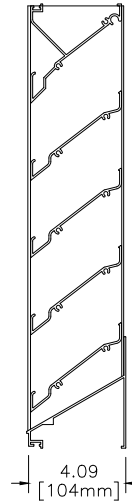


## Standard Construction

<b>Mounting</b>	Continuous aluminum angles along the head, sill, and jambs
<b>Frame</b>	Heavy gauge extruded 6063-T5 aluminum, 4 in. (102 mm) x 0.081 in. (2 mm) nominal wall thickness
<b>Blades</b>	Drainable design, heavy gauge extruded 6063-T5 aluminum, 0.081 in. (2 mm) nominal wall thickness, positioned 37.5° on approximately 3-1/4 in. (83 mm) centers
<b>Louver Depth</b>	4 in. (102 mm)
<b>Construction</b>	Mechanically fastened
<b>Finish</b>	Mill
<b>Minimum Size</b>	12 in. W x 9 in. H (305 mm W x 229 mm H)
<b>Maximum Single Section Size</b>	84 in. W x 144 in. H or 120 in. W x 84 in. H (2134 mm W x 3658 mm H) or (3048 mm W x 2134 mm H)
<b>Wind Load</b>	Up to +/- 200 PSF (9.6 kPa)

\*AMCA 540 when selected as an option  
Florida Product Approval No.: FL6876, FL35289  
UL Classified: R25119



## Performance Ratings



Greenheck Fan Corporation certifies that the ESD-435X louvers shown herein are 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 Water Penetration, Air Performance, and Wind-Driven Rain ratings.

Louvers were tested in accordance with AMCA Standard 500-L.



**IMPACT RESISTANT LOUVER**  
Basic Protection Level D

See [www.AMCA.org](http://www.AMCA.org) for all certified or listed products

This label does not signify AMCA airflow performance certification.

Greenheck Fan Corporation certifies that the ESD-435X louver 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 Impact Resistant louvers rated for Basic Protection with a minimum blade span of less than 12 in. (305 mm) and a maximum unsupported blade span of 46 in. (1168 mm).

### Performance of 48 in. x 48 in. (1219 mm x 1219 mm) Louver

<b>Free Area</b>	
Area	8.92 sq. ft. (0.829 sq. m)
Percent	55.8%
<b>Performance at Beginning Point of Water Penetration</b>	
Free Area Velocity	989 fpm (5.024 m/s)
Max Intake Volume	8,822 cfm (4.163 m <sup>3</sup> /s)
<b>Performance at 6,000 CFM (2.832 m<sup>3</sup>/s) Intake</b>	
Pressure Drop	0.073 in. wg (0.018 kPa)

## Options and Accessories

- [Bird Screen](#)
- [Blank Off Panels](#)
- [Extended Sill](#)
- [Filter Rack/Filter](#)
- [Flange Frame](#)
- Impact Qualified
- [Insect Screen](#)
- [Security Bars](#)
- [Variety of Architectural Finishes](#)
- Welded Construction
- 0.125 in. (3 mm) Nominal Frame and/or Blade Thickness

## Standard Details

[ESD-435X Standard Details](#)

[ESD-435X \(#475578 IOM\)](#)

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.



## Airflow Resistance

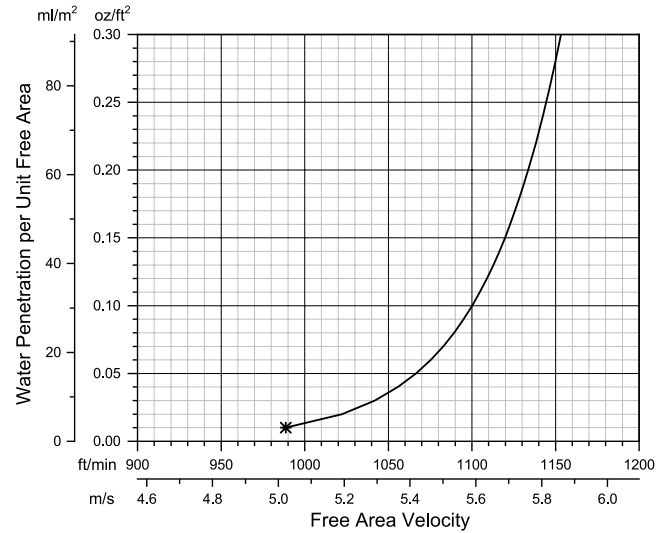
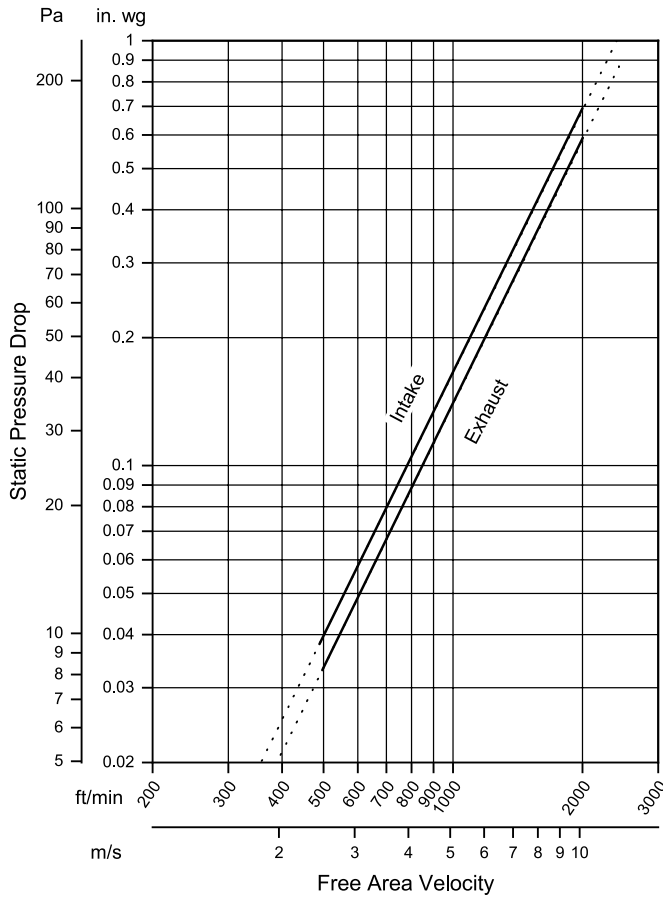
Standard Air - 0.075 lb/ft<sup>3</sup> (1.2 kg/m<sup>3</sup>)

Test size 48 in. x 48 in. (1219 mm x 1219 mm)

## Water Penetration

Standard Air - 0.075 lb/ft<sup>3</sup> (1.2 kg/m<sup>3</sup>)

Test size 48 in. x 48 in. (1219 mm x 1219 mm) Test duration of 15 min.



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 0.01 oz. (3 g) of water (penetration) per sq. ft. (m<sup>2</sup>) of louver free area. \*The beginning point of water penetration for Model ESD-435X is 989 fpm (5.024 m/s) 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.

Model ESD-435X resistance to airflow (pressure drop) varies depending on louver application (air intake or air exhaust). Free area velocities (shown) are higher than average velocity through the overall louver size. See louver selection information. (Test Figure 5.5-6.5)