5DDWRG WIND-DRIVEN RAIN RESISTANT STATIONARY LOUVER EXTRUDED ALUMINUM

FRAME
5" (127) deep, 6063T5 extruded aluminum with .081" (2.1) nominal wall thickness.

BLADES
.062 (1.6) blades
6063T5 extruded aluminum .063" (1.6) nominal wall thickness. Double drainable blades are sightproof and spaced approximately 2" (51) center to center.

SCREEN
5/8" x .040" (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). Louvers 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.

FRAME CONSTRUCTION

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>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A*-WIDE</td>
<td>B*-HIGH</td>
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PROJECT
ARCH./ENGR.
REPRESENTATIVE
LOCATION
CONTRACTOR
DATE

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TYPICAL INSTALLATION DETAILS

Masonry Wall
- Masonry Wall
- Sealant (by others)
- Louver
- *Clip angles and fasteners
- Extended Sill with end Dams (optional)
- Masonry Wall Sealant (by others)

Flange Mount
- Wall
- Flange Frame
- Louver
- Fasteners (by others)

Metal Panel Wall
- Metal Wall
- Drip Cap (optional)
- Sealant (by others)
- Louver
- Clip angles and fasteners (optional)
- Extended Sill with end Dams (optional)

Wood Installation
- Wood
- Sealant (by others)
- Louver
- Clip angles and fasteners (optional)
- Extended Sill with end Dams (optional)
- Sheathing
Reliable Products certifies that the louver 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.
### 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).

<table>
<thead>
<tr>
<th>Core Area, fpm (m/s)</th>
<th>Airflow cfm (m³/h)</th>
<th>Free Area, fpm² (m²/sec.)</th>
<th>Effectiveness</th>
<th>Class</th>
<th>Discharge Loss Class Intake</th>
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### Notes
1. Core area is the open area of the louver face (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 A: 1 to 99
   - Class B: 0.99 to 0.95
   - Class C: 0.94 to 0.80
   - Class D: Below 0.8

4. Intake Discharge Loss Class 2

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

### Free Area Guide

Free Area Guide shows free area in ft² and m² for various sizes of 5DDWRG. Width – Inches and Meters

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### Discharge Loss Classes:
- Class 1: 0.4 and above
- Class 2: 0.3 to 0.299
- Class 3: 0.2 to 0.299
- Class 4: Below 0.299

(The higher the coefficient, the less resistance to airflow.)

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 installations where wind can pass through multiple louvers in an enclosure is 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.

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