

# DE435M

## 4" Drainable Louver



### APPLICATION

DE435M extruded louvers feature extruded 6063-T5 aluminum blades positioned at a 35° angle. This design optimizes air performance and water penetration ratings with vertical and horizontal gutter systems that capture droplets, preventing water from entering the airstream.

### STANDARD CONSTRUCTION

<b>Material</b>	6063-T5 Extruded Aluminum
<b>Frame</b>	4" (102 mm) Depth x 0.081" (2 mm) Thick Channel Frame
<b>Blades</b>	0.081" Thick Drainable Style 35° Blade Angles 3.50" (89 mm) Blade Spacing
<b>Construction</b>	Mechanically Fastened
<b>Finish</b>	Mill, Painted, Anodized
<b>Minimum Size</b>	8.25" x 7.25" (210 mm x 184 mm)
<b>Maximum Size</b>	Single Section: 60" x 120" (1524 mm x 3048 mm) 120" x 60" (3048 mm x 1524 mm) Multi-Section: Unlimited
<b>Wind Load</b>	30 lbs/sq.ft (1.4 kPa)
<b>Weight</b>	Approx 3.3 lbs/sq.ft (16.1 kg/sq.m)

### PERFORMANCE RATING

For a Louver Size of 48" x 48" (1219 mm x 1219 mm)

<b>Free Area</b>	9.04 sq.ft (0.84 sq.m)
<b>Free Area %</b>	56.50%
<b>Air Volume @ 0.15 in.w.g. is 9736 CFM (4595 L/s)</b>	
<b>Water Penetration Point</b>	966 fpm (4.91 m/s) Free Area Velocity

[Price Louvers Performance Calculator](#)



Price Industries Limited certifies that the DE435M is licensed to bear the AMCA Seal. The ratings shown as 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 and water penetration ratings.

### STANDARD OPTIONS

(Leave boxes blank if not required)

#### SIZING

[Louver Sizing Manual](#)

- Nominal  Actual

#### MOUNTING

[Mounting Methods](#)

- Channel  Flanged (1.5")

#### LOOSE SILL

[Loose Sill](#)

- 4" (102 mm)  6" (152 mm)  
 8" (203 mm)  10" (254 mm)  
 12" (305 mm)

#### SCREEN PANELS

- Bird Screen Without Frame  
 Bird Screen With Frame  
 Insect Screen  
 Combined Frame Bird/Insect Screen  
 Separate Frame Bird/Insect Screen

#### FINISH

[Louvers Finishes Guide](#)

**Louver**

- Mill  Factory Cleaned Aluminum  
 Prime Coat  
 Baked Enamel  
 High Performance Fluoropolymer (70% PVDF)  
 70% PVDF with clear top coat  
 Clear Anodized  Colour Anodized

