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EME5625D WIND DRIVEN RAIN RESISTANT STATIONARY LOUVER

STANDARD CONSTRUCTION

FRAME

5" (127) deep, 6063T6 extruded aluminum with .095" (2.4) nominal wall thickness.

BLADES

6063T6 extruded aluminum .063" (1.6) nominal wall thickness. Blades are mounted vertically and spaced approximately 1 1/2" (38) center to center.

SCREEN

1/2" x .063" (13 x 1.6) square mesh aluminum bird screen in removable frame. Screen adds approximately 1/2" (13) to louver depth.

EXTENDED SILL

.081" (2.1) formed aluminum.

FINISH

Mill.

MINIMUM SIZE

12"w x 12"h (305 x 305).

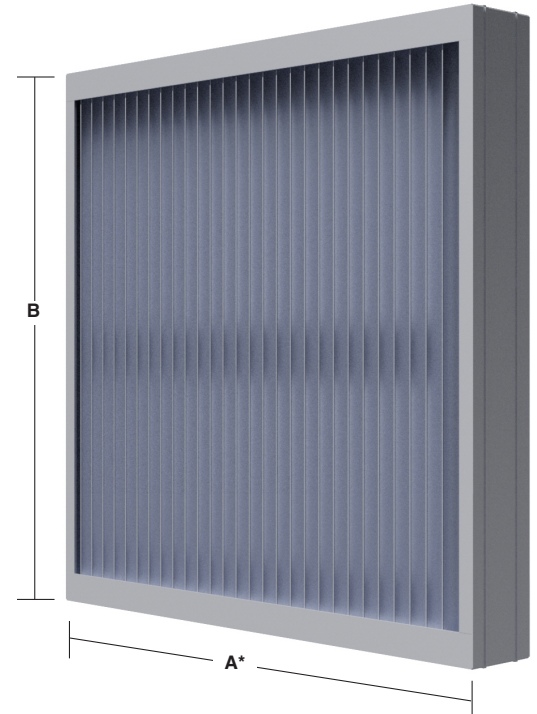
APPROXIMATE SHIPPING WEIGHT

10 lbs. per sq. ft. (49 kg/m²)

MAXIMUM SINGLE SECTION SIZE

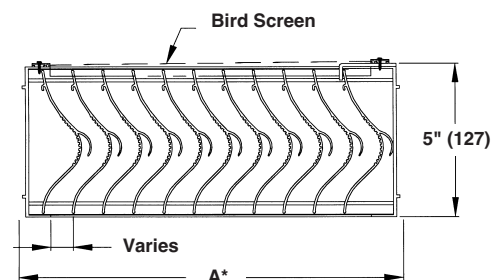
Shall be 48" x 120" (1219 x 3048). Lifting lugs provided on louvers 48" x 60" (1219 x 1524) and larger.

Louvers larger than the maximum factory assembly size will require field assembly of smaller sections.



FEATURES

- TAS100A
- Beginning of water penetration 753fav
- AMCA 550 and AMCA 540 (Enhanced) Listed Louver
- 38% free area.
- Closely spaced vertical blades prevent the penetration of wind-driven rain, reducing damage and additional operating expenses.
- Published performance ratings based on testing in accordance with AMCA Publication 511. Excellent pressure drop performance.
- All welded construction.
- Aluminum construction for low maintenance and high resistance to corrosion.
- Visible mullion construction. Hidden mullions and continuous blade construction are not available.
- Shapes available.



VARIATIONS

- Filter racks.
- A variety of bird and insect screens.
- Selection of finishes: prime coat, 50% PVDF (modified fluoropolymer), epoxy, Pearledize, 70% PVDF clear and color anodize. (Some variation in anodize color consistency is possible.)

Consult Ruskin for other special requirements.

Please reference our website
www.ruskin.com for up to date
LEED® information.



Ruskin certifies that the EME5625D 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 Wind Borne Debris Impact Resistant Louvers.

The AMCA Listing Label applies to High Velocity Rain Resistant Louver Louvers.

Dimensions in inches, parenthesis () indicate millimeters.

*Units furnished 1/4" (6) smaller than given opening dimensions.

WIND-DRIVEN RAIN PERFORMANCE – AMCA 500-L WIND-DRIVEN RAIN TEST

Test size is 1m x 1m (39" x 39") core area, 1.05m x 1.08m (41 1/4" x 42 5/16") nominal. Free Area of test louver is 4.86 ft² (.45m²).

