

Performance Louvre





LE-602 WIND-DRIVEN RAIN RESISTANT STATIONARY LOUVER

Standard Construction

Model: LE-602

5.71" (145) deep, 6063T5 extruded aluminum with 0.08" (2) nominal wall thickness.

BLADES

6063-T5 extruded aluminum .thickness 0.05 (1.2)
45° Double drainable blades

Material

Aluminium

Stainless Steel

FINISH

Mill Finish

Stoved Polyester Powder Paint

Anodised

INSTALLATION

Horizontal

Vertical

MINIMUM SIZE

12"w x 12"h

MAXIMUM SHIPPING SIZE

Single sections shall not exceed 48"w x 120"h
or 120"w x 48"h

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

SUPPORTS

Louvers may be provided with rear mounted blade supports that increase overall louver depth depending on louver size, assembly configuration or Windload

Features

- ◆ Tested in the AMCA 500-L Wind-Driven Rain Penetration Test.
- ◆ Innovative design, to meet the various applications of the building.
- ◆ Continuous and uniform appearance to make it become the ideal shelter and external wall decoration materials
- ◆ No matter the transverse or longitudinal blade installation installation can achieve the same effect of rain-proof and ventilation
- ◆ Simple, flexible, and can be combined with different building structures
- ◆ Aluminum construction for low maintenance and high resistance to corrosion.

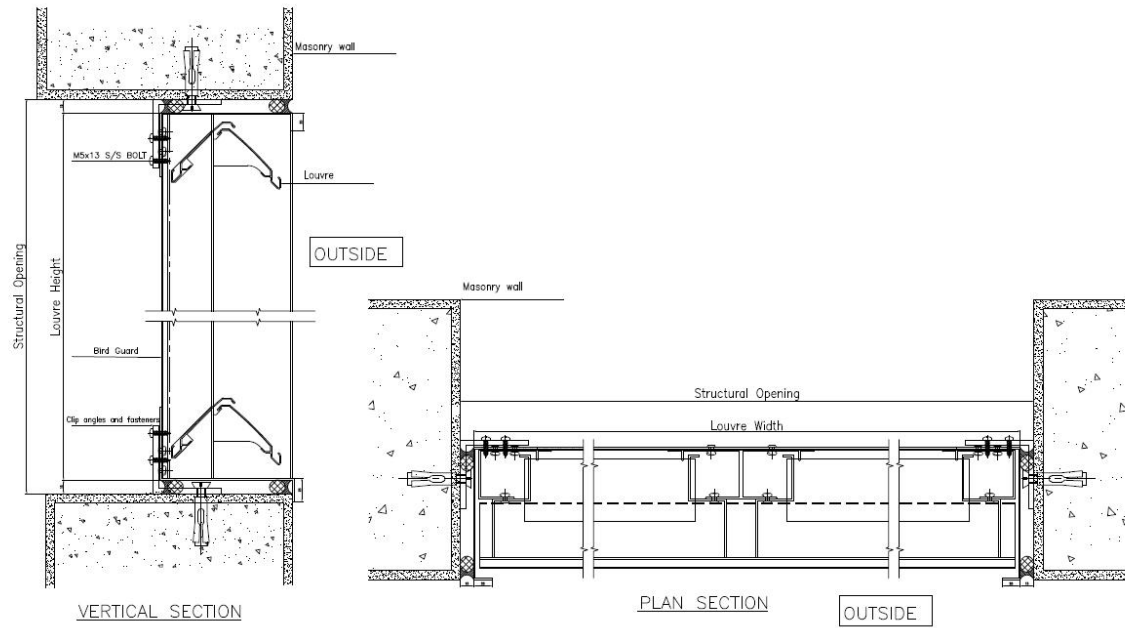
OPTIONAL EXTRAS

- ◆ Extend frame.
 - ◆ Acoustic Modules.
 - ◆ Special Shapes.
 - ◆ Louvre Doors.
 - ◆ Installation angles.
 - ◆ A variety of bird and insect screens.
 - ◆ Light belt.
 - ◆ Selection of finishes: prime coat, baked enamel (modified fluoropolymer), epoxy, Pearledize 50 & 70, Kynar, clear and color anodize. (Some variation in anodize color consistency is possible).
- Consult Vanman for other special requirements.

