The EME520MD is a Miami Dade approved 5” deep mechanically fastened, extruded aluminum, double drainable, horizontal, stationary louver designed to protect air intake and exhaust openings in exterior walls in hurricane conditions. This louver offers exceptional protection against wind-driven rain under the most severe conditions. It’s designed with a drainable gutter system that channels water from the blades to downspouts in the jambs, where water is exhausted out of the front of the louver.

### STANDARD CONSTRUCTION

**Frame**
- Box frame, 5” (127) deep, 6063T6 extruded aluminum with .081” (2.1) nominal wall thickness. Downspouts and caulking provided.
- Universal Installation Frame: Same material and gauges as above with flange.

**Blades**
- 6063T6 extruded aluminum .060” (1.5) nominal wall thickness.
- Double drainable blades are sightproof.

**Screen**
- 5/8” x .040” (16 x 1) expanded, flattened aluminum bird screen in removable frame.

**Finish**
- Mill

**Approximate Shipping Weight**
- 10 lbs. per sq. ft. (49 kg/m²)

**Minimum Size**
- 12”w x 12”h (305 x 305)

**Maximum Size**
- 144”w x 112”h (3658 X 2845)

**Maximum Factory Assembly Size**
- **Single Section:** (Varies) 90”s x 112”h (2286 x 3658) or 144”w x 90”h (3638 x 2286)
- **Field Assembly:** Unlimited width x 144”h (3658). Multiple section louvers will be shipped in single sections and must be joined together in the field by the installer. Section joint splice hardware is provided. **Sections may not be stacked in height without a horizontal structural member supplied by others.** Openings taller than the maximum louver height will need to be divided into multiple openings with suitable structural members. Structural members are not designed or provided by Ruskin®.

**Installation**
The EME520MD must be installed per the appropriate Installation Detail. Reference the appropriate separate Installation Instruction Sheet.

### FEATURES

- Various Frame construction for use in cast-inplace concrete, grout filled CMU, Wood and steel installations.
- Maximum windload +/-120PSF.
- Horizontal blades minimize the penetration of wind-driven rain, reducing damage and additional operating expenses.
- 47% Free Area.
- Published performance ratings tested in accordance with AMCA Publication 511.
- Beginning point of water penetration at .01 oz. /sq. ft. is above 1250 fpm (381 m/min).
- Aluminum construction for low maintenance and high resistance to corrosion.
- AMCA540 Listed for Basic Protection.
- AMCA550 – High Velocity Wind Driven Rain with Damper.
- Miami Dade NOA Approval 17-1214.18, expires 2/23/21
- Florida Product Approved FL 21829.5
- Texas Department of Insurance (TDI) Listed LVR-10

### VARIATIONS

- Universal Flange Frame construction when fasteners penetrating the wall are not utilized.
- Extended sill.
- Front or rear security bars.
- Filter racks.
- Universal sleeve.
- Blank off panels.
- Integral flange.
- Drip cap.
- A variety of bird and insect screens.
- Please provide rough opening dimensions for “A” and “B” dimensions. unless ordered as actual size, the louver will be provided 1/2” (12) smaller than “A” and “B” dimensions provided.
- Optional finishes available at additional cost: Prime coat, 50% PVDF (modified fluoropolymer), Epoxy, Pearlized, 70% PVDF, Clear and Anodized finishes. (Some variation in anodize color consistency is possible).

Consult Ruskin for other special requirements.

**NOTE:**
1. Dimensions in inches, parenthesis ( ) indicate millimeters.
2. Units furnished 1/4” (6) smaller than given opening dimensions.
PERFORMANCE DATA

Ruskin certifies that the EME520MD shown herein is approved to bear the AMCA Listing Label. The ratings shown are based on tests and procedures performed in accordance with AMCA Publications and comply with the requirements of the AMCA Listing Label Program.

The AMCA Listing Label applies to wind Born Debris Impact Resistant and High Velocity Wind Driven Rain Resistant Louvers (with optional CD40, CD50 or SD60 damper in the closed position)

FREE AREA GUIDE

EME520MD Free Area Guide shows free area in ft² and m² for various sizes of EME520MD.

<table>
<thead>
<tr>
<th>Height</th>
<th>Width - Inches and Meters</th>
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</thead>
<tbody>
<tr>
<td>12</td>
<td>0.30 0.45 0.60 0.75 1.00 1.25 1.40 1.55 1.70 1.85 2.00 2.15 2.30 2.45 2.60 2.75 2.90 3.05 3.20 3.60</td>
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<tr>
<td>18</td>
<td>0.28 0.45 0.60 0.75 0.90 1.05 1.20 1.35 1.50 1.65 1.80 1.95 2.10 2.25 2.40 2.55 2.70 2.85 3.00</td>
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<tr>
<td>24</td>
<td>0.49 0.79 1.09 1.39 1.69 1.99 2.30 2.60 2.90 3.20 3.50 3.80 4.10 4.40 4.70 5.00 5.30 5.60</td>
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<tr>
<td>30</td>
<td>0.90 1.47 2.03 2.60 3.16 3.72 4.29 4.85 5.41 5.97 6.53 7.10 7.67 8.23 8.80 9.36 9.92 10.49</td>
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<tr>
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<tr>
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</tr>
<tr>
<td>90</td>
<td>3.34 6.53 7.51 9.59 11.68 13.76 15.84 17.93 20.10 22.29 24.48 26.66 28.81 31.00 33.22 35.45 37.68 39.92</td>
</tr>
<tr>
<td>96</td>
<td>3.76 8.10 9.75 11.95 14.10 16.26 18.42 20.58 22.75 24.94 27.12 29.30 31.48 33.66 35.84 38.03 40.21 42.40</td>
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<tr>
<td>102</td>
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<td>108</td>
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</tr>
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</table>

