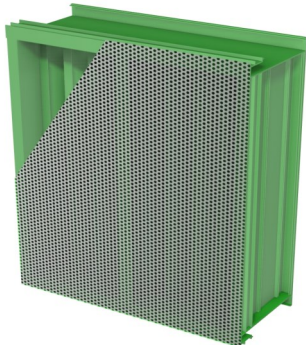


Model—RSR-545VPF

7" (178mm) DEEP STORM RESISTANT LOUVER WITH PERFORATED SHEET



PERFORMANCE:

- Free Area: **54.6%** , based on a test sample of 48 in (1219 mm) x 48 in (1219 mm)
- Beginning point of water penetration (@0.01oz. / ft2 of free area)—**1250fpm (6.35 m/s)**
- Maintains **Class A** rating with 29mph wind velocity @ 3 in/hr rainfall rate @ Max. intake core velocity – **984 fpm (5.0m/s)**
- Maintains **Class A** rating with 50mph wind velocity @ 8 in/hr rainfall rate @ Max. intake core velocity—**984fpm (5.0 m/s)**
- Intake pressure drop at beginning point of water penetration – **0.28 in. wg (70Pa)**
- Intake pressure drop @ 987 fpm free area velocity—**0.18 in. wg (45 Pa)**

| Rainfall rate (in. per hour) : 3 | | | | | | | | | | | |
|----------------------------------|---|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Wind velocity (mph) : 29 | | | | | | | | | | | |
| Core Velocity, fpm (m/s) | 0.0 | 98 (0.5) | 197 (1.0) | 295 (1.5) | 393 (2.0) | 492 (2.5) | 590 (3.0) | 688 (3.5) | 787 (4.0) | 885 (4.5) | 984 (5.0) |
| Effectiveness (%) | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Penetration Class | A | A | A | A | A | A | A | A | A | A | A |
| Rainfall rate (in. per hour) : 8 | | | | | | | | | | | |
| Wind velocity (mph) : 50 | | | | | | | | | | | |
| Core Velocity, fpm (m/s) | 0.0 | 96(0.5) | 197 (1.0) | 288 (1.5) | 396 (2.0) | 482 (2.5) | 587 (3.0) | 691 (3.5) | 791 (4.0) | 888 (4.5) | 984 (5.0) |
| Effectiveness (%) | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99.5 | 99.6 | 99.6 |
| Penetration Class | A | A | A | A | A | A | A | A | A | A | A |
| Classification | A = 99.9% - 99% ; B = 98.9% - 95% ; C = 94.9% - 80% ; D = below 80% | | | | | | | | | | |

Suggested Specifications:

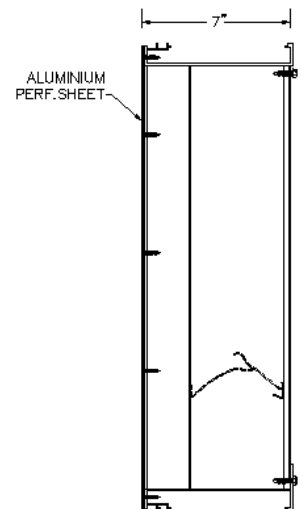
General: Furnish and install where indicated on drawings 7" (178mm) High Performance Rain Defense Louver Model with Perforated Sheet as manufactured by Ontario Specialty Architectural Products.

System Description:

OSA Rain Storm Resistant series with perforated sheet; extruded aluminum construction; frame with channel profile; corner joints mitered and mechanically fastened, with continuous recessed caulking channel each side; intermediate mullions matching frame; gutters to drain rain water to jamb and mullion downspouts; rated for an air performance and water penetration maintained effectiveness rate of 0.99.

Material & Finishes:

- RSR-545VPF comprises :
 - Blades: Vertical – Multi Drain Profile
 - Frame depth: 7 inches (178 mm) deep..
 - Facing: Aluminium Perforated Sheet
- Metal Thickness: Frame 0.081 inch (2 mm); blades 0.070 inch (1.78 mm).
- Finish: PE-SDF / PVDF / Anodize after fabrication
- Color: As scheduled.
- Mullions: Concealed or Exposed.
- Screens: Bird mesh / Insect mesh
- Screen location: Interior
- Screening Material: Aluminium / Stainless Steel

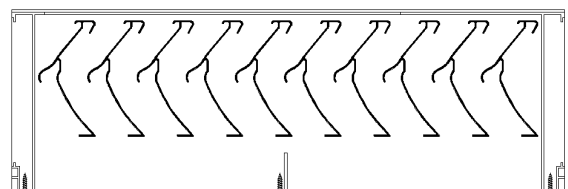


Louver Construction:

- Wind Load Resistance: Design to resist +ve and –ve wind load of ___ psf (___kPa) without damage or permanent deformation.
- Blades: One piece extrusions with reinforcing bosses, supported and lined up with heavy-gage extruded aluminum blade braces, positively interlocked to each blade and mechanically secured to structure by aluminum and stainless steel fastenings.
- Exposed edges and ends of metal dressed smooth, free from sharp edges.
- Exposed connections and joints constructed to exclude water.

Optional Accessories:

- Extended Sill Flashing
- Insulated and Non-insulated Bank-off Panels
- Sub-frames
- Visible Mullions
- Invisible mullions for continuous blade and appearance.