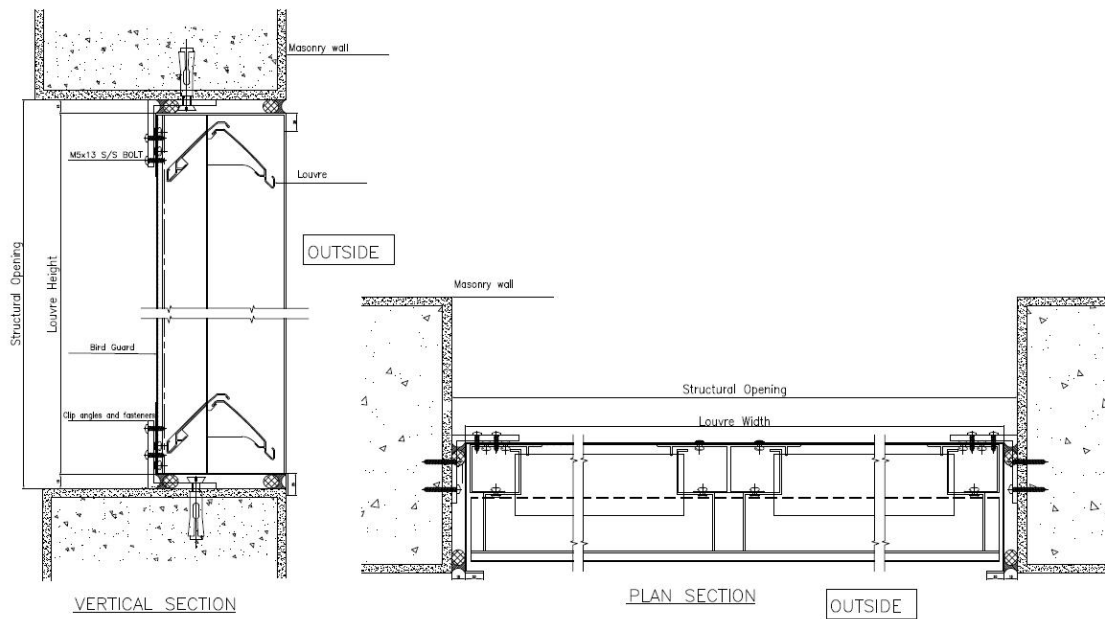


Shanghai Vanman Industrial Co.Ltd certifies that model LE-602 shown hereon is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance, water penetration and wind driven rain.

Frame Construction - Concrete Wall



FrameConstruction-Steel -Struct Wall



AMCA500-L Wind-driven rain performance

29 mph (13m/s) wind velocity & 3" (76) per hour rainfall rate

AMCA500-L Test Results

LE-602	Core Velocity fpm(m/s)							
	0(0)	0(0.5)	194(1.0)	293 (1.5)	368 (2.0)	476 (2.4)	587 (3.0)	664 (3.4)
Effectiveness	100%	100%	99.8%	99.6%	99.4%	96.1%	85.2%	69.5%
Penetration Class	A	A	A	A	A	B	C	D

NOTES

1. 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).
2. Free Area of test size is calculated per AMCA standard 500-L.
3. Wind Driven Rain Penetration Classes:

Class	Effectiveness
A	99.9 to 99%
B	98.9% to 95%
C	94.9% to 80%
D	Blow 80%

4. Discharge Loss Class 3

Discharge Loss Coefficient is calculated by dividing a louver's actual airflow rate vs. a theoretical airflow for the opening. It provides an indication of the louver's airflow characteristics.

Class	Discharge Loss Coefficient
1	0.4 and above
2	0.3 to 0.399
3	0.2 to 0.299
4	0.199 and below

The higher the coefficient, the less resistance to airflow

5. The AMCA500-L 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.



FREE AREA GUIDE

Free Area Guide shows free area in ft² for various sizes of LE-602.

