**STANDARD CONSTRUCTION**

**FRAME**
Single frame design produced from 6063T6 extruded aluminum with .080" (2.1) nominal wall thickness. Frame depth is 7" (178).

**BLADES**
Sight-proof double blade design produced from 6063T6 extruded aluminum with .080" (2.1) nominal wall thickness. Blades are 7" (178) deep, positioned at 37 1/2° angle and spaced at approximately 4 3/4" (121) center to center. Interior blades are 3" (76) deep and positioned at approximately 23/8" (60) center to center alternating with full depth blades.

**SCREEN**
5/8" x .040" (16 x 1) expanded flattened aluminum birdscreen in removable frame. Screen adds approximately 1/2" (13) to louver depth.

**EXTENDED SILL**
.081" (2.1) formed aluminum with end dams. Not provided with front flange frame.

**FINISH**
Mill.

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

**APPROXIMATE SHIPPING WEIGHT**
8 lbs. per sq. ft. (39 kg/m²)

**MAXIMUM FACTORY ASSEMBLY SIZE**
Shall be 60 sq. ft. (3.5m²) persection, not to exceed 120" x 72"h (3048 x 1829) or 72"w x 120"h (1829 x 3048).
Louversons translates to the maximum single factory assembly size will require field assembly of smaller sections.

**SUPPORTS**
Louversons 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**
- Two-piece horizontal alternating blade design. Provides protection from wind-driven rain penetration, reducing damage and additional operating expenses.
- 7" (102) deep exterior blades are continuous style without visible mullions.
- May be ordered without interior blades and frames at areas that are inactive or do not need wind-driven rain protection.
- Tested in the AMCA 500-L Wind-Driven Rain Penetration Test.
- Published performance ratings based on testing in accordance with AMCA Publication 500L.
- 45% Free Area.
- Aluminum construction for low maintenance and high resistance to corrosion.

**VARIATIONS**
- Insulated or sheet blank-off panels
- Front or rear security bars.
- Filter racks.
- Installation angles.
- A variety of bird and insect screens.

Finishes:
- Prime coat.
- Baked enamel (modified fluoropolymer).
- Epoxy
- Pearledize 50 & 70.
- Kynar.
- Clear and color anodize.

Consult Reliable for other special requirements.

---

**TAG** | **QTY.** | **SIZE** | **FRAME** | **VARIATIONS**
---|---|---|---|---
---|---|---|---|---

**STANDARD CONSTRUCTION**

**INTEGRAL FLANGE**

---

Dimensions in inches, parenthesis ( ) indicate millimeters.

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

---

Spec 7375WR-511/New

ALL STATED SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION.

© Reliable May 2011
1. Reference separate installation instruction sheets for installation details. It is the responsibility of the installing contractor to properly install the louvers per the appropriate detail.

2. Louvers wider than the maximum single section width will be shipped in multiple sections and will require field assembly. Field assembly is not by Reliable.
**WATER PENETRATION GRAPH**

Test size 48" x 48" (1219 x 1219)

Beginning point of water penetration at .01 oz./sq. ft. is 815 fpm (248 m/min.)

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 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 louver is 5.35 ft² (.50m²).

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

<table>
<thead>
<tr>
<th>Core Velocity, fpm (m/s)</th>
<th>Airflow cfm (m/min)</th>
<th>Free Area Velocity, fpm (m/sec.)</th>
<th>Effectiveness Ratio</th>
<th>Class₂</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 (0)</td>
<td>0 (0)</td>
<td>0 (0)</td>
<td>99.9%</td>
<td>A</td>
</tr>
<tr>
<td>0 (0)</td>
<td>0 (0)</td>
<td>0 (0)</td>
<td>99.9%</td>
<td>A</td>
</tr>
<tr>
<td>198 (1.0)</td>
<td>2129 (603)</td>
<td>398 (2.0)</td>
<td>99.8%</td>
<td>A</td>
</tr>
<tr>
<td>284 (1.4)</td>
<td>3060 (86.7)</td>
<td>572 (2.9)</td>
<td>99.7%</td>
<td>A</td>
</tr>
<tr>
<td>370 (1.9)</td>
<td>3988 (113.0)</td>
<td>745 (3.8)</td>
<td>99.3%</td>
<td>A</td>
</tr>
<tr>
<td>468 (2.4)</td>
<td>5042 (142.8)</td>
<td>942 (4.8)</td>
<td>97.5%</td>
<td>B</td>
</tr>
<tr>
<td>605 (3.1)</td>
<td>6513 (184.4)</td>
<td>1217 (6.2)</td>
<td>79.2%</td>
<td>D</td>
</tr>
<tr>
<td>681 (3.5)</td>
<td>7335 (207.7)</td>
<td>1371 (7.0)</td>
<td>45.4%</td>
<td>D</td>
</tr>
</tbody>
</table>

**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
   - Below 0.8

4. Intake Discharge Loss Class 3

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.

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 applications 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 louvers. Because of these uncontrolled situations, it is recommended that provisions to manage water penetration through louvers be included in the building design.

### Free Area Guide

Free Area Guide shows free area in ft² and m² for various sizes of 7375WR. Width – Inches and Meters

<table>
<thead>
<tr>
<th>Width</th>
<th>Free Area (ft²)</th>
<th>Free Area (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>1371</td>
<td>7.0</td>
</tr>
<tr>
<td>18</td>
<td>2277</td>
<td>21.7</td>
</tr>
<tr>
<td>24</td>
<td>3180</td>
<td>30.0</td>
</tr>
<tr>
<td>30</td>
<td>4087</td>
<td>41.7</td>
</tr>
<tr>
<td>36</td>
<td>5000</td>
<td>50.4</td>
</tr>
<tr>
<td>42</td>
<td>5917</td>
<td>57.6</td>
</tr>
<tr>
<td>48</td>
<td>6839</td>
<td>67.3</td>
</tr>
<tr>
<td>54</td>
<td>7750</td>
<td>76.4</td>
</tr>
<tr>
<td>60</td>
<td>8661</td>
<td>86.1</td>
</tr>
<tr>
<td>66</td>
<td>9572</td>
<td>95.6</td>
</tr>
<tr>
<td>72</td>
<td>10483</td>
<td>104.3</td>
</tr>
<tr>
<td>78</td>
<td>11394</td>
<td>113.5</td>
</tr>
<tr>
<td>84</td>
<td>12305</td>
<td>122.6</td>
</tr>
<tr>
<td>90</td>
<td>13217</td>
<td>131.8</td>
</tr>
</tbody>
</table>

#### Discharge Loss Classes:

<table>
<thead>
<tr>
<th>Class</th>
<th>Discharge Loss Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.4 and above</td>
</tr>
<tr>
<td>2</td>
<td>0.3 to 0.399</td>
</tr>
<tr>
<td>3</td>
<td>0.2 to 0.299</td>
</tr>
<tr>
<td>4</td>
<td>0.199 and below</td>
</tr>
</tbody>
</table>

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