

Construction Specialties Inc. certifies that the louver model RS-7705 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 ratings, Water Penetration Ratings and Air Performance ratings

DESIGN DATA:

To maintain a **CLASS A (99%) effectiveness rating** with a 29.1 mph wind speed an rainfall rate of 3 in/hr

- Maximum intake core velocity 2.5 m/s (483 FPM)
- Maximum intake free area velocity 4.4 m/s (871 FPM)

To maintain a **CLASS B (95%) effectiveness rating** with a 29.1 mph wind speed an rainfall rate of 3 in/hr

- Maximum intake core velocity 4.5 m/s (870 FPM)
- Maximum intake free area velocity 8.0 m/s (1,570 FPM)

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



AIRFLOW DATA:

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

- Free area = 8.00 ft² (0.743 m²) = 50.0%
- Free area velocity at the point of beginning water penetration = 1,240 FPM (6.30 m/s)
- Maximum recommended air intake velocity = 1040 FPM (5.28 m/s)
Pressure drop @ 1,040 FPM free area velocity = 0.30 in. H₂O (74.5 Pa)
- Maximum recommended air exhaust velocity = 1,407 FPM (7.15 m/s)
Pressure drop @ 1,407 FPM free area velocity = 0.50 in. H₂O (124.2 Pa)

SUGGESTED SPECIFICATIONS:

GENERAL: Furnish and install where indicated on the drawings C/S 7" (177.8 mm) STORM RESISTANT FIXED HORIZONTAL LOUVER MODEL RS-7705 as manufactured by Construction Specialties, Inc., Lebanon or NJ.

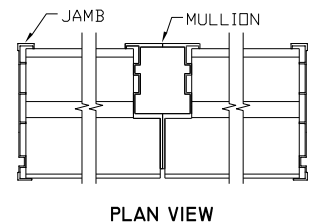
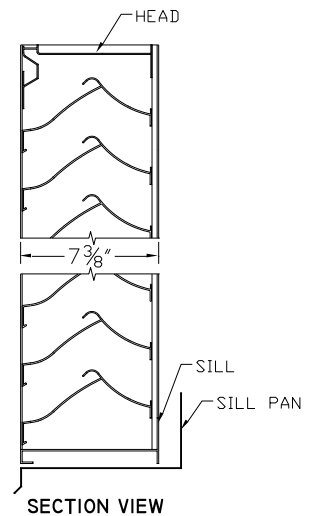
MATERIAL: Frames and blades to be fabricated from 6063-T6 aluminum alloy. Blades to be minimum 0.075" (1.91mm) thick, jambs and mullions to be minimum 0.081" (2.06 mm) thick, head to be minimum 0.063" (1.60mm) thick. Louver to be mechanically fastened using stainless steel or aluminum fasteners. Louvers 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 5/8" (15.87 mm) flattened expanded mesh, aluminum bird screen with a 0.055" (1.4 mm) thick extruded 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 C/S 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 29.1-mph (13 m/s). The test data shall show the water penetration effectiveness rating at each corresponding ventilation rate.



Discharge Coefficient
Intake Cd = 0.26 (Class 3)
AMCA certifies the coefficient class only

Core Ventilation Rate (m/s):	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
Core Ventilation Rate (ft/min):	0	132	197	295	374	483	584	680	758	870	991
Free Area Velocity (ft/min):	0	238	355	532	675	871	1054	1227	1368	1570	1788
Rating Effectiveness @ 29 & 3	A	A	A	A	A	A	B	B	B	B	C
Effectiveness Ratio @ 29 & 3 (%)	100	100	100	100	99.9	99.6	98.8	98.0	98.1	95.6	93.2

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

