

Construction Specialties Middle East LLC certifies that Model RS-9615 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.

APPLICATION AND DESIGN:

RS-9615 is tested in accordance with AMCA 500-L Air Performance and Wind Driven Rain. RS-9615 is tested in accordance with AMCA 550 Test Method for High Velocity Wind Driven Rain Resistant Louvers. RS-9615 is tested in accordance with AMCA 540 Test Method for Louvers Impacted by Wind Borne Debris (Basic Protection, Missile Level D and Enhanced Protection, Missile Level E). Minimum louver section size to be 16” x 16”.



TEST DATA:

To maintain a **CLASS A (99%) effectiveness rating** with a 50 mph wind speed an rainfall rate of 8 in/hr

- Maximum intake core velocity 5.0 m/s (977 FPM)
- Maximum intake free area velocity 7.57 m/s (1490 FPM)
- Intake pressure drop 188 Pa (0.76 in. H₂O)
- Intake capacity 5.0 m³/s (10513 CFM)

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

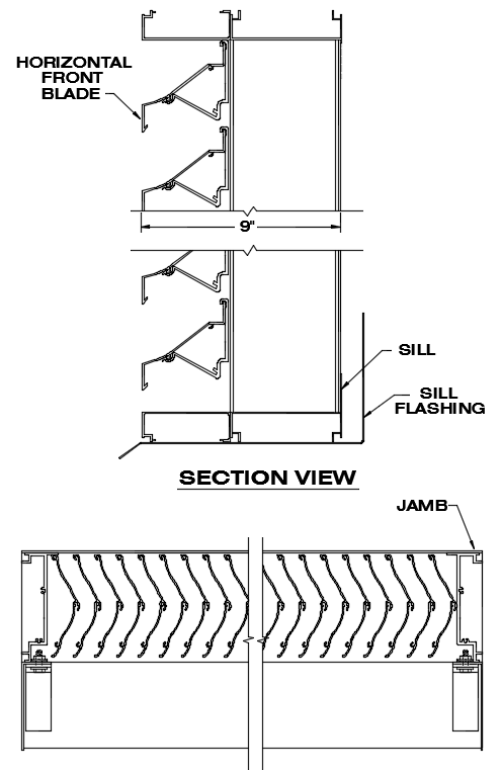
SUGGESTED SPECIFICATIONS:

GENERAL: Furnish and install where indicated on the drawings C/S 9” (228.6 mm) STORM RESISTANT FIXED HORIZONTAL LOUVER **MODEL RS-9615** as manufactured by Construction Specialties Middle East LLC, Dubai UAE. Complete details shall be submitted to the architect for approval prior to fabrication. The supplier must be a member of AMCA or BSRIA.

MATERIAL: Frames and blades to be fabricated from 6063-T6 aluminum alloy. Louver to be mechanically fastened using stainless steel or aluminum fasteners. Louvers to be supplied with 6” (152.4 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 .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 4’ (1219 mm) wide by 10’ (3048 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.



Discharge Coefficient
Intake Cd = 0.29 (Class 3)
AMCA certifies the coefficient class only

PERFORMANCE DATA MODEL RS-9615

WIND DRIVEN RAIN PERFORMANCE:

