EME520DDE WIND-DRIVEN RAIN RESISTANT STATIONARY LOUVER
EXTRUDED ALUMINUM

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)
• AMCA550 Listed for High Velocity Wind Driven Rain with Damper.

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

INTEGRAL FLANGE

Dimensions in inches, parenthesis ( ) indicate millimeters.

*Units furnished 1/4" (6) smaller than given opening dimensions.
AMCA550 DAMPER OPTIONS

CONTROL DAMPER

CD40 (Thin Line Control Damper)
(The CD40 combines the lowest leakage attainable-6cfm/sq.ft. at 4”w.g. with thin line, 4” overall depth when the damper is completely open.)
- Damper Frame and Blade Depth 4”
- Max Single Section 60”x72”
- Opposed Blade
- Mill Finish
- Factory-Installed, pneumatic and electric actuators
- SP100 Switch Package
- Jack shafted or Extended Shaft option
- Concealed Linkage

CD50
(The CD50 is a low Leak, extruded aluminum damper designed with air foil blades for higher velocities and pressure HVAC systems. It meets the leakage requirements of the International energy Conservation Code by leaking less than 3cfm.sq.ft. at 1” of static pressure and is AMCA licensed as a Class 1A damper)
- Air Leakage AMCA Class 1A
- Damper Frame Depth is 5” and Blade width is 6”
- Max Single Section 60”x72”
- Opposed Blade
- Mill Finish
- Factory-Installed, pneumatic and electric actuators
- SP100 Switch Package
- Jack shafted or Extended Shaft option
- Concealed Linkage

SMOKE DAMPER

SD60 (UL555S Leakage Class 1 Damper)
(The SD60 is an ultra-low leakage rated smoke damper used in ducts that penetrate smoke rated barriers.)
- Air Leakage Class 1
- Damper Frame Depth is 5” and Blade width is 6”
- Max Single Section 48”x72”
- Opposed Blade
- Mill Finish
- Factory-Installed, pneumatic and electric actuators
- SP100 Switch Package
- Jack shafted or Extended Shaft option
- Concealed Linkage

SUGGESTED SPECIFICATION

Furnish and install louvers as hereinafter specified where shown on plans or as described in schedules. Louvers shall possess stationary horizontal double drainable blades designed to prevent the penetration of wind driven rain, and met the performance criteria established by AMCA and tested to TAS 203 (Cyclic Wind Loading), as called out in AMCA540.
Louver blades shall be contained within a 5” (127) frame. Extended sill shall be provided to capture and drain water to exterior of building. Louver components (heads, jambs, sill and blades) shall be factory assembled by the louver manufacturer.
Louver sizes too large for shipping shall be built up by the contractor from factory assembled louver sections to provide overall sizes required. Louver design shall limit single span between visible mullions to 10” (3048) wide.

Louvers shall be Ruskin Model EMES20DDE construction as follows:
- **MATERIAL**
  - Frame: .081” (2.1) aluminum channel.
  - Blades: .081” (2.1) nominal wall thickness.
  - Screen: ½” mesh x .040” (16 x 1) expanded flattened aluminum bird screen in removable frame. Drainable blades are positioned at 37½°.
  - Finish: Select finish specification from Ruskin/Valspar Finishes Brochure.

Published louver performance data bearing the AMCA Certified Ratings Seal for Air Performance and Water Penetration must be submitted for approval prior to fabrication and must demonstrate pressure drop equal to or less than the Ruskin model specified.

**STRUCTURAL DESIGN**

Integral structural supports shall be designed and furnished by the louver manufacturer to carry a wind load of not less than ±130 psf (6.22 kPa).
Ruskin Company certifies that EME520DDE 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.

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.
3. Wind Driven Rain Penetration Classes:

<table>
<thead>
<tr>
<th>Class Effectiveness</th>
<th>Free Area Intake</th>
<th>Discharge Loss Class</th>
<th>Discharge Loss Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.90</td>
<td>2</td>
<td>0.90</td>
</tr>
<tr>
<td>B</td>
<td>0.98</td>
<td>2</td>
<td>0.98</td>
</tr>
<tr>
<td>C</td>
<td>0.94</td>
<td>2</td>
<td>0.94</td>
</tr>
<tr>
<td>D</td>
<td>Below 0.8</td>
<td>2</td>
<td>0.90</td>
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Discharge Loss Classes:

<table>
<thead>
<tr>
<th>Class</th>
<th>Discharge Loss Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.4 and above</td>
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<tr>
<td>B</td>
<td>0.3 to 0.399</td>
</tr>
<tr>
<td>C</td>
<td>0.2 to 0.299</td>
</tr>
<tr>
<td>D</td>
<td>Below 0.8</td>
</tr>
</tbody>
</table>

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.
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 Ruskin.