

**GENERAL**

The LV130 is a 5" deep, mechanically fastened, extruded aluminum louver, designed to shield air intake and exhaust openings in exterior walls during hurricane conditions. It features a drainable gutter system to channel water away and offers a continuous angle option for easy installation. With AMCA 540 and 550 listings, the LV130 is ideally suited for use in hurricane-prone and wind-borne debris regions, adhering to the International Building Code requirements.

**STANDARD FEATURES**

- Mill finish 6063-T6 extruded aluminum.
- 1 1/2" blade spacing.
- 4 13/16" blade depth
- 1/16" blade thickness 5 1/8" frame deep
- Powder coating with all standard RAL colors and various anodized colors
- Minimum size 12" x 12"
- Maximum size 60" x 120"
- AMCA 540 (impact resistant, Enhanced protection) listed.
- AMCA 550 (high velocity rain resistant) listed.



**OPTIONS AND ACCESSORIES**

- Bird Screen
- Blank Off Panels
- Extended Sill
- Glazing Frame
- Insect Screen
- Security Bars
- Variety of Architectural Finishes

**PERFORMANCE VALUES**

- Blade Style : Vertical
- Free Area : 8.39sqft 52.5% (48" x 48" unit)
- Pressure Drop of .18 in.wg. : 1054 fpm Free Area Velocity
- Design Load: 130 psf

Beginning Point of Water Penetration

- Free Area Velocity : 578.8 fpm
- Air Volume Delivered : 4964 cfm
- Pressure Loss : 0.14 oz. /sq. ft.



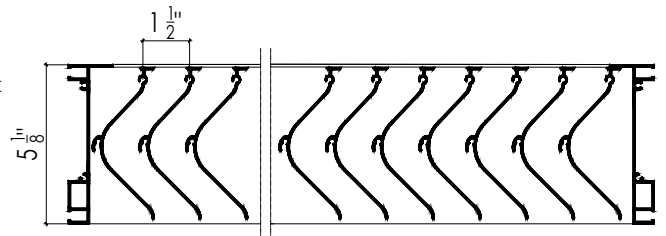
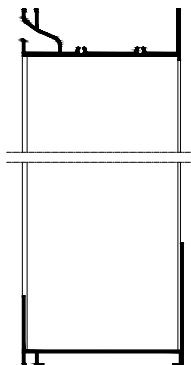
**Certified Ratings:**  
Bisam Facade Inc. certifies that the LV-130 shown herein is licensed to bear the AMCA Certified Ratings Program seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Program seal applies to air performance, water penetration and wind-driven rain ratings.



**HIGH VELOCITY RAIN RESISTANT AND IMPACT RESISTANT LOUVER**  
*Enhanced Protection*

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

This label does not signify AMCA airflow performance certification.



**Certified Ratings:**

Bisam Facade Inc. certifies that the model LV130 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 high velocity rain and wind borne debris impact resistant louvers.