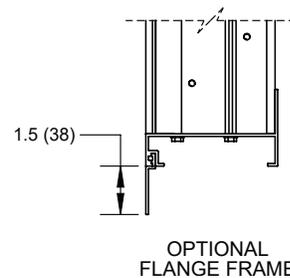
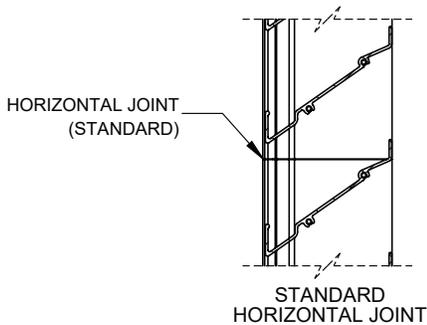
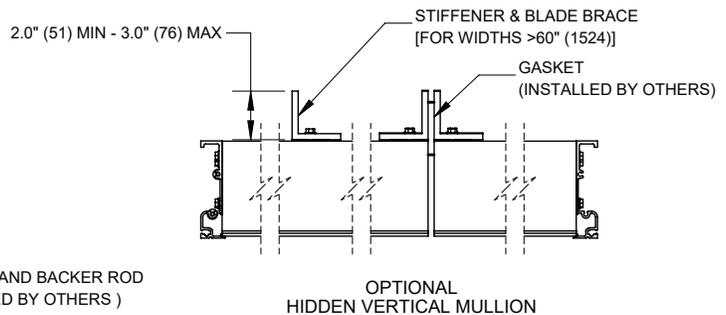
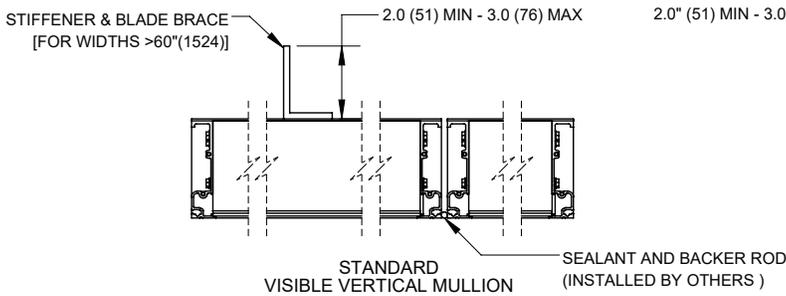
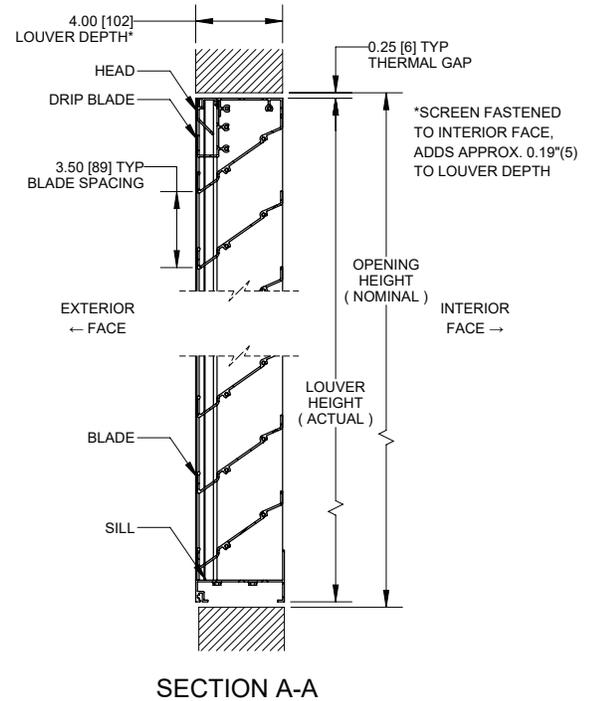
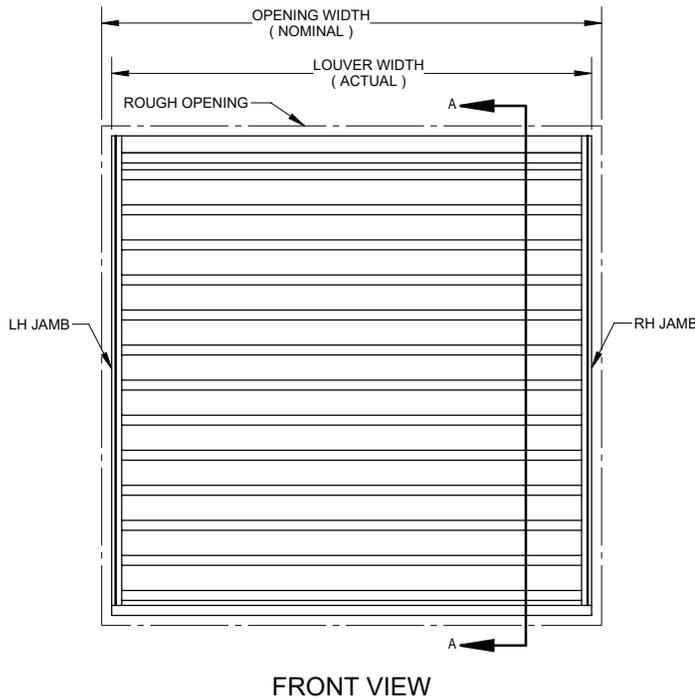
**Screen**

