm) infill, with 1/4" (6.4 mm) spandrel glazing accommodated by adapters. Joint connections feature concealed fasteners to give the system smooth, uninterrupted sightlines. 1600 Wall System™4 Curtain Wall includes inside and outside 90° and 135° corners.

FOR THE FINISHING TOUCH

Architectural Class I anodized aluminum finishes are available in clear and Permanodic™ color choices.

Painted finishes, including fluoropolymer, that meet AAMA 2605 are offered in many standard choices and an unlimited number of specially designed colors.

Solvent-free powder coatings add the “green” element with high performance, durability and scratch resistance that meet the standards of AAMA 2604.