STANDARD CONSTRUCTION

FRAME
5" (127) deep, 6063T6 extruded aluminum with .081" (2.1) nominal wall thickness.

BLADES
6063T6 extruded aluminum .063" (1.6) nominal wall thickness. Double drainable blades are sightproof and spaced approximately 2" (51) center to center.

SCREEN
3/8" x 0.40" (16 x 1) expanded flattened aluminum bird screen in removable frame. Screen adds approximately 1/2" (13) to louver depth.

FINISH
Mill.

MINIMUM SIZE
12"w x 12"h (305 x 305).

APPROXIMATE SHIPPING WEIGHT
7 lbs. per sq. ft. (34.2 kg/m²)

MAXIMUM FACTORY ASSEMBLY SIZE
Single sections shall not exceed 120" x 90"h (3048 x 2286) or 90"w x 120"h (2286 x 3048).
Louveres larger than the maximum single section size will require field assembly of smaller sections.

SUPPORTS
Louvers may be provided with rear mounted blade supports that increase overall louver depth depending on louver size, assembly configuration or windload.

Consult Reliable for additional information.

FEATURES
• Closely spaced horizontal blades minimize the penetration of wind-driven rain, reducing damage and additional operating expenses.
• Tested in the AMCA 500-L Wind-Driven Rain Penetration Test.
• Published performance ratings based on testing in accordance with AMCA Publication 511.
• 47% Free Area.
• Excellent pressure drop performance.
• AMCA 540 Listed (Enhanced Protection)

VARIATIONS
• Hinged frame.
• Front or rear security bars.
• Filter racks.
• Installation angles.
• A variety of bird and insect screens.
• Selection of finishes: prime coat, baked enamel (modified fluoropolymer), epoxy, Pearledize 50 & 70, Kynar, clear and color anodize. (Some variation in anodize color consistency is possible).

Dimensions in inches, parenthesis ( ) indicate millimeters.

Units furnished 1/4" (6) smaller than given opening dimensions.

<table>
<thead>
<tr>
<th>TAG</th>
<th>QTY.</th>
<th>SIZE</th>
<th>FRAME</th>
<th>VARIATIONS</th>
</tr>
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<table>
<thead>
<tr>
<th>PROJECT LOCATION</th>
<th>ARCH./ENGR. REPRESENTATIVE</th>
<th>CONTRACTOR DATE</th>
</tr>
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<tbody>
<tr>
<td></td>
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5DDWRGE 5/19-NEW  
ALL STATED SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION.  
Reliable May 2019
Test size 48" x 48" (1219 x 1219)
Beginning point of water penetration at .01 oz./sq. ft. is above 1250 fpm (381 m/min.)

Oz. Water/ft² (m²/ft²) of Free Area
15 min Test Period

Air Velocity in feet (meters) per minute through Free Area
(Data corrected to standard air density and AMCA figure tested to 5.5)

Ratings do not include the effect of a bird screen.

Reliable certifies that the SDDWRGE 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 air performance ratings, water penetration ratings and wind driven rain ratings only.
Free Area Guide shows free area in ft² and m² for various sizes of SDDWRGE. Width – Inches and Meters

WIND-DRIVEN RAIN PERFORMANCE

Test size is 1m x 1m (39" x 39") core area, 1.04m x 1.12m (41" x 44") nominal. Free Area of test louvers is 5.45 ft² (51m²).

29 mph (47 kph) wind & 3" (76) per hour rain conditions

<table>
<thead>
<tr>
<th>Core Velocity, fpm</th>
<th>Airflow cfm (m³/min)</th>
<th>Free Area Velocity, ft²/sec (m³/sec)</th>
<th>Effectiveness Ratio</th>
<th>Class</th>
<th>Discharge Loss Class Intake</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 (0)</td>
<td>0 (0)</td>
<td>0 (0)</td>
<td>A 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>98 (1.5)</td>
<td>1060 (30)</td>
<td>226 (1.1)</td>
<td>99.9%</td>
<td>A 2</td>
<td></td>
</tr>
<tr>
<td>197 (1.0)</td>
<td>2119 (60)</td>
<td>389 (2.0)</td>
<td>99.9%</td>
<td>A 2</td>
<td></td>
</tr>
<tr>
<td>287 (1.5)</td>
<td>3179 (90)</td>
<td>583 (3.0)</td>
<td>99.9%</td>
<td>A 2</td>
<td></td>
</tr>
<tr>
<td>381 (1.9)</td>
<td>4239 (120)</td>
<td>776 (4.0)</td>
<td>99.9%</td>
<td>A 2</td>
<td></td>
</tr>
<tr>
<td>476 (2.4)</td>
<td>5299 (150)</td>
<td>972 (4.9)</td>
<td>99.9%</td>
<td>A 2</td>
<td></td>
</tr>
<tr>
<td>586 (3.0)</td>
<td>6358 (180)</td>
<td>1167 (6.7)</td>
<td>99.9%</td>
<td>A 2</td>
<td></td>
</tr>
<tr>
<td>673 (3.4)</td>
<td>7418 (210)</td>
<td>1361 (6.9)</td>
<td>99.9%</td>
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<td></td>
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<tr>
<td>763 (3.9)</td>
<td>8478 (240)</td>
<td>1556 (7.9)</td>
<td>98.9%</td>
<td>B 2</td>
<td></td>
</tr>
<tr>
<td>882 (4.5)</td>
<td>9537 (270)</td>
<td>1750 (8.9)</td>
<td>97.3%</td>
<td>B 2</td>
<td></td>
</tr>
<tr>
<td>987 (5.0)</td>
<td>10597 (300)</td>
<td>1944 (9.9)</td>
<td>95.3%</td>
<td>B 2</td>
<td></td>
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</tbody>
</table>