- Mill  L172 (Black 2 sides)  
 F2 (Same as louver)

# DE435M

## 4" Drainable Louver

### STANDARD DETAILS



The design, material supply and installation of structural reinforcement elements required to adequately support multiple-section assemblies and assemblies with other special features are not provided by Price. Fastening to structural support is recommended at minimum at all corners of each louver section with provisions for thermal expansion. Unless specifically indicated, the following are NOT included by Price: structural steel, installation hardware (including but not limited to: anchors, clips, continuous angles, shims, fasteners, inserts, backer rod and sealant), flashing and trim pieces, bituminous paints for dissimilar metals, stamped and sealed structural calculations/drawings, seismic calculations, field measuring or installation.

# DE435M

## 4" Drainable Louver

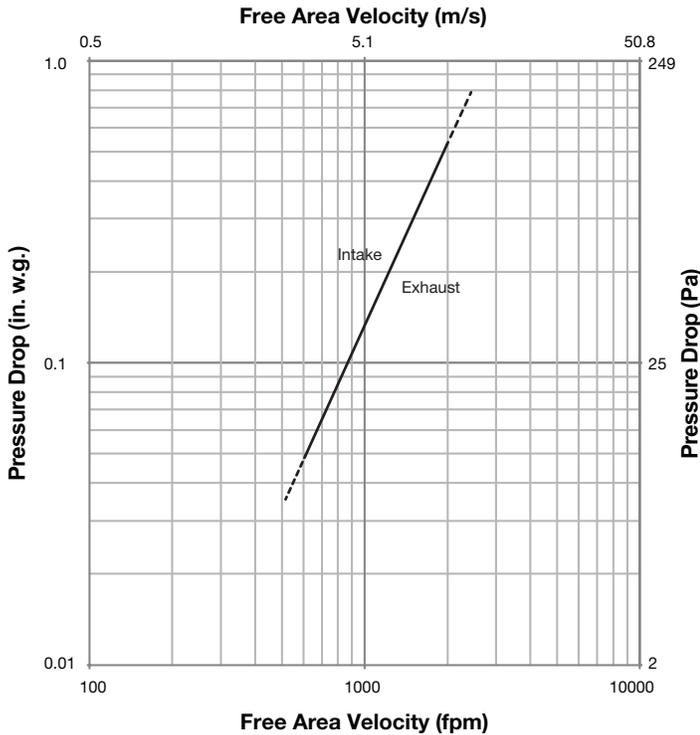
### PERFORMANCE DATA

#### AIR PERFORMANCE

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

Louver Test Size 48" x 48" (1219 mm x 1219 mm)

(AMCA 500-L Test Figure 5.5)



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Air performance is established from measurements of the pressure differential across the louver at various free area velocities under laboratory conditions. Ratings shown do not include the effect of bird screens or other accessories.

Free area velocities (shown) are greater in magnitude than overall face area velocities for a given volumetric flow rate.

