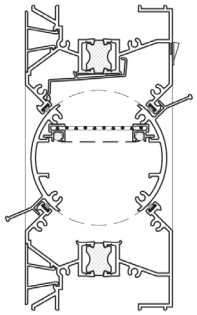
Technical Data Sheet

RotoVent SV2000 - Specialty Window

Product Description

Low profile, cost effective rotating ventilator that provides secure direct airflow.



Recommended use

For use in curtain wall, fixed window systems or storefronts

Composition & Materials

- 6063 alloy, T6 or T5 temper aluminum extrusions
- Foam PVC thermal break
- Compatible with structural silicone sealants

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

- Overall height of RotoVent SV2000 is 6 ¾" (171.5mm) which cannot be altered
- A single drum RotoVent can be made up to 48" (1219mm) in width. Widths from 48" (1219mm) up to 72" (1829mm) will be equipped with two separately operating drums
- Does not come equipped with a locking mechanism as a standard feature, locks must be specified (not typically required above ground level)

Features & Benefits

- Low 6 ¾" (168 mm) profile with rain screen design
- Widths up to 72" (1830mm)
- High performance thermal break permits two colour interior / exterior finishes
- Added security with optional locks
- Full width integral handle
- Stainless steel security screen and fiberglass insect screen
- Factory fabricated at Alumicor facilities only
- Tested to AAMA and CSA 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

• 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)
- Seismic requirements
- Integration of the window into adjacent construction
- Modules and spans

Applicable Standards

NAFS- AAMA/WDMA/CSA 101/I.S.2/A440-08
NAFS-AAMA/WDMA/CSA 101/I.S.2/A440S1-09 Canadian Supplement
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 E547- Standard Test Method for Water Penetration for Exterior Windows, Skylights, Doors and Curtain Walls by Cyclic 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.

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: Available through authorized Alumicor dealers that are competent in fabrication, assembly and/or installation of the system
Cost: The cost depends 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 certified in fabrication, assembly and/or installation of the system

Physical Properties

Property	Test Method	Result
Air Infiltration 75 Pa (1.57 psf)	ASTM E283	Allowable - 0.50 L/s.m² (0.10 cfm/ft²) Results - 0.37 L/s.m²(0.07 cfm/ft²)
Air Exfiltration 300 Pa (6.27 psf)	ASTM E283	Allowable - 0.50 L/s.m.²(0.10 cfm/ft²) Results - 0.49 L/s.m² (0.09 cfm/ft²)
Water Penetration by Cyclic Air Pressure Difference	ASTM E547	Allowable - No uncontrolled water penetration Results - Passed @ 730 Pa (15.25 psf))
Structural Design Load Deflection	ASTM E330	Allowable - L/175 Passed- +3360 Pa, (+70.18 psf) - 3360 Pa,(-70.18 psf) Allowable No damage or permanent deformation exceeding 0.2% Passed- +5040 Pa, (+105.26 psf) - 5040 Pa,(-105.26 psf)

*Tests performed by Exova, 2395 Speakman Drive, Mississauga, Ontario, L5K 1B3
Copies of test reports available upon request

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