Spec EME520MD Combo 0720/
Replaces EME520MD-318

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

Ruskin® July 2020

Page 2
AMCA Standard 500 provides a reasonable basis for testing and rating louvers. Testing to AMCA 500-L is performed under a certain set of laboratory conditions. This does not guarantee that other conditions will not occur in the actual environment where louvers must operate.

The louver system should be designed with a reasonable safety factor for louver performance. To ensure protection from water carryover design with a performance level somewhat below maximum desired pressure drop and .01 oz./sq. ft. of water penetration.

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.

Test size 48” wide X 48” high (1219 X 1219).

Beginning point of water penetration at .01 oz. /sq. ft. is above 1250 fpm (381 m/min).
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 5.45 ft² (.51m²).

<table>
<thead>
<tr>
<th>Wind Velocity mph (kph)</th>
<th>Rain Fall Rate In./hr. (mm/hr.)</th>
<th>Core Velocity, fpm (m/s)</th>
<th>Airflow cfm (m³/min)</th>
<th>Free Area Velocity, fpm (m/sec.)</th>
<th>Effectiveness Ratio</th>
<th>Class, 4</th>
<th>Discharge Loss Class, Intake</th>
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</thead>
<tbody>
<tr>
<td>29 (46.4)</td>
<td>3 (76)</td>
<td>586 (3.0)</td>
<td>6310 (179)</td>
<td>1158 (5.9)</td>
<td>99.0%</td>
<td>A</td>
<td>2</td>
</tr>
<tr>
<td>50 (80.0)</td>
<td>8 (203)</td>
<td>293 (1.5)</td>
<td>3152 (89)</td>
<td>3152 (2.9)</td>
<td>99.0%</td>
<td>A</td>
<td>2</td>
</tr>
</tbody>
</table>

NOTE:
1. Core area is the open area of the louver face (face area less lover 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: 1.0 to .99
   - Class B: 0.989 to 0.95
   - Class C: 0.949 to 0.80
   - Class D: Below 0.8

4. Discharge Loss Coefficient is calculated by dividing a louvers' actual airflow rate vs. a theoretical airflow for the opening. It provides an indication of the louvers' airflow characteristics.
   - Class 1: 0.4 and above
   - Class 2: 0.3 to 0.399
   - Class 3: 0.2 to 0.299
   - Class 4: 0.199 and below
   (The higher the coefficient, the less resistance to airflow.)

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.)
- 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"x 72"
- 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”x 72”
- Opposed Blade
- Mill Finish
- Factory-Installed, pneumatic and electric actuators
- SP100 Switch Package
- Jack shafted or Extended Shaft option
- Concealed Linkage
INSTALLATION INSTRUCTION

GENERAL NOTES:
1. Reference separate Installation Instruction Sheet for the proper installation method. Miami-Dade and Florida product approvals are contingent upon proper installation. It is the installing contractor’s responsibility to ensure that the louvers are installed properly.
2. Some orders may require special submittal and/or shop drawings provided by Ruskin. Reference these drawings for additional installation information.
3. Continuous angles and fasteners are supplied and are shipped loose.
4. Louvers are provided with steel channel supports to be installed behind the visible mullions.
5. Louvers wider than the maximum single section width will be shipped in multiple sections and will require field assembly.
SUGGESTED SPECIFICATION

Furnish and install louvers as hereinafter specified where shown on plans or as described in schedules. Double drainable stationary louver meeting the performance criteria established by the Florida Building Code and Miami-Dade County standards TAS 201 (Large Missile Impact), TAS 202 (Uniform Static Air Pressure) and TAS 203 (Cyclic Wind Loading). Combination louver damper are listed by AMCA.

Louvers shall be manufactured in an ISO 9001 certified factory.

Louvers shall be Ruskin Model EME520MD extruded 6063T6 aluminum alloy construction as follows:

**Material**

Frame: 0.081” (2.1) wall thickness, caulking surfaces provided.

Blades: 0.060” (1.5) wall thickness.

Extended Sill: 0.081” (2.1) wall thickness, with upturned side panels to prevent water leakage.

Screen: 5/8” x 0.040” (16 x 1) expanded, flattened aluminum bird screen in removable frame.

Finish: Select finish specification from Ruskin Finishes Brochure.

**LINKS TO IMPORTANT DOCUMENTS**

<table>
<thead>
<tr>
<th>Document Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paint Finishes and Color Guide</td>
</tr>
<tr>
<td>Limited Warranty Document</td>
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Grandview, MO 64030
Website: www.ruskin.com
Phone: (816) 761-7476

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