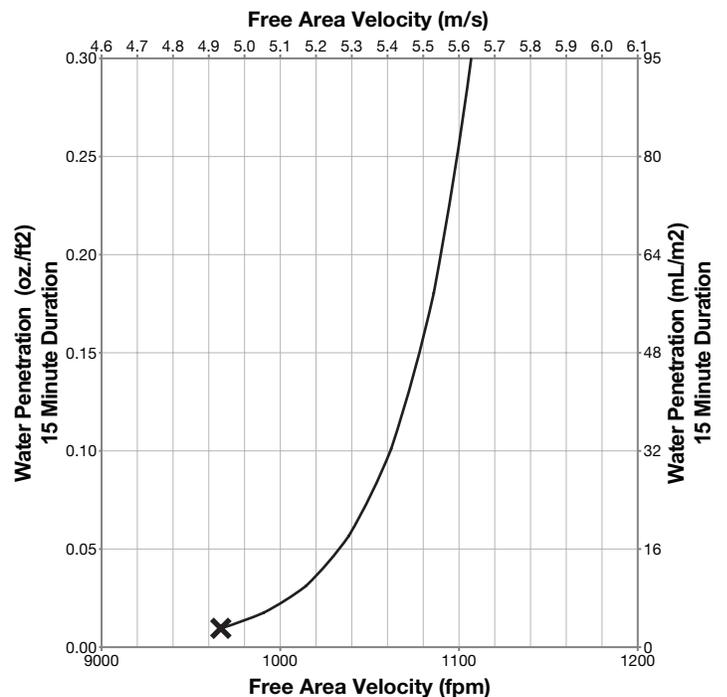
#### WATER PENETRATION PERFORMANCE

Louver Test Size 48" x 48" (1220 mm x 1220 mm)

966 FPM (4.91 m/s) Beginning of Water Penetration

The beginning point of water penetration is defined by AMCA Standard 500-L as the free area velocity at which 0.01 ounces of water per sq. ft. of free area is measured to pass through a test sample louver during a 15 minute test. This point for the DE435M is 966 fpm (4.91 m/s) free area velocity.

The beginning point of water penetration is established under controlled laboratory conditions and is intended for the comparison of different louver models and designs. This rating does not guarantee any louver to be weatherproof. Intake louvers should be selected with a reasonable margin of safety below the beginning point of water penetration to avoid significant water penetration under severe storm conditions.



# DE435M

## 4" Drainable Louver

### FREE AREA – ft<sup>2</sup>

Section Height (in.)	Section Width (in.)																		
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.37	0.60	0.83	1.05	1.28	1.51	1.73	1.96	2.19	2.34	2.56	2.79	3.02	3.25	3.47	3.70	3.93	4.15	4.38
18	0.62	1.00	1.38	1.76	2.13	2.51	2.89	3.27	3.64	3.89	4.27	4.65	5.03	5.40	5.78	6.16	6.54	6.91	7.29
24	0.88	1.40	1.93	2.46	2.99	3.52	4.04	4.57	5.10	5.45	5.98	6.51	7.04	7.56	8.09	8.62	9.15	9.68	10.20
30	1.14	1.83	2.52	3.21	3.90	4.59	5.28	5.97	6.66	7.12	7.81	8.49	9.18	9.87	10.56	11.25	11.94	12.63	13.32
36	1.46	2.34	3.22	4.10	4.98	5.86	6.73	7.61	8.49	9.08	9.96	10.84	11.72	12.60	13.47	14.35	15.23	16.11	16.99
42	1.71	2.74	3.77	4.80	5.83	6.86	7.89	8.92	9.95	10.64	11.67	12.70	13.73	14.75	15.78	16.81	17.84	18.87	19.90
48	1.96	3.14	4.32	5.50	6.68	7.86	9.04	10.23	11.41	12.19	13.37	14.55	15.73	16.91	18.09	19.28	20.46	21.64	22.82
54	2.30	3.68	5.06	6.44	7.82	9.20	10.58	11.96	13.34	14.26	15.64	17.02	18.41	19.79	21.17	22.55	23.93	25.31	26.69
60	2.55	4.08	5.61	7.14	8.67	10.20	11.74	13.27	14.80	15.82	17.35	18.88	20.41	21.95	23.48	25.01	26.54	28.07	29.60
66	2.80	4.48	6.16	7.84	9.53	11.21	12.89	14.57	16.26										
72	3.07	4.91	6.75	8.60	10.44	12.28	14.13	15.97	17.81										
78	3.38	5.42	7.45	9.48	11.52	13.55	15.58	17.62	19.65										
84	3.63	5.82	8.00	10.19	12.37	14.55	16.74	18.92	21.10										
90	3.89	6.22	8.55	10.89	13.22	15.56	17.89	20.23	22.56										
96	4.22	6.75	9.29	11.82	14.36	16.89	19.43	21.96	24.50										
102	4.47	7.16	9.84	12.53	15.21	17.90	20.58	23.27	25.95										
108	4.72	7.56	10.39	13.23	16.07	18.90	21.74	24.57	27.41										
114	4.99	7.99	10.98	13.98	16.98	19.98	22.97	25.97	28.97										
120	5.31	8.49	11.68	14.87	18.06	21.24	24.43	27.62	30.80										