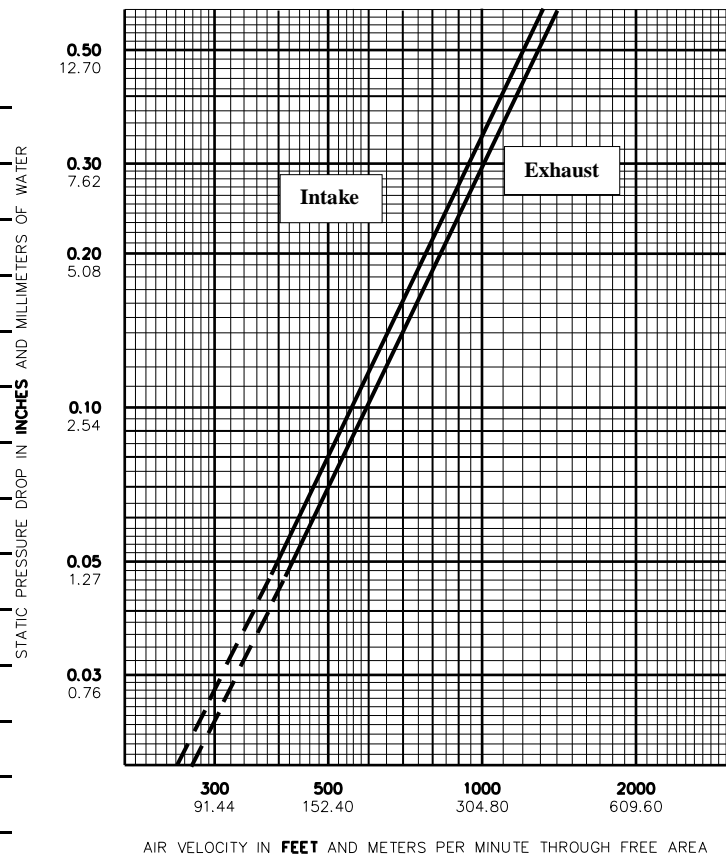
The louver test was based on a 39.370" (1.00 m) x 39.370" (1.00 m) core area unit tested at a rainfall rate of 8" per hour (203 mm/hr) and with a wind directed to the face of the louver at a velocity 50 mph (22.4 m/s). The test data shall show the water penetration effectiveness rating at each corresponding ventilation rate.

| | | | | | | | | | | | |
|----------------------------------|---------------|-----|-------------------|-----|-----|-------------------|-----|---------------|------|-------|------|
| Core Ventilation Rate (m/s): | 0.0 | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.3 | 5.0 |
| Core Ventilation Rate (ft/min): | 0 | 98 | 197 | 295 | 394 | 492 | 591 | 689 | 787 | 854 | 977 |
| Free Area Velocity (ft/min): | 0 | 150 | 300 | 450 | 600 | 750 | 900 | 1050 | 1201 | 1302 | 1490 |
| Rating Effectiveness: | A | A | A | A | A | A | A | A | A | A | A |
| Effectiveness Ratio @ 50 & 8 (%) | | | | | | | | | | 100.0 | 99.7 |
| Effectiveness Rating: | A = 1 to 0.99 | | B = 0.989 to 0.95 | | | C = 0.949 to 0.80 | | D = 0.80 to 0 | | | |

For a 48" X 48" sized louver
Data corrected to standard air density
Louvers tested to Figure 5.5