50 mph (80 kph) wind & 8" (203) per hour rain conditions

<table>
<thead>
<tr>
<th>Core Velocity, fpm</th>
<th>Airflow cfm (m³/min)</th>
<th>Free Area Velocity, ft²/sec (m³/sec)</th>
<th>Effectiveness Ratio</th>
<th>Class</th>
<th>Discharge Loss Class Intake</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 (0)</td>
<td>0 (0)</td>
<td>0 (0)</td>
<td>A 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>106 (1.5)</td>
<td>1060 (30)</td>
<td>226 (1.1)</td>
<td>99.9%</td>
<td>A 2</td>
<td></td>
</tr>
<tr>
<td>184 (9.0)</td>
<td>2119 (60)</td>
<td>389 (2.0)</td>
<td>99.9%</td>
<td>A 2</td>
<td></td>
</tr>
<tr>
<td>282 (1.4)</td>
<td>3179 (90)</td>
<td>583 (3.0)</td>
<td>99.9%</td>
<td>A 2</td>
<td></td>
</tr>
<tr>
<td>408 (1.9)</td>
<td>4239 (120)</td>
<td>776 (4.0)</td>
<td>99.9%</td>
<td>A 2</td>
<td></td>
</tr>
<tr>
<td>495 (2.5)</td>
<td>5299 (150)</td>
<td>972 (4.9)</td>
<td>99.9%</td>
<td>B 2</td>
<td></td>
</tr>
<tr>
<td>641 (3.0)</td>
<td>6358 (180)</td>
<td>1167 (6.7)</td>
<td>99.9%</td>
<td>B 2</td>
<td></td>
</tr>
<tr>
<td>791 (4.0)</td>
<td>8478 (240)</td>
<td>1556 (7.9)</td>
<td>97.2%</td>
<td>B 2</td>
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<tr>
<td>982 (4.5)</td>
<td>9537 (270)</td>
<td>1750 (8.9)</td>
<td>95.1%</td>
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<td>982 (5.0)</td>
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<td>1944 (9.9)</td>
<td>92.3%</td>
<td>D 2</td>
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</tr>
</tbody>
</table>

Discharge Loss Classes:

- **Class:**
  - A: 0.4 and below
  - B: 0.2 to 0.999
  - C: 0.199 and below

- **Effectiveness Ratio:**
  - 1.0 and above
  - 0.9 to 1.0
  - Below 0.8

Intake Discharge Loss Class 2

Discharge Loss Coefficient is calculated by dividing a louvers' actual airflow rate by the theoretical airflow for the opening. It provides an indication of the louvers' airflow characteristics.

Notes:

1. Core area is the open area of the louver face (area less louver frames). Core Velocity is the airflow velocity through the Core Area of the louver (1m x 1m).

2. Free Area of test size is calculated per AMCA standard 500-L.

3. Wind Driven Rain Penetration Classes:
   - **Class Effectiveness:**
     - A: 1.0 to 0.99
     - B: 0.989 to 0.99
     - C: 0.99 to 0.98
     - Below 0.8

4. Intake Discharge Loss Class 2

5. The AMCA Wind Driven Rain Test is performed in a laboratory environment and incorporates controlled wind, water and system airflow effects. In actual field installations, storms may create conditions not considered by the AMCA test. Penthouse and similar enclosures are another condition that is not simulated by AMCA tests. These applications can create elevated water penetration rates through any louver. Because of these uncontrollable situations, it is recommended that provisions to manage water penetration through louvers be included in the building design.
TYPICAL INSTALLATION DETAILS

Masonry Wall

Metal Panel Wall

Wood Installation

Flange Mount

Options available at additional cost. Fasteners to wall are by others.