### FREE AREA – m<sup>2</sup>

Section Height (mm)	Section Width (mm)																		
	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000
300	0.03	0.06	0.08	0.10	0.12	0.14	0.16	0.18	0.20	0.22	0.24	0.26	0.28	0.30	0.32	0.34	0.37	0.39	0.41
450	0.06	0.09	0.13	0.16	0.20	0.23	0.27	0.30	0.34	0.36	0.40	0.43	0.47	0.50	0.54	0.57	0.61	0.64	0.68
600	0.08	0.13	0.18	0.23	0.28	0.33	0.38	0.42	0.47	0.51	0.56	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95
750	0.11	0.17	0.23	0.30	0.36	0.43	0.49	0.55	0.62	0.66	0.73	0.79	0.85	0.92	0.98	1.05	1.11	1.17	1.24
900	0.14	0.22	0.30	0.38	0.46	0.54	0.63	0.71	0.79	0.84	0.93	1.01	1.09	1.17	1.25	1.33	1.41	1.50	1.58
1050	0.16	0.25	0.35	0.45	0.54	0.64	0.73	0.83	0.92	0.99	1.08	1.18	1.28	1.37	1.47	1.56	1.66	1.75	1.85
1200	0.18	0.29	0.40	0.51	0.62	0.73	0.84	0.95	1.06	1.13	1.24	1.35	1.46	1.57	1.68	1.79	1.90	2.01	2.12
1350	0.21	0.34	0.47	0.60	0.73	0.85	0.98	1.11	1.24	1.32	1.45	1.58	1.71	1.84	1.97	2.09	2.22	2.35	2.48
1500	0.24	0.38	0.52	0.66	0.81	0.95	1.09	1.23	1.37	1.47	1.61	1.75	1.90	2.04	2.18	2.32	2.47	2.61	2.75
1650	0.26	0.42	0.57	0.73	0.89	1.04	1.20	1.35	1.51										
1800	0.29	0.46	0.63	0.80	0.97	1.14	1.31	1.48	1.65										
1950	0.31	0.50	0.69	0.88	1.07	1.26	1.45	1.64	1.83										
2100	0.34	0.54	0.74	0.95	1.15	1.35	1.56	1.76	1.96										
2250	0.36	0.58	0.79	1.01	1.23	1.45	1.66	1.88	2.10										
2400	0.39	0.63	0.86	1.10	1.33	1.57	1.81	2.04	2.28										
2550	0.42	0.67	0.91	1.16	1.41	1.66	1.91	2.16	2.41										
2700	0.44	0.70	0.97	1.23	1.49	1.76	2.02	2.28	2.55										
2850	0.46	0.74	1.02	1.30	1.58	1.86	2.13	2.41	2.69										
3000	0.49	0.79	1.09	1.38	1.68	1.97	2.27	2.57	2.86										

Free area is the sum of space on a louver through which air can pass (i.e. between blades, frames and other airflow obstructions). The standard comparison size for Louver Free Area is 48" wide x 48" high. The ratio of free area to face area is typically expressed as a percentage and varies with louver sizes. All values reflect section sizes – louvers can be ordered at any larger size and will be provided in multiple sections wide and/or high.