

# Urban Elegance with an Economical Point of View



20 Fulton East Apartments  
Grand Rapids, Michigan  
ARCHITECT  
Pappageorge Haymes Partners, Chicago, Illinois  
WINDOW INSTALLER  
Vos Glass, Grand Rapids, Michigan  
PHOTOGRAPHY  
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Sleek, efficient and versatile. FG 501T Window Wall – the first in the MetroView® Window Wall series – packs the desired aesthetics of a curtain wall into a cost-efficient window wall system. Ideal for mid-rise commercial projects and sophisticated multifamily housing, MetroView® FG 501T Window Wall delivers the refined design features that are so popular in today's urban and near-urban cityscapes.

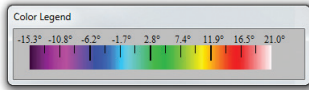
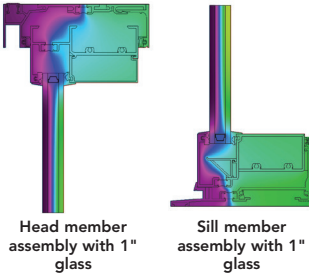
MetroView® FG 501T Window Wall offers the look of a true curtain wall with a slab-to-slab aluminum frame design. For maximum square footage in interior spaces, FG 501T Window Wall is engineered for shallow horizontal inside glazing with the glass set to the front of the system. Screw spline fabrication and joinery means easy construction and low installation costs. And for designs that put skylines within immediate reach, balcony doors can be easily and seamlessly integrated

into the system. With air and water performance equal to many curtain walls and a range of aesthetic options including slab edge covers for a seamless transition between floors, MetroView® FG 501T Window Wall offers a beautiful frame for life.

## PERFORMANCE

MetroView™ FG 501T Window Wall is an economical solution that does not compromise performance to achieve the true look of a curtain wall. The framing process is as streamlined as its appearance, with simple two-piece receptors designed for efficient installation. Optional outside glazing allows for job-site flexibility.

Thermal simulations showing temperature variations from exterior/cold side to interior/warm side



Thermal performance is enhanced with our IsoLock<sup>®</sup> thermal break. The factory-supplied pour and debridge thermal break involves pouring liquid polyurethane into a cavity or thermal pocket, allowing it to harden and then cutting away a small section of aluminum opposite the pour area to fully separate the exterior aluminum from the interior aluminum. This thermal barrier improves the U-factor and condensation resistance and also means there are fewer parts to cut and assemble.

Additionally, the IsoLock<sup>®</sup> thermal break process is used to eliminate expansion and contraction of the polyurethane. Prior to the pouring operation, the aluminum is lanced into the cavity at a predetermined increment. The lanced aluminum creates a positive interlock in the polyurethane before it hardens, eliminating any potential for shrinkage. The mechanical locks, combined with the adhesive bond of the polyurethane to the aluminum, create a composite section used to meet design wind loads.

The system is fully tested according to industry standards, as indicated below:

PERFORMANCE TEST STANDARDS

Air Infiltration	ASTM E283, NFRC 400, TAS 202
Water	ASTM E331, ASTM E547, TAS 202
Severe Wind-Driven Rain	AAMA 520
Structural – Uniform Wind Load	ASTM E330, TAS 202
Acoustical Testing, STC and OITC	AAMA 1801, ASTM E90, ASTM E1425
Thermal Transmittance – U-Factor	NFRC 100, AAMA 1503, AAMA 507
Condensation Resistance (CRF and CR)	AAMA 1503, NFRC 500
Overall Solar Heat Gain (SHGC, VT)	AAMA 507, NFRC 200
Condensation Resistance	AAMA 1503

**AESTHETICS AND VERSATILITY**

It is easy to achieve dramatic floor-to-ceiling views with FG 501T Window Wall. The 2-1/4" sightline and standard 5" depth make it easy to achieve stylish urban aesthetics. For clean design lines, the system features a slab-to-slab application with an integrated slab edge. The system provides an appealing look for any type of application and accommodates single- and multi-punched openings or ribbon windows. Corner members for either 90° or 135° applications increase design flexibility, and expansion verticals can be incorporated as desired for a truly customized application.

Painted finishes in standard and custom choices are available.

