MODEL SED-4  HIGH PERFORMANCE FIXED LOUVER

STANDARD CONSTRUCTION:
Frame: .081 Extruded Aluminum, 4.16" Deep
Blade: .081 Extruded Aluminum on approximately 2" centers
Birdscreen: .75" x .051" Flattened Aluminum in removable frame. Screen is mounted as standard on inside (rear) as looking from exterior of building.
Finish: Mill Aluminum (Std.)
Minimum Size: 12 x 12
Maximum Single Section: 120"w x 84"h or 84"w x 120"h
Note: Drainable blade louvers should be limited to 10' maximum section widths (no more than 10' between vertical downsputs) to enable the drainable design to function effectively.

OPTIONS:
- Flanged Frame (1.50" std.), (1" std for shapes R_)
- Custom Flange (1", 2", or 3"), (1.5", 2", or 3" for shapes R_)
- Extended Sill
- Glazing Adapter (.50" or .75")
- Insect Screen (Other Screens Available, See Screen Page)
- Filter Racks (no screen)
- Security Bars
- Hinged Sub Frame
- Welded Construction (Wind Load +/- 50 psf)
- Blank-off, Alum., non-insulated, no screen, non-removable
- Blank-off, Alum., non-insulated, with bird screen or insect screen
- Blank-off, Alum., insulated double wall, with bird screen, removable
- Blank-off, Alum., insulated double wall, no screen, non-removable

AVAILABLE FINISHES:
- Powder Polyester TGIC (2 coats) baked on at 410°F, 2.5 to 3.5 mils Meets AAMA-2603 Standards
- Powder Super durable polyester (2 coats) baked on at 410°F, 2.5 to 3.5 mils Meets AAMA-2604-05 Standards
- Acrylic baked enamel (ACRA-BOND® ULTRA) by AkzoNobel baked on at 350°F, 0.8 to 1.2 mils dry Meets AAMA-2603 Standards
- Kynar® (ALUMA®STAR®) 2 coats by AkzoNobel baked on at 450°F, 1.2 to 1.6 mils dry Meets AAMA-2604-05 Standards
- Kynar 500® or HYLAR® 5000 70% TRINAR® (2 coats) by AkzoNobel baked on at 450°F, 1.2 to 1.6 mils dry, Meets AAMA-2605-05 Standards
- Kynar 500® or HYLAR® 5000 (70% Tri-Escot II) (2 coats) by AkzoNobel, a superior finish to other metallic or anodized finishes. A blend of mica, ceramic, and inorganic pigments creates subtle yet dazzling design that goes beyond metallic color without the requirement of a clear coat. 14 standard colors - custom colors available. Baked on at 415°F, 1.4 to 1.8 mils dry, meets AAMA 2605-05.
- Clear Anodize 204 R-1 Class II (AA-C22A31)(0.4 to 0.7 mil)
- Clear Anodize 215 R-1 Class I (AA-C22A41)(>0.7 mil)
- Integral Color Anodize (AA-C22A42)(>0.7 mil)
  - Clear coat available for all above finishes.
  - Hylar® 5000 is a registered trademark of Sovlay Solexis, Inc.
  - Kynar® 500 is a registered trademark of Arkema.
  - ALUMA®STAR® 50 and TRINAR® are registered trademarks of AkzoNobel
  - ACRA-BOND® ULTRA is a registered trademark of AkzoNobel

Due to continuing research, United Enertech reserves the right to change specifications without notice.

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MODEL SED-4 (Drainable Blade w/ Jamb Gutters & Downspouts)

### SED-4 Free Area in Sq. Ft.

<table>
<thead>
<tr>
<th>Louver Height</th>
<th>Width - Inches</th>
<th>SED-4 Free Area in Sq. Ft.</th>
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<tr>
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<tr>
<td>114</td>
<td>120</td>
<td>1.37</td>
</tr>
</tbody>
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### Air Flow Resistance

<table>
<thead>
<tr>
<th>Free Area Velocity (Ft/min)</th>
<th>Width - Inches</th>
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<tbody>
<tr>
<td>12</td>
<td>18</td>
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<td>114</td>
<td>120</td>
</tr>
</tbody>
</table>

### Water Penetration

- **Velocity throughput of water penetration is 1088 FPM**

### SED-4 Specifications

- **Furnish and install louvers as hereinafter specified where shown on plans or as described in schedules.** Louver shall be stationary type with horizontal rain resistant style blades positioned on approximately 2° centers within 4.0° deep frame. Louver frame and blade materials to be .081" thick 3003-T5 extruded aluminum. Sections up to maximum of 60" x 96" shall withstand wind loading of 30 lbs/sq.ft. (110 mph wind equivalent). Consult factory for welded construction and higher wind speeds. Louver shall meet the performance requirements established by the AMCA 500-89 Test Procedure and shall be licensed to bear the AMCA certified rating seal for water penetration, air performance, and wind driven rain. Louver shall have a minimum free area of 5.57 sq. ft. based on the standard 40" x 46" test specimen. Louver shall have a maximum static pressure drop of .20" (exhaust) & .20" (intake) water gage based on 1000 FPM free area intake velocity. Louver shall carry a minimum Class B water penetration classification based on a ventilation core of 679 FPM at a rainfall rate of .5" per hour and a 20 mph simulated wind velocity. Louver shall also carry a minimum Class B water penetration classification based on a ventilation core velocity of 578 FPM at a rainfall rate of .8" per hour and a 50 mph simulated wind velocity.

### AMCA-500-L Test Conditions

- **Core Velocity (fpm)**
- **Airflow cfm (m³/s)**
- **Free Area Velocity (fpm)**
- **Effectiveness Ratio**
- **AMCA Effectiveness Class**

- **202.4 mm/h (8 in/h) Rainfall & 22 m/s (50 mph) Wind Velocity**

### Wind Driven Rain Performance - AMCA 500-L

- **Test size 1m x 1m (39" x 39")**
- **415x415x415 Nominal (.065 x .047)**

### Wind Driven Rain Penetration Classes

- **Class**
- **Discharge Loss Coefficient**
- **Discharge Loss Intake**

### United Enertech certifications

- AMCA-500-L certification

**November 2015**