Application and Design
ESD-403 is a weather louver designed to protect air intake and exhaust openings in building exterior walls. Design incorporates a drainable head member and stationary horizontal blades to channel water to the jambs which guides the water through vertical downspouts for escape at the sill. The ESD-403 is an extremely efficient louver with AMCA LICENSED PERFORMANCE DATA enabling designers to select and apply with confidence.

Standard Construction
Frame ........ Heavy gauge extruded 6063-T5 aluminum, 4 in. x 0.081 in. nominal wall thickness
Blades ......... Drainable design, heavy gauge extruded 6063-T5 aluminum, 0.081 in. nominal wall thickness, positioned at 37° and 45° angles on approximately 4 in. centers
Construction . Mechanically fastened
Birdscreen .. 3/4 in. x 0.051 in. flattened expanded aluminum in removable frame, inside mount (rear)
Finish ........ Mill

Minimum Size . 12 in. W x 12 in. H

Maximum Single Section Size . . 120 in. W or 120 in. H (limited to 70 ft. sq.)

Options (at additional cost)
• A variety of bird and insect screens
• Blank off panel
• Clip angles
• Extended sill
• Filter rack
• Flanged frame
• Glazing adaptor
• Hinged frame
• Security bars
• Welded construction
• 0.125 nominal wall thickness
• A variety of architectural finishes including:
  Clear anodize
  Integral color anodize
  Baked enamel paint
  Kynar paint

*Width and height dimensions furnished approximately ¼ inch under size.
**Performance Data**

**ESD-403**

Stationary Louver Drainable Blade

Extruded Aluminum

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**Free Area Chart (Sq. ft.)**

<table>
<thead>
<tr>
<th>Height in Inches</th>
<th>Width in Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>18</td>
</tr>
<tr>
<td>24</td>
<td>30</td>
</tr>
<tr>
<td>36</td>
<td>42</td>
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<td>48</td>
<td>54</td>
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<td>60</td>
<td>66</td>
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<td>72</td>
<td>78</td>
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<tr>
<td>84</td>
<td>90</td>
</tr>
<tr>
<td>96</td>
<td>102</td>
</tr>
<tr>
<td>114</td>
<td>120</td>
</tr>
</tbody>
</table>

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**Free Air Velocity**

Model ESD-403 resistance to airflow (pressure drop) varies depending on louver application (air intake or air exhaust). Free area velocities (shown) are higher than average depending on louver application (air intake or air exhaust).

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**Airflow Resistance** (Standard Air - .075 lb/ft³)

Test size 48 in. x 48 in. Test duration of 15 min.

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**Water Penetration** (Standard Air - .075 lb/ft³)

Test size 48 in. x 48 in. Test duration of 15 min.

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The AMCA Water Penetration Test provides a method for comparing various louver models and designs as to their efficiency in resisting the penetration of rainfall under specific laboratory test conditions. The beginning point of water penetration is defined as that velocity where the water penetration curve projects through .01 oz. of water (penetration) per sq. ft. of louver free area. *The beginning point of water penetration for Model ESD-403 is 1007 fpm free area velocity.* These performance ratings do not guarantee a louver to be weatherproof or stormproof and should be used in combination with other factors including good engineering judgement in selecting louvers.
Maximum single section size for model ESD-403 is 120 in. W x 84 in. H or 84 in. W x 120 in. H (70 sq. ft). Larger openings require field assembly of multiple louver sections to make up the overall opening size. Individual louver sections are designed to withstand a 25 PSF wind load (please consult Greenheck if the louvers must withstand higher wind-loads). Structural reinforcing members may be required to adequately support and install multiple louver sections within a large opening. Structural reinforcing members along with any associated installation hardware is not provided by Greenheck unless indicated otherwise by Greenheck. Options and accessories including, but not limited to, screens, filter racks, louver doors, and blank off panels are not subject to structural analysis unless indicated otherwise by Greenheck. Additional information on louver installation may be found in AMCA Publication #501, Louver Application Manual.

Minimum Single Section Size
12 in. W x 12 in. H

Maximum Single Section Size
70 ft. sq.
ESD-403
Stationary Louver Drainable Blade
Extruded Aluminum

Noncompressible dead load shim, sealant and backer rod not by Greenheck

Optional extended sill

Optional flange

Sealant and backer rod not by Greenheck

Stack detail

Head detail

Sill detail

Jamb detail

Mullion detail

Support detail

Greenheck
## Finishes

<table>
<thead>
<tr>
<th>Finish Type</th>
<th>Description/Application</th>
<th>Color Selection</th>
<th>Standard Warranty (Aluminum)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AAMA 2605</strong></td>
<td>100% Fluoropolymer (FEVE)</td>
<td></td>
<td>10 Years (20 Years Optional)</td>
</tr>
<tr>
<td></td>
<td>2-Coat 70% Kynar® (PVDF)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-Coat 70% Kynar® (PVDF)</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>4-Coat 70% Kynar® (PVDF)</td>
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<tr>
<td><strong>AAMA 2604</strong></td>
<td>50% Kynar® / Acroflur®</td>
<td></td>
<td>5 Years</td>
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<tr>
<td><strong>AAMA 2603</strong></td>
<td>Baked Enamel</td>
<td></td>
<td>1 Year</td>
</tr>
<tr>
<td><strong>AA-M10C22A42</strong></td>
<td>Integral Color Anodize</td>
<td>“Two-step” anodizing is produced by following the normal anodizing step with a second, colorfast process.</td>
<td>Light, Medium, Dark or Extra Dark Bronze; Champagne; Black</td>
</tr>
<tr>
<td><strong>AA-M10C22A41</strong></td>
<td>Clear Anodize 215 R-1</td>
<td>Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack.</td>
<td>Clear</td>
</tr>
<tr>
<td><strong>AA-M10C22A31</strong></td>
<td>Clear Anodize 204</td>
<td>Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack.</td>
<td>Clear</td>
</tr>
<tr>
<td><strong>Prime Coat</strong></td>
<td></td>
<td>Louvers or architectural products shall be cleaned, pre-treated and receive a prime coat finish suitable for field painting.</td>
<td>n/a</td>
</tr>
<tr>
<td><strong>Mill</strong></td>
<td></td>
<td>Materials may be supplied in natural aluminum or galvanized steel finish when normal weathering is acceptable and there is no concern for color or color change.</td>
<td>n/a</td>
</tr>
</tbody>
</table>

Finishes meet or exceed AAMA 2605, AAMA 2604, and AAMA 2603 requirements. Please consult www.greenheck.com for complete information on standard and extended paint warranties. Paint finish warranties are not applicable to steel products.