EME520DD WIND-DRIVEN RAIN RESISTANT STATIONARY LOUVER
EXTRUDED ALUMINUM

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
1/8” 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 Ruskin 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.

• Aluminum construction for low maintenance and high resistance to corrosion.

VARIATIONS

• Extended sill.

• 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).

Consult Ruskin for other special requirements.

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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<tbody>
<tr>
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EME520DD-616/Replaces EME520DD-316

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Ruskin Company 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.

**WATER PENETRATION GRAPH**

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.)

**PRESSURE DROP**

Pressure Drop testing performed on 48" x 48" (1219 x 1219) unit.

Ratings do not include the effect of a bird screen.

(Data corrected to standard air density and AMCA figure tested to 5.5)
### FREE AREA GUIDE

Free Area Guide shows free area in ft² and m² for various sizes of EME520DD. Width – Inches and Meters

<table>
<thead>
<tr>
<th>Test size</th>
<th>Free Area</th>
<th>Discharge Loss Class</th>
<th>Intake</th>
<th>Airflow cfm</th>
<th>Core Area</th>
<th>Airflow cfm</th>
<th>Core Area</th>
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<th>Airflow cfm</th>
<th>Core Area</th>
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<tbody>
<tr>
<td>50 mph (80 kph) wind &amp; 8° (20) per hour rain conditions</td>
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**DRAIN WIND 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 louvre is 5.45 ft² (0.51m²).

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

### NOTES

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

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

3. Wind Driven Rain Penetration Classes:

   **Class** | **Effectiveness** | **Intake** | **Airflow cfm** | **Free Area** | **Discharge Loss Class** | **Airflow cfm** | **Free Area** | **Discharge Loss Class** | **Airflow cfm** | **Free Area** | **Discharge Loss Class** |
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### Discharge Loss Classes:

- **Class** | **Discharge Loss Coefficient**
- 1 | 0.4 above
- 2 | 0.3 to 0.399
- 3 | 0.2 to 0.299
- 4 | 0.199 and below

(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 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 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

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<tr>
<th>Masonry Wall</th>
<th>Metal Panel Wall</th>
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<tr>
<td>Masonry Wall</td>
<td>Metal Wall</td>
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<tr>
<td>Sealant (by others)</td>
<td>Drip Cap (optional)</td>
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<tr>
<td>Louver</td>
<td>Sealant (by others, *louver)</td>
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<tr>
<td><em>Clip angles and fasteners</em></td>
<td><em>Clip angles and fasteners (optional)</em></td>
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<tr>
<td>Extended Sill with end Dams (optional)</td>
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<tr>
<th>Wood Installation</th>
<th>Flange Mount</th>
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<tr>
<td>Wood</td>
<td>Wall</td>
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<tr>
<td>Sealant (by others)</td>
<td>Flange Frame</td>
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<tr>
<td>Louver</td>
<td>Louver</td>
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<tr>
<td><em>Clip angles and fasteners (optional)</em></td>
<td>Fasteners (by others)</td>
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<tr>
<td>Extended Sill with end Dams (optional)</td>
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<td>Sheathing</td>
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Options available at additional cost. Fasteners to wall are by others.

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