Application:
The WDRV-6 is a 6” deep extruded aluminum vertical blade Wind Driven Rain stationary sightproof louver. The WDRV-6 is ideal for protecting air exhaust and intake openings in the exterior of a building against the occurrence of wind driven rain from storms. The WDRV-6 is intended to be used where water penetration performance is the most primary concern. The WDRV-6 is AMCA listed so you can select and apply with confidence.

Standard Construction:
**FRAME:** 6” (152) x .100 (2.5) extruded aluminum (6063-T6).
**BLADES:** .061 (1.6) extruded aluminum (6063-T6), vertical sightproof wind-driven rain blades, spaced approximately 1-1/2” (38).
**SCREEN:** Bird screen - 3/4” (19) x .050” (1.3) expanded, flattened aluminum with a removable frame on the interior of the louver. Screen adds approximately 1/2” (13) to depth of louver.
**FINISH:** Mill aluminum.
**MINIMUM SIZE:** 12”w (305) x 12”h (305).
**MAXIMUM ASSEMBLY SIZE:** Single Sections will not exceed 60”w (1524) x 96”h (2438). Larger sizes will require field assembly of smaller sections.
**DESIGN LOAD:** 20 psf (97.6 kg/m²) Consult for higher pressures.

All dimensions shown in inches, parentheses () indicate millimeters.

Optional Construction:
- **Optional Bird & Insect Screen** (see Louver Screen Supplemental Submittal)
- **Optional Finishes** (see Louver Finish Supplemental Submittal)
- **Blank Off Panel** (See Louver Blank Off-Panel Supplemental Submittal)
- **Sill Extension**
- **Flange Frame** (1-1/2” [38])
- **Filter Racks:**
  - 1” (25) Filter Rack
  - 2” (51) Filter Rack
- **Security Bars (rear):**
  - Single: Bar Spacing _____ inches
  - Double: Bar Spacing _____ inches
- **Heavy Duty Hinge:**
  - Left
  - Right
  - Top
  - Bottom

Note: Concealed (Architectural) mullions are not available for wind driven rain louvers.
Notes:
- Pressure Drop and Water Penetration Data applies to test unit only.
- Reported Pressure Drop is for Intake only.
- Performance data does not include the effects of bird screen.
- All Performance shown is at standard air density of 0.075 lb/ft³ (1.2 kg/m³).

NCA Manufacturing Inc. certifies that the Model WDRV-6 louver shown herein is certified 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 air performance ratings and wind driven rain ratings only.

Wind-Driven Performance

29.1 mph Wind Driven Tests are per AMCA 500L, Figure 5.11 Setup
Performance Based Test Louver 39-3/8"x39-3/8", 1m x 1m Core Size

<table>
<thead>
<tr>
<th>Velocity Through Cal. Plate</th>
<th>Core Velocity Through Louver</th>
<th>Specified Flow</th>
<th>Nominal Supply Flow</th>
<th>Corrected Penetrated Water Flow</th>
<th>Water Penetration Effectiveness</th>
<th>Water Penetration Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>rpm</td>
<td>(ft/min)</td>
<td>(gpm)</td>
<td>(gpm)</td>
<td>(gpm)</td>
<td>(%)</td>
<td></td>
</tr>
<tr>
<td>387</td>
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<td>35.06</td>
<td>0.0103</td>
<td>93.9</td>
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</tr>
</tbody>
</table>

50 mph Wind Driven Tests are per AMCA 500L, Figure 5.11 Setup
Performance Based Test Louver 39-3/8"x39-3/8", 1m x 1m Core Size

<table>
<thead>
<tr>
<th>Velocity Through Cal. Plate</th>
<th>Core Velocity Through Louver</th>
<th>Specified Flow</th>
<th>Nominal Supply Flow</th>
<th>Corrected Penetrated Water Flow</th>
<th>Water Penetration Effectiveness</th>
<th>Water Penetration Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>rpm</td>
<td>(ft/min)</td>
<td>(gpm)</td>
<td>(gpm)</td>
<td>(gpm)</td>
<td>(%)</td>
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<td>274</td>
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</tr>
</tbody>
</table>

The Discharge Loss Coefficient is Class 1. The Discharge Loss Coefficient is calculated per AMCA 511, Appendix C5 using Actual Flow divided by the Theoretical Flow.

September 2019

As part of our continuous improvement program, we reserve the right to make further improvements without notice.