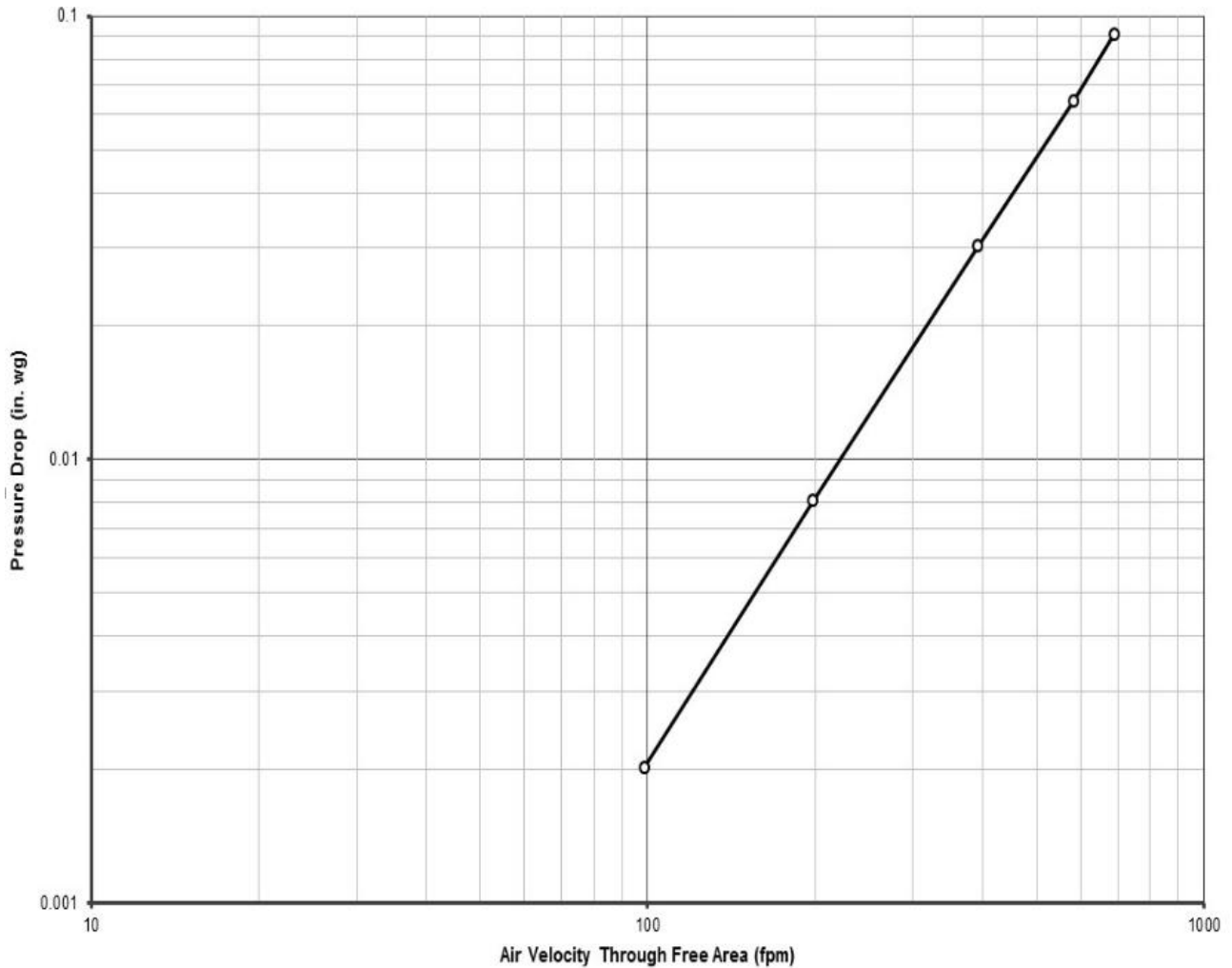
Width and Height Unit Inches

Test Size 48" x 48"