### Free Area

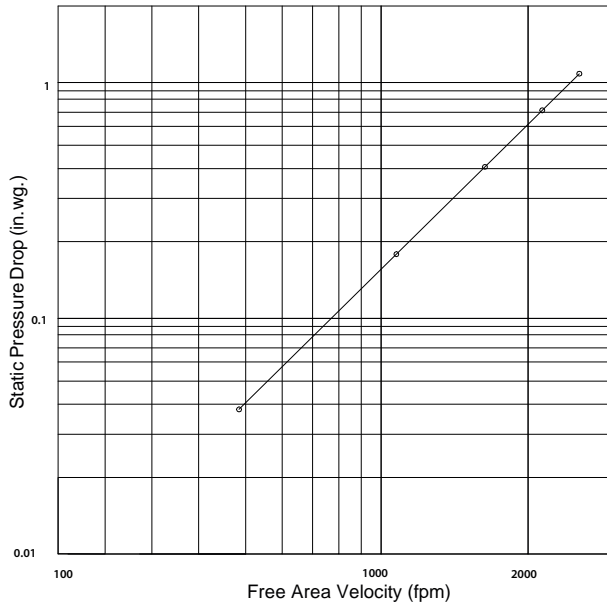
Height (Inches)	Width (Inches)								
	12	18	24	30	36	42	48	54	60
12	0.2	0.4	0.6	0.8	0.9	1.1	1.3	1.5	1.6
18	0.5	0.8	1.1	1.5	1.8	2.1	2.5	2.8	3.1
24	0.7	1.2	1.7	2.2	2.7	3.2	3.7	4.1	4.6
30	0.9	1.6	2.2	2.9	3.5	4.2	4.8	5.5	6.1
36	1.1	2.0	2.8	3.6	4.4	5.2	6.0	6.8	7.7
42	1.4	2.3	3.3	4.3	5.3	6.2	7.2	8.2	9.2
48	1.6	2.7	3.9	5.0	6.1	7.3	8.4	9.5	10.7
54	1.8	3.1	4.4	5.7	7.0	8.3	9.6	10.9	12.2
60	2.0	3.5	4.9	6.4	7.9	9.3	10.8	12.2	13.7
66	2.3	3.9	5.5	7.1	8.7	10.3	11.9	13.6	15.2
72	2.5	4.3	6.0	7.8	9.6	11.4	13.1	14.9	16.7
78	2.7	4.6	6.6	8.5	10.4	12.4	14.3	16.3	18.2
84	2.9	5.0	7.1	9.2	11.3	13.4	15.5	17.6	19.7
90	3.2	5.4	7.7	9.9	12.2	14.4	16.7	18.9	21.2
96	3.4	5.8	8.2	10.6	13.0	15.5	17.9	20.3	22.7
102	3.6	6.2	8.8	11.3	13.9	16.5	19.1	21.6	24.2
108	3.8	6.6	9.3	12.0	14.8	17.5	20.2	23.0	25.7
114	4.0	6.9	9.8	12.7	15.6	18.5	21.4	24.3	27.2
120	4.3	7.3	10.4	13.4	16.5	19.6	22.6	25.7	28.7

### Airflow Resistance

Test method per ANSI / AMCA Standard 500-L-12 (Pressure Drop)

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

Pressure loss tested in accordance with figure 5.5 of AMCA.



### Wind-Driven Rain Performance

3 in./hr. (75mm/hr.) Rainfall Rate & 29 mph (13 m/s) Wind Velocity				8 in./hr. (203mm/hr.) Rainfall Rate & 50 mph (22.4 m/s) Wind Velocity			
Ventilation Air Core Velocity fpm (m/s)	Ventilation Air Free Area Velocity fpm (m/s)	Water Penetration Effectiveness %	Class	Ventilation Air Core Velocity fpm (m/s)	Ventilation Air Free Area Velocity fpm (m/s)	Water Penetration Effectiveness %	Class
0 (0.0)	0 (0.0)	100	A	0 (0.0)	0 (0.0)	100	A
98 (0.5)	162 (0.8)	100	A	96 (0.5)	158 (0.8)	100	A
196 (1.0)	324 (1.6)	100	A	196 (1.0)	324 (1.6)	100	A
294 (1.5)	486 (2.4)	100	A	287 (1.5)	474 (2.4)	100	A
393 (2.0)	650 (3.2)	100	A	396 (2.0)	655 (3.2)	100	A
492 (2.5)	814 (4.0)	100	A	481 (2.5)	796 (4.0)	100	A
590 (3.0)	976 (4.8)	100	A	587 (3.0)	971 (4.8)	100	A
688 (3.5)	1138 (5.6)	100	A	690 (3.5)	1141 (5.6)	100	A
786 (4)	1300 (6.3)	100	A	791 (4.0)	1309 (6.4)	99.6	A
885 (4.4)	1464 (7.1)	100	A	887 (4.4)	1467 (7.1)	99.6	A
983 (5.0)	1626 (8.0)	100	A	984 (5.0)	1628 (7.9)	99.4	A

### 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 core area is the open area of the louver face. The core velocity is the airflow divided by the core area. Test louver core area is 10.77 ft<sup>2</sup>.

Free area velocity is the airflow divided by free area. Test louver free area is 6.5 ft<sup>2</sup>.

### Water Penetration

AMCA defines the beginning point of water penetration as the free area velocity at the intersection of a simple linear regression of test data and the line of 0.01 ounces of water per square foot of free area measured through a 48" x 48" louver during a 15-minute period. The beginning point of water penetration for Model LV130 is 579 fpm free area velocity. The AMCA water penetration test provides a method for comparing louver models and designs as to their efficiency in resisting the penetration of rainfall under specific lab conditions. We recommend that intake louvers are selected with a reasonable margin of safety below the beginning point of water.

