MODEL RSV-5700
CS 5” (127.0 mm) STORM RESISTANT FIXED VERTICAL LOUVER

Construction Specialties Inc. certifies that Model RSV-5700 shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to wind driven rain and air performance ratings only.

DESIGN DATA:
For a 4 Foot by 4 Foot Unit. Tested with mill finish and no screen

- Free area = 7.32 ft² (0.680 m²)
- Percent free area = 45.7%

DESIGN DATA:
To maintain a CLASS A (99%) effectiveness rating with a 29.1 mph wind speed and a rainfall rate of 3 in/hr
- Maximum intake core velocity 5.0 m/s (986 FPM)
- Maximum intake free area velocity 9.9 m/s (1,936 FPM)

To maintain a CLASS A (99%) effectiveness rating with a 50 mph wind speed and a rainfall rate of 8 in/hr
- Maximum intake core velocity 5.0 m/s (980 FPM)
- Maximum intake free area velocity 10.49 m/s (2,064 FPM)

*louvers tested with 1m² core area, mill finish and no screen

SUGGESTED SPECIFICATIONS:

GENERAL: Furnish and install where indicated on the drawings CS 5” (127.0 mm) STORM RESISTANT FIXED VERTICAL LOUVER MODEL RSV-5700 as manufactured by Construction Specialties, Inc., Cranford, NJ or Mississauga, Ontario. Complete details shall be submitted to the architect for approval prior to fabrication.

MATERIAL: Frames and blades to be fabricated from 6063-T6 aluminum alloy. Blades to be minimum 0.060” (1.52mm) thick and frames to be minimum 0.075” (1.91 mm) thick. Louver to be mechanically fastened using stainless steel or aluminum fasteners. Louvers to be supplied with 4” (101.6 mm) high by full depth sill flashing formed from minimum 0.050” (1.27 mm) thick aluminum. Sill flashing to have welded side panels. Louvers and sill flashing to be installed in accordance with the manufacturer’s recommended procedures to ensure complete water integrity performance of louver system. All louvers to be furnished with ½” intercrimp aluminum mesh, 0.063” diameter wire removable aluminum bird screen in an aluminum frame.

STRUCTURAL DESIGN: Structural supports shall be designed and furnished by the louver manufacturer to carry a wind load of not less than _____psf. (kPa). (Note: If this paragraph is omitted or if the design wind load is not specified, the louvers will be manufactured in self supporting units up to a maximum of 5’ (1524 mm) wide by 8’ (2438 mm) high. Any additional structural supports required to adequately secure these units within the opening shall be the responsibility of others.)

FINISH: All louvers shall be finished with CS Powder Coat, a coating to be 1.5 to 3 mil. thick full strength 100% resin Fluoropolymer coating. Finish to allow zero VOCs to be emitted into facility of application. Finish to adhere to a 4H Hardness rating. All finishing procedures shall be one continuous operation in the plant of the manufacturer. The coating shall meet or exceed all requirements of AAMA specification 2605 “Voluntary Specification for High Performance Organic Coatings on Architectural extrusions and Panels.” The louver manufacturer shall supply an industry standard 20-year limited warranty against failure or excessive fading of the Fluoropolymer Powder Coat finish. This limited warranty shall begin on the date of material shipment.

WIND DRIVEN RAIN PERFORMANCE:
The louver test was based on a 39.370” (1.00 m) x 39.370” (1.00 m) core area unit tested at a rainfall rate of 3” per hour (75 mm/hr) and with a wind directed to the face of the louver at a velocity of 29.1-mph (13 m/s) as well as a rainfall rate of 8” per hour (203mm) and wind directed at the face of the louver at a velocity of 50.0 mph (22.3 m/s). The test data shall show the water penetration effectiveness rating at each corresponding ventilation rate.

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Discharge Coefficient
Intake Cd = 0.33 (Class 2)
For a 48” x 48” sized louver tested to figure 5.5. Data corrected to standard air density
AMCA certifies the coefficient class only

To download details and specifications visit www.c-sgroup.com. For technical and design assistance call 800-631-7379