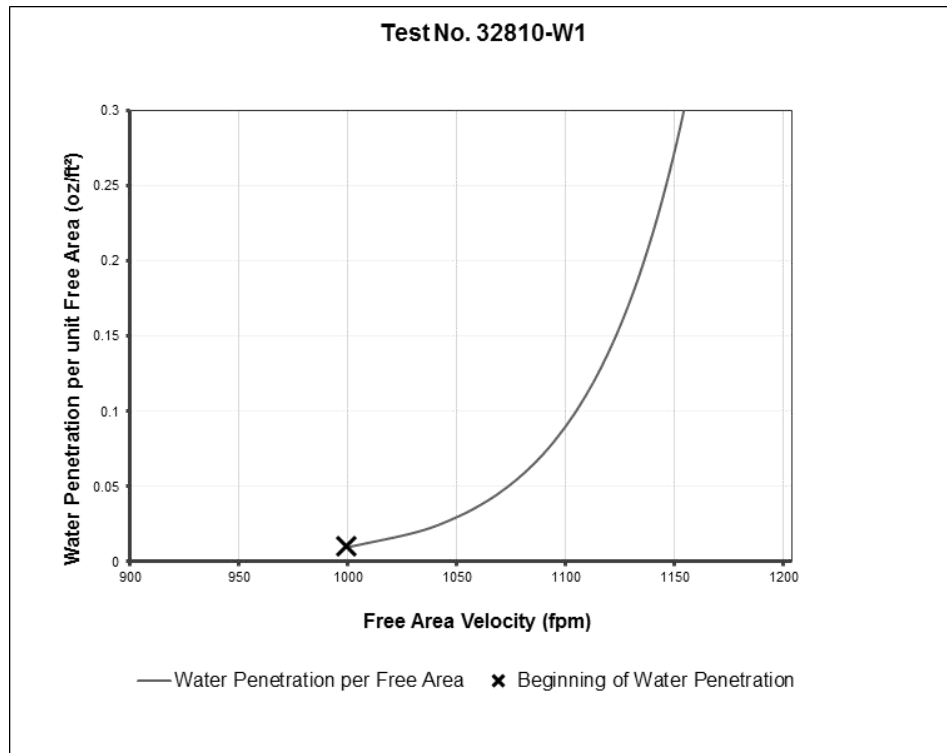
size		WIDTH																		
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
HEIGHT	12	0.19	0.39	0.59	0.79	0.99	1.19	1.39	1.59	1.86	1.99	2.19	2.39	2.59	2.79	2.99	3.19	3.39	3.59	3.79
	18	0.30	0.60	0.91	1.21	1.52	1.82	2.13	2.43	2.84	3.04	3.35	3.65	3.96	4.27	4.57	4.88	5.18	5.49	5.79
	24	0.45	0.91	1.38	1.84	2.31	2.77	3.23	3.70	4.32	4.63	5.09	5.55	6.02	6.48	6.95	7.41	7.88	8.34	8.80
	30	0.55	1.12	1.69	2.26	2.83	3.40	3.97	4.54	5.30	5.68	6.25	6.82	7.39	7.96	8.53	9.10	9.67	10.24	10.81
	36	0.70	1.43	2.16	2.89	3.62	4.35	5.07	5.81	6.78	7.26	7.99	8.72	9.45	10.18	10.91	11.64	12.36	13.09	13.82
	42	0.81	1.64	2.48	3.31	4.15	4.98	5.81	6.65	7.76	8.32	9.15	9.99	10.82	11.66	12.49	13.33	14.16	14.99	15.83
	48	0.96	1.95	2.95	3.94	4.93	5.93	6.91	7.91	9.24	9.90	10.89	11.89	12.88	13.87	14.87	15.86	16.85	17.85	18.84
	54	1.06	2.16	3.26	4.36	5.46	6.56	7.65	8.76	10.22	10.96	12.05	13.15	14.25	15.35	16.45	17.55	18.65	19.75	20.85
	60	1.22	2.47	3.73	4.99	6.25	7.51	8.75	10.02	11.70	12.54	13.80	15.05	16.31	17.57	18.83	20.08	21.34	22.60	23.86
	66	1.32	2.68	4.05	5.41	6.77	8.14	9.49	10.86	12.68	13.59	14.96	16.32	17.68	19.05	20.41	21.77	23.14	24.50	25.87
	72	1.47	2.99	4.52	6.04	7.56	9.08	10.59	12.13	14.16	15.17	16.70	18.22	19.74	21.26	22.79	24.31	25.83	27.35	28.88
	78	1.57	3.20	4.83	6.46	8.09	9.72	11.33	12.97	15.14	16.23	17.86	19.49	21.11	22.74	24.37	26.00	27.63	29.26	30.88
	84	1.73	3.51	5.30	7.09	8.88	10.66	12.44	14.24	16.62	17.81	19.60	21.39	23.17	24.96	26.75	28.53	30.32	32.11	33.90
	90	1.83	3.72	5.62	7.51	9.40	11.29	13.17	15.08	17.60	18.87	20.76	22.65	24.54	26.44	28.33	30.22	32.12	34.01	35.90
	96	1.98	4.03	6.09	8.14	10.19	12.24	14.28	16.34	19.08	20.45	22.50	24.55	26.60	28.65	30.71	32.76	34.81	36.86	38.91
	102	2.09	4.24	6.40	8.56	10.72	12.87	15.01	17.19	20.06	21.50	23.66	25.82	27.98	30.13	32.29	34.45	36.61	38.76	40.92
	108	2.24	4.56	6.87	9.19	11.50	13.82	16.12	18.45	21.54	23.09	25.40	27.72	30.03	32.35	34.67	36.98	39.30	41.62	43.93
	114	2.34	4.76	7.19	9.61	12.03	14.45	16.85	19.30	22.53	24.14	26.56	28.98	31.41	33.83	36.25	38.67	41.09	43.52	45.94
	120	2.49	5.08	7.66	10.24	12.82	15.40	17.96	20.56	24.00	25.72	28.30	30.88	33.46	36.05	38.63	41.21	43.79	46.37	48.95

PRESSURE DROP

- Pressure Drop testing performed on 48" x 48" (1200 x 1200) sample size.
- Test in accordance with ANSI/AMCA 500-L.Figure 5.5.
- Air performance data are based on intake performance.
- Data corrected to standard air density.



Water Penetration Test Figure 5.6-6.3



Test Results :			Net Weight
Det.	Q_S	$V_{\text{Free Area}}$	(oz./ft ²)
1	6235.3	902.4	0.001
2	6585.0	953.0	0.004
3	6941.7	1004.6	0.013
4	7627.3	1103.8	0.088

Beginning of water penetration per
AMCA Publication 511 Section 8.3.2
based on AMCA measured free area :
999.5 fpm



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