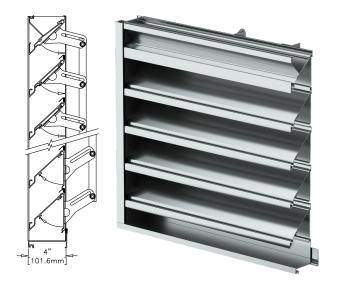


Combination Louver/Damper, Drainable Blade **Extruded Aluminum**

Standard Construction

Frame	Heavy gauge extruded 6063-T5 aluminum, 4.1 in. (105 mm) x 0.081 in. (2 mm) nominal wall thickness				
Blades	Drainable design, heavy gauge extruded 6063-T5 aluminum, 0.081 in. (2 mm) nominal wall thickness, positioned 45° on approximately 4 in. (102 mm) centers				
Seals	Dual-durometer extruded vinyl blade seals, compressible stainless steel jamb seals				
Temperature Restrictions	(-20° F) - (+180° F) (-29° C) - (+82° C)				
Linkage	Exposed on-blade linkage				
Louver Depth	h 4.1 in. (105 mm)				
Construction	Mechanically fastened				
Finish	Mill				
Minimum Size	12 in. W x 12 in. H (305 mm W x 305 mm H)				
Maximum Single Section Size	120 in. W x 120 in. H (3048 mm W x 3048 mm H Limited to 70 ft. sq. (6.5 sq. m)				
Wind Load	25 PSF (1.2 kPa)				



Performance Ratings





Greenheck Fan Corporation certifies that the ECD-401 louvers shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and licensed to bear the AMCA Seal. The 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 and Air Performance ratings.

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

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

Free Area

Area 7.60 sq. ft. (0.706 sq. m)

Percent 47.5%

Performance at Beginning Point of Water Penetration

Free Area Velocity 1018 fpm (5.171 m/s) Max Intake Volume 7737 cfm (3.651 m³/s)

Performance at 6,000 CFM (2.832 m³/s) Intake

Pressure Drop 0.106 in. wg (0.026 kPa)

Document Links

Louver Finishes & Colors

Louver Product Selection Guide

Louver Products Catalog

Louver Warranty Statement

Options and Accessories

- Actuators
- Bird Screen
- Blank-Off Panels
- **Extended Sill**
- Filter Rack/Filter
- Flange Frame
- Glazing Frame
- Insect Screen
- **Mounting Angles**
- Security Bars
- Variety of Architectural Finishes
- 0.125 in. (3mm) nominal wall thickness

Product Details

ECD-401 Leakage Chart

ECD-401 Standard Details

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.





Free Area Chart
Free Area Chart shows free area in square feet and square meters.

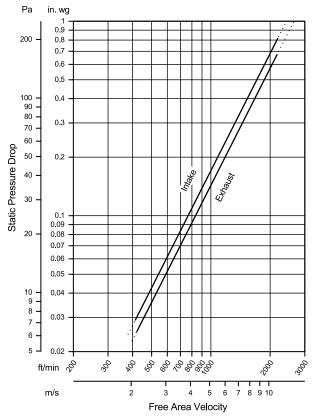
Louver	Louver Width in Inches (Meters)										
Height Inches	12	24	36	48	60	72	84	96	108	120	
(Meters)	0.30	0.61	0.91	1.22	1.52	1.83	2.13	2.44	2.74	3.05	
12	0.29	0.68	1.06	1.44	1.82	2.20	2.59	2.97	3.35	3.73	
0.30	0.03	0.06	0.10	0.13	0.17	0.20	0.24	0.28	0.31	0.35	
24	0.67	1.54	2.41	3.28	4.15	5.03	5.90	6.77	7.64	8.51	
0.61	0.06	0.14	0.22	0.30	0.39	0.47	0.55	0.63	0.71	0.79	
36	1.08	2.49	3.90	5.30	6.71	8.12	9.52	10.93	12.33	13.74	
0.91	0.10	0.23	0.36	0.49	0.62	0.75	0.88	1.02	1.15	1.28	
48	1.55	3.57	5.58	7.60	9.62	11.63	13.65	15.66	17.68	19.69	
1.22	0.14	0.33	0.52	0.71	0.89	1.08	1.27	1.45	1.64	1.83	
60	1.93	4.44	6.94	9.44	11.95	14.45	16.96	19.46	21.97	24.47	
1.52	0.18	0.41	0.64	0.88	1.11	1.34	1.58	1.81	2.04	2.27	
72	2.34	5.38	8.42	11.46	14.50	17.54	20.58	23.62	26.66	29.70	
1.83	0.22	0.50	0.78	1.06	1.35	1.63	1.91	2.19	2.48	2.76	
84	2.81	6.46	10.11	13.76	17.41	21.06	24.71	28.36	32.01	35.66	
2.13	0.26	0.60	0.94	1.28	1.62	1.96	2.30	2.63	2.97	3.31	
96	3.19	7.33	11.47	15.60	19.74	23.88	28.02				
2.44	0.30	0.68	1.07	1.45	1.83	2.22	2.60				
108	3.60	8.28	12.95	17.62	22.30	26.97	31.64				
2.74	0.33	0.77	1.20	1.64	2.07	2.51	2.94				
120	4.07	9.36	14.64	19.92	25.20	30.49	35.77				
3.05	0.38	0.87	1.36	1.85	2.34	2.83	3.32				

ECD-401 Adjustable Louver, Drainable Blade Extruded Aluminum

Airflow Resistance

Standard Air - 0.075 lb/ft3 (1.2 kg/m3)

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

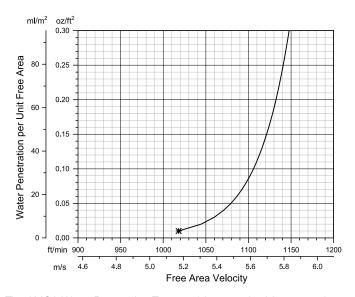


Model ECD-401 resistance to airflow (pressure drop) varies depending on louver application (air intake or air exhaust). Free area velocities (shown) are higher than average velocity through the overall louver size. See louver selection information. (Test Figure 5.5-6.5)

Water Penetration

Standard Air - 0.075 lb/ft3 (1.2 kg/m3)

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. (m²) of louver free area. *The beginning point of water penetration for Model ECD-401 is 1018 fpm (5.171 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.