Wind Velocity mph (kph)	Rain Fall Rate In./hr. (mm/hr.)	Core Velocity ₁ fpm (m/s)	Airflow cfm (m³/min)	Free Area Velocity ₂ fpm (m/sec.)	Effectiveness Ratio	Class _{3, 4}	Discharge Loss Class ₅ Intake
50 (80.5)	8 (203)	980 (5)	13,684 (388)	2,280 (12)	100%	A	2

NOTES

- Core area is the open area of the louver face (face area less louver frames).
Core Velocity is the airflow velocity through the Core Area of the louver (1m x 1m). 5 m/s is the maximum core velocity utilized in this test.
- Free Area of test size is calculated per AMCA standard 500-L.
- Wind Driven Rain Penetration Classes:
Class Effectiveness
A 1 to .99
B 0.989 to 0.95
C 0.949 to 0.80
D Below 0.8
- The EME5625D provides class A performance at all velocities up to and including 5 m/s core velocity.
- Discharge Loss Coefficient is calculated by dividing a louvers' actual airflow rate vs. a theoretical airflow for the opening. It provides an indication of the louvers' airflow characteristics.
- The AMCA Wind Driven Rain Test is performed in a laboratory environment and incorporates controlled wind, water and system airflow effects. In actual field installations, storms may create conditions not considered by the AMCA test. Penthouse and similar applications where wind can pass through multiple louvers in an enclosure is another condition that is not simulated by AMCA tests. These applications can create elevated water penetration rates through any louver. Because of these uncontrolled situations it is recommended that provisions to manage water penetration through louvers be included in the building design.

Class Discharge Loss Coefficient

- 0.4 and above
- 0.3 to 0.399
- 0.2 to 0.299
- 0.199 and below

(The higher the coefficient, the less resistance to airflow.)



Ruskin certifies that the EME5625D louver shown herein is 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 air performance ratings and wind driven rain ratings only.

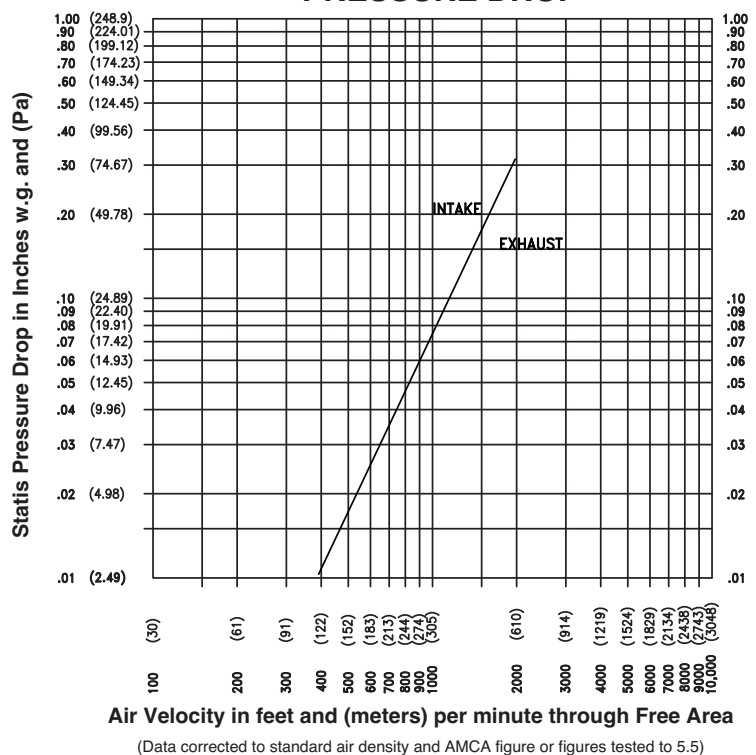
FREE AREA GUIDE

Free Area Guide shows free area in ft² and m² for various sizes of EME5625D. Width – Inches and Meters

Height – Inches and Meters	12		18		24		30		36		42		48	
	12	0.30	0.08	0.14	0.20	0.26	0.31	0.37	0.43	0.49	0.55	0.61	0.67	0.73
12	0.30	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04
18	0.46	0.02	0.04	0.06	0.08	0.11	0.13	0.15	0.17	0.19	0.21	0.23	0.25	0.27
24	0.61	0.04	0.07	0.10	0.13	0.16	0.18	0.21	0.24	0.27	0.30	0.33	0.36	0.39
30	0.76	0.06	0.10	0.14	0.18	0.22	0.26	0.30	0.34	0.38	0.42	0.46	0.50	0.54
36	0.91	0.07	0.13	0.18	0.23	0.28	0.33	0.38	0.43	0.48	0.53	0.58	0.63	0.68
42	1.07	0.09	0.15	0.22	0.28	0.34	0.41	0.47	0.54	0.60	0.67	0.73	0.80	0.86
48	1.22	0.11	0.18	0.26	0.33	0.41	0.48	0.56	0.63	0.71	0.79	0.86	0.94	1.01
54	1.37	0.12	0.21	0.30	0.38	0.47	0.56	0.64	0.73	0.82	0.91	1.00	1.09	1.18
60	1.52	0.14	0.24	0.34	0.43	0.53	0.63	0.73	0.83	0.93	1.03	1.13	1.23	1.33
66	1.68	0.15	0.25	0.36	0.46	0.57	0.67	0.77	0.87	0.97	1.07	1.17	1.27	1.37
72	1.83	0.16	0.28	0.40	0.51	0.63	0.74	0.86	0.97	1.08	1.19	1.30	1.41	1.51
78	1.98	0.18	0.31	0.44	0.56	0.69	0.82	0.95	1.07	1.20	1.32	1.44	1.56	1.68
84	2.13	0.20	0.34	0.48	0.61	0.75	0.89	1.03	1.17	1.31	1.45	1.59	1.73	1.87
90	2.29	0.21	0.36	0.51	0.67	0.82	0.97	1.12	1.27	1.41	1.56	1.71	1.86	2.00
96	2.44	0.23	0.39	0.55	0.72	0.88	1.04	1.21	1.37	1.53	1.69	1.85	2.01	2.17
102	2.59	0.24	0.42	0.59	0.77	0.94	1.12	1.29	1.46	1.63	1.80	1.97	2.14	2.31
108	2.74	0.26	0.45	0.63	0.82	1.01	1.19	1.38	1.56	1.74	1.92	2.10	2.28	2.46
114	2.90	0.28	0.48	0.67	0.87	1.07	1.27	1.47	1.66	1.86	2.05	2.25	2.44	2.64
120	3.05	0.29	0.50	0.71	0.92	1.13	1.34	1.55	1.76	1.96	2.17	2.37	2.58	2.78