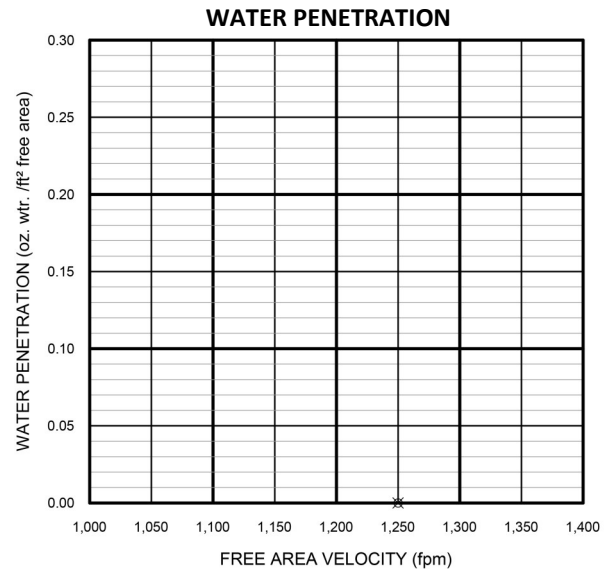


Model—RSR-545VPF

7" (178mm) STORM RESISTANT LOUVER WITH PERFORATED SHEET



| | | FREE AREA (ft ² and m ²) | | | | | | | | | |
|------------------|------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | WIDTH (IN & mm) | | | | | | | | | |
| | | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 |
| | | 305 | 610 | 914 | 1219 | 1524 | 1829 | 2134 | 2438 | 2743 | 3048 |
| HEIGHT (IN & mm) | 24 | 0.58 | 1.70 | 2.83 | 3.95 | 5.07 | 6.19 | 7.31 | 8.43 | 9.55 | 10.67 |
| | 610 | 0.05 | 0.16 | 0.26 | 0.37 | 0.47 | 0.58 | 0.68 | 0.78 | 0.89 | 0.99 |
| | 36 | 0.93 | 2.72 | 4.51 | 6.31 | 8.10 | 9.89 | 11.68 | 13.47 | 15.26 | 17.05 |
| | 914 | 0.09 | 0.25 | 0.42 | 0.59 | 0.75 | 0.92 | 1.09 | 1.25 | 1.42 | 1.59 |
| | 48 | 1.29 | 3.77 | 6.24 | 8.72 | 11.20 | 13.68 | 16.15 | 18.63 | 21.11 | 23.59 |
| | 1219 | 0.12 | 0.35 | 0.58 | 0.81 | 1.04 | 1.27 | 1.50 | 1.73 | 1.96 | 2.19 |
| | 60 | 1.63 | 4.77 | 7.91 | 11.05 | 14.18 | 17.32 | 20.46 | 23.59 | 26.73 | 29.87 |
| | 1524 | 0.15 | 0.44 | 0.74 | 1.03 | 1.32 | 1.61 | 1.90 | 2.19 | 2.48 | 2.78 |
| | 72 | 1.98 | 5.79 | 9.61 | 13.42 | 17.23 | 21.04 | 24.85 | 28.66 | 32.47 | 36.28 |
| | 1829 | 0.18 | 0.54 | 0.89 | 1.25 | 1.60 | 1.96 | 2.31 | 2.66 | 3.02 | 3.37 |
| | 84 | 2.33 | 6.82 | 11.30 | 15.79 | 20.27 | 24.75 | 29.24 | 33.72 | 38.21 | 42.69 |
| | 2134 | 0.22 | 0.63 | 1.05 | 1.47 | 1.88 | 2.30 | 2.72 | 3.13 | 3.55 | 3.97 |
| | 96 | 2.68 | 7.84 | 12.99 | 18.15 | 23.30 | 28.45 | 33.61 | 38.76 | 43.91 | 49.07 |
| 2438 | 0.25 | 0.73 | 1.21 | 1.69 | 2.17 | 2.64 | 3.12 | 3.60 | 4.08 | 4.56 | |
| 108 | 3.03 | 8.86 | 14.69 | 20.52 | 26.34 | 32.17 | 38.00 | 43.82 | 49.65 | 55.48 | |
| 2743 | 0.28 | 0.82 | 1.37 | 1.91 | 2.45 | 2.99 | 3.53 | 4.07 | 4.62 | 5.16 | |
| 120 | 3.38 | 9.88 | 16.39 | 22.89 | 29.39 | 35.89 | 42.39 | 48.89 | 55.39 | 61.89 | |
| 3048 | 0.31 | 0.92 | 1.52 | 2.13 | 2.73 | 3.34 | 3.94 | 4.54 | 5.15 | 5.75 | |



The AMCA Water Penetration Test provides a method for comparing various louver models and designs as to their efficiency in resisting the penetration of rainfall under specific laboratory test conditions. The point of zero water penetration is defined as that velocity where the water penetration curve projects through .01 oz of water penetration per sq. ft. of louver area. **The beginning point of water penetration for RSR-545VPF is 1250 fpm free area**

Test Data

- Data corrected to standard air density. Test Sample Size 48"x48". The AMCA Certified Ratings Seal does not apply for louvers with perforated sheet.