Width in Inches and Meters

| | 16 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |
|------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 0.41 | 0.46 | 0.61 | 0.76 | 0.91 | 1.07 | 1.22 | 1.37 | 1.52 |
| 16 | 0.68 | 0.79 | 1.13 | 1.47 | 1.80 | 2.14 | 2.48 | 2.82 | 3.16 |
| | 0.41 | 0.06 | 0.07 | 0.10 | 0.14 | 0.17 | 0.20 | 0.23 | 0.26 |
| 18 | 0.80 | 0.93 | 1.33 | 1.72 | 2.12 | 2.52 | 2.92 | 3.31 | 3.71 |
| | 0.46 | 0.07 | 0.09 | 0.12 | 0.16 | 0.20 | 0.23 | 0.27 | 0.31 |
| 24 | 1.15 | 1.34 | 1.92 | 2.50 | 3.07 | 3.65 | 4.22 | 4.80 | 5.38 |
| | 0.61 | 0.11 | 0.12 | 0.18 | 0.23 | 0.29 | 0.34 | 0.39 | 0.45 |
| 30 | 1.51 | 1.76 | 2.51 | 3.27 | 4.02 | 4.78 | 5.53 | 6.29 | 7.04 |
| | 0.76 | 0.14 | 0.16 | 0.23 | 0.30 | 0.37 | 0.44 | 0.51 | 0.58 |
| 36 | 1.87 | 2.18 | 3.11 | 4.04 | 4.97 | 5.91 | 6.84 | 7.77 | 8.71 |
| | 0.91 | 0.17 | 0.20 | 0.29 | 0.38 | 0.46 | 0.55 | 0.64 | 0.72 |
| 42 | 2.22 | 2.59 | 3.70 | 4.81 | 5.93 | 7.04 | 8.15 | 9.26 | 10.37 |
| | 1.07 | 0.21 | 0.24 | 0.34 | 0.45 | 0.55 | 0.65 | 0.76 | 0.86 |
| 48 | 2.58 | 3.01 | 4.30 | 5.59 | 6.88 | 8.17 | 9.46 | 10.75 | 12.04 |
| | 1.22 | 0.24 | 0.28 | 0.40 | 0.52 | 0.64 | 0.76 | 0.88 | 1.00 |
| 54 | 2.94 | 3.42 | 4.89 | 6.36 | 7.83 | 9.30 | 10.76 | 12.23 | 13.70 |
| | 1.37 | 0.27 | 0.32 | 0.45 | 0.59 | 0.73 | 0.86 | 1.00 | 1.14 |
| 60 | 3.29 | 3.84 | 5.49 | 7.13 | 8.78 | 10.43 | 12.07 | 13.72 | 15.36 |
| | 1.52 | 0.31 | 0.36 | 0.51 | 0.66 | 0.82 | 0.97 | 1.12 | 1.27 |
| 66 | 3.65 | 4.26 | 6.08 | 7.91 | 9.73 | 11.56 | 13.38 | 15.21 | 17.03 |
| | 1.68 | 0.34 | 0.40 | 0.57 | 0.73 | 0.90 | 1.07 | 1.24 | 1.41 |
| 72 | 3.83 | 4.47 | 6.38 | 8.29 | 10.21 | 12.12 | 14.03 | 15.95 | 17.86 |
| | 1.83 | 0.36 | 0.41 | 0.59 | 0.77 | 0.95 | 1.13 | 1.30 | 1.48 |
| 78 | 4.18 | 4.88 | 6.97 | 9.07 | 11.16 | 13.25 | 15.34 | 17.43 | 19.53 |
| | 1.98 | 0.39 | 0.45 | 0.65 | 0.84 | 1.04 | 1.23 | 1.43 | 1.62 |
| 84 | 4.54 | 5.30 | 7.57 | 9.84 | 12.11 | 14.38 | 16.65 | 18.92 | 21.19 |
| | 2.13 | 0.42 | 0.49 | 0.70 | 0.91 | 1.13 | 1.34 | 1.55 | 1.76 |
| 90 | 4.90 | 5.71 | 8.16 | 10.61 | 13.06 | 15.51 | 17.96 | 20.41 | 22.86 |
| | 2.29 | 0.46 | 0.53 | 0.76 | 0.99 | 1.21 | 1.44 | 1.67 | 1.90 |
| 96 | 5.25 | 6.13 | 8.76 | 11.38 | 14.01 | 16.64 | 19.27 | 21.89 | 24.52 |
| | 2.44 | 0.49 | 0.57 | 0.81 | 1.06 | 1.30 | 1.55 | 1.79 | 2.03 |
| 102 | 5.61 | 6.55 | 9.35 | 12.16 | 14.96 | 17.77 | 20.57 | 23.38 | 26.19 |
| | 2.59 | 0.52 | 0.61 | 0.87 | 1.13 | 1.39 | 1.65 | 1.91 | 2.17 |
| 108 | 5.97 | 6.96 | 9.95 | 12.93 | 15.91 | 18.90 | 21.88 | 24.87 | 27.85 |
| | 2.74 | 0.55 | 0.65 | 0.92 | 1.20 | 1.48 | 1.76 | 2.03 | 2.31 |
| 114 | 6.32 | 7.38 | 10.54 | 13.70 | 16.87 | 20.03 | 23.19 | 26.35 | 29.52 |
| | 2.90 | 0.59 | 0.69 | 0.98 | 1.27 | 1.57 | 1.86 | 2.15 | 2.45 |
| 120 | 6.68 | 7.79 | 11.14 | 14.48 | 17.82 | 21.16 | 24.50 | 27.84 | 31.18 |
| | 3.05 | 0.62 | 0.72 | 1.03 | 1.34 | 1.66 | 1.97 | 2.28 | 2.59 |



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Upper Numerals English Units/Lower Numerals Metric Units