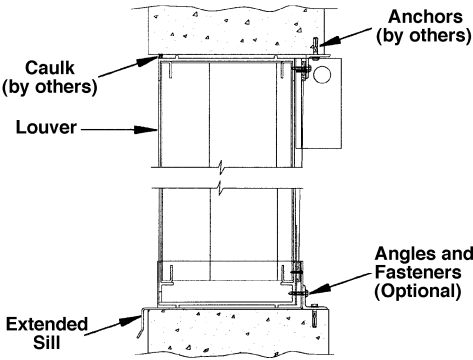
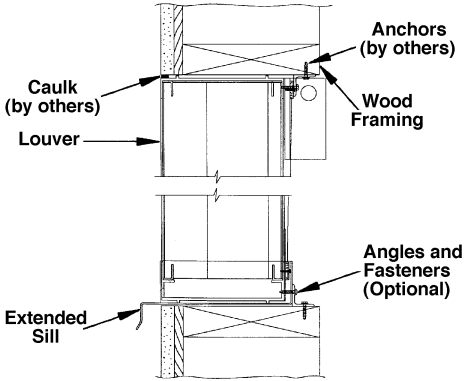
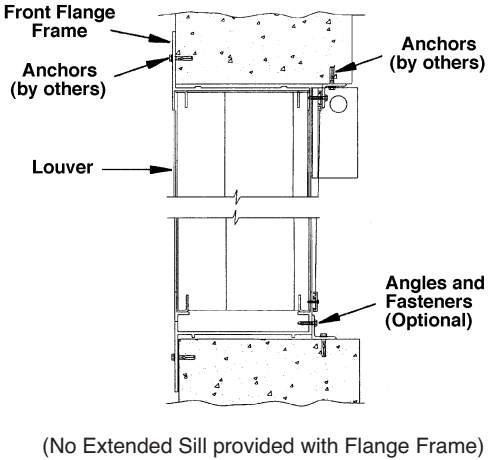
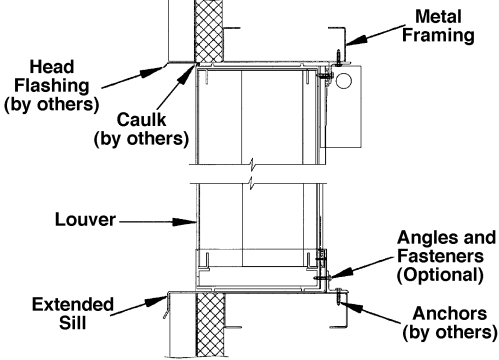
(No Extended Sill provided with Flange Frame)

PRESSURE DROP



Options available at additional cost.

TYPICAL INSTALLATION DETAILS

Masonry Wall	Wood Installation
	
Flange Mount	Metal Panel Wall
	

Options available at additional cost.

SUGGESTED SPECIFICATION

Furnish and install louvers as hereinafter specified where shown on plans or as described in schedules. Louvers shall possess stationary vertical blades designed to prevent the penetration of wind driven rain. Louver blades shall be contained within a 5" (127) frame. Extended sill shall be provided to capture and drain water to exterior of building. Louver components (heads, jambs, sill and blades) shall

be factory assembled by the louver manufacturer. Louver sizes too large for shipping shall be built up by the contractor from factory assembled louver sections to provide overall sizes required. Louver design shall incorporate visible mullions on units larger than 48" x 96" (1219 x 2438). Louvers shall withstand a wind load of 20 lbs. per sq. ft. (1.4kPa) (specifier may substitute any loading required).



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