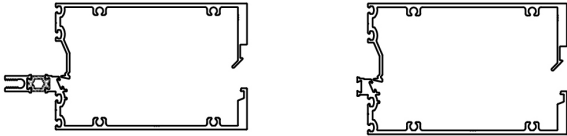


ThermaWall SM 2600 Thermally Broken Curtain Wall

Product Description

High performance, prefabricated pre-glazeable split mullion curtain wall system with 2-1/2" (63.5mm) width profile and mullion depths of 5-1/4" (133.4mm) and 6-5/8" (168mm). Available in both double and triple glazed.



Recommended use

Low to medium rise curtain wall when high performance is crucial

Composition & Materials

- 6063 alloy, T6 or T5 temper aluminum extrusions
- Polyamide Thermal Break
- Extruded EPDM or silicone air and weather seal gaskets
- Structural extruded silicone glazing spacer is compatible with structural silicone sealants
- When necessary, internal reinforcing members are galvanized steel to suit engineering requirements
- Anchor devices may be a combination of pre-manufactured aluminum or steel components; project specific designs and/or cadmium plated fasteners

Finishes

Anodic coated finishes in Class I and Class II and architectural painted finishes are available. Also, two colour (exterior and interior) finishes are possible

Limitations

- Capped ThermaWall SM 2600 cannot be fully unitized, pressure plates and caps must be installed from the exterior. SSG ThermaWall SM 2600 can be unitized
- Installation of curtain walls should be reviewed for structural and load requirements
- Curtain wall is intended to be installed perpendicular (90 Degrees) to the floor. Any attempts to change this should be presented to Alumicor at the design stage to ensure drainage paths are maintained
- Contact Alumicor for technical support in this area



Features & Benefits

- High performance, prefabricated/pre-glazeable split mullion curtain wall with a 2-1/2" (63.5 mm) profile
- Mullion depths of 5-1/4" (133.5 mm) and 6 5/8" (168.3 mm)
- Available in both double and triple glazed
- Split mullion and expansion/stack horizontal
- Pre-glazed capability affords shop fabricated quality control
- Alumicor glass support eliminates concerns of dead loads imposed upon thermal breaks
- Four-sided Structural Silicone Glazed (SSG) capability
- Anchor options from complex to simple to suit any project budget
- Compatible with our operable windows, doors, etc.
- A variety of pressure plate caps are available
- Tested to AAMA501 requirements

Warranty

Alumicor standard product warranty applies. Extended warranties may be available. Alumicor's product warranties can be reviewed at www.alumicor.com

Filing System

MasterFormat, UniFormat or OmniClass

Technical Services

Contact any Alumicor regional office by visiting www.alumicor.com

Design Considerations

- Curtain wall designs are complex. It is important for designers and specifiers to ensure that competent manufacturer's representatives are involved in the early stages of the project.
- Some of the considerations that must be addressed at the early design stages are:
 - Design loads
 - Glazing infills (both vision, spandrel and operables)
 - Building construction components (and their effects upon the curtain wall)
 - Thermal performance requirements
 - Seismic requirements
 - Integration of the curtain wall into adjacent construction
 - Modules and spans

Applicable Standards

AAM 501- Methods for Test for Exterior Walls
AAMA 501.1 - Standard Test Method for Metal Curtain Walls for Water Penetration Using Dynamic Pressure.
AAMA 501.5 - Thermal Cycling
AAMA 501.4 - Seismic and Wind Induced Interstory Drift
ASTM E283 - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences across the Specimen
ASTM E331 – Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
ASTM E330 – Standard Test Method for Structural Performance of Exterior Windows, Doors Skylights and Curtain Walls by Uniform Static Air Pressure Difference

Maintenance

Cleaning should be undertaken as soon as possible after installation to remove construction and environmental dirt and impurities. Cleaning should begin at the top of the building and proceed downward in a continuous operation. Care should be taken to prevent the use of procedures and cleaning materials that could damage the finishes of the aluminum, glass, infill panels or adjacent building components. The curtain wall system should be cleaned annually using approved, non-abrasive cleaners and potable water. Cleaning of aluminum components should be performed in accordance with AAMA 609.1 and 610.2.

*Tests performed by Intertek, 6225 Kenway Drive, Mississauga, Ontario, L5T 2L3.
Copies of test reports available upon request.

Installation

Alumicor recommends that installation be by authorized Alumicor dealers. Contact your Alumicor representative to confirm the trade contractor is authorized to install Alumicor products. Specifiers may wish to incorporate the requirement of a Product Confirmation as a Submittals requirement. Adhere to design, specifications, manufacturers published manuals and recommended industry practice.

Availability & Cost

Availability: Thermawall SM 2600 thermally broken curtain wall is available through authorized Alumicor dealers that are competent in fabrication, assembly and/or installation of the system

Cost: The cost of ThermaWall SM 2600 thermally broken curtain wall is dependent upon design, extent of project, finishes, glazing infill's, custom requirements, and project location. Contact Alumicor regional offices for pricing and/or a list of authorized Alumicor dealers that are authorized in fabrication, assembly and/or installation of the system

Physical Properties

Property	Test Method	Allowable & Results
Air Infiltration 300 Pa (6.27 psf)	ASTM E283	Allowable - 0.3 L/s.m.2 (0.06 cfm/ft2) Results - 0.04 L/s.m.2 (0.008 cfm/ft2)
Air Exfiltration 300 Pa (6.27 psf)	ASTM E283	Allowable - 0.3 L/s.m.2 (0.06 cfm/ft2) Results - 0.03 L/s.m.2 (0.006 cfm/ft2)
Static Water Penetration	ASTM E331	Allowable - No uncontrolled water penetration Results - Passed @ 720 Pa (15.0 psf)
Dynamic Water Penetration	AAMA -501.1	Allowable - No uncontrolled water penetration Results - Passed @ 720 Pa (15.0 psf)
Structural Design Load Deflection	ASTM E330	Allowable - L/175 Passed- +1920 Pa, (+40 psf) - 1920 Pa,(-40 psf) Allowable No damage or permanent deformation exceeding 0.2% Passed- +2880 Pa, (+60 psf) - 2880 Pa,(-60 psf)
Thermal Cycling	AAMA -501.5	Subjected to three cycles Hot conditions - Nominal + 60oC (140oF) Cold conditions - Nominal -35oC (-31oF) Passed - no damage or failures
Seismic and Wind Induced Interstory Drift	AAMA -501.4	Subjected to three cycles 19 mm (0.75") to the left. Return to initial position 19 mm (0.75") to the right. Return to initial position Passed - no damage or failures