

Extruded Aluminum Louver

IL38

3" Deep • Vertical Blade • Rain Resistant Stationary Louver

STANDARD CONSTRUCTION

- FRAME:** .081" thick nominal ; 6063-T6/T52 extruded aluminum alloy
- BLADES:** .050" thick nominal; 6063-T6/T52 extruded aluminum alloy
- BLADE SPACING:** .8125"
- ASSEMBLY:** Mechanically fastened
- SCREEN:** 1/2" x .051" flattened aluminum birdscreen
- FINISH:** Mill

OPTIONS

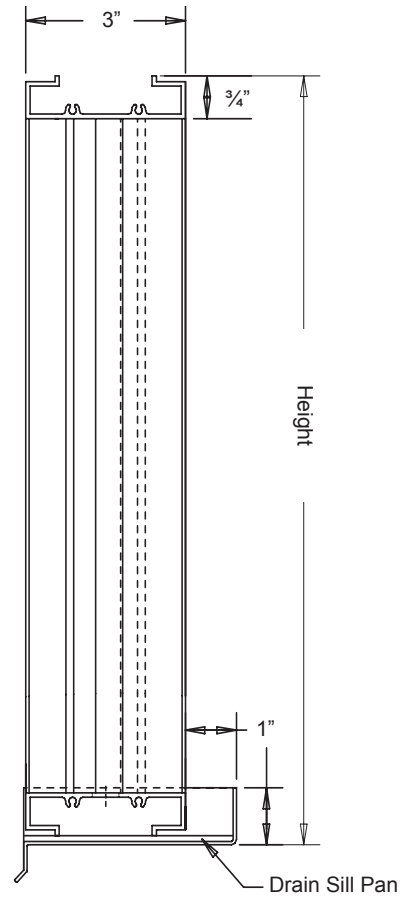
- Finish - Baked Enamel, Kynar, or Anodize
- Variety of Bird and Insect Screen
- 1 3/8" Usable Flange Frame (3 Sides Only)
- Welded Construction
- Blank-off Panels

NOTES

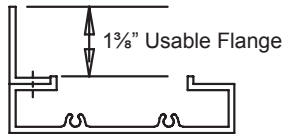
1. "A" width and "B" height are opening dimensions. Louvers are provided approximately 1/2" undercut.
2. Shipping weight approximately 7 lbs./sq.ft.

LOUVER SIZE

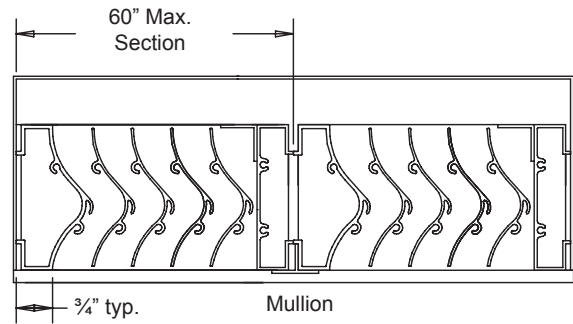
Panels	Min Panel	Max Single Panel
IL38	12"W x 12"H	60"W x 96"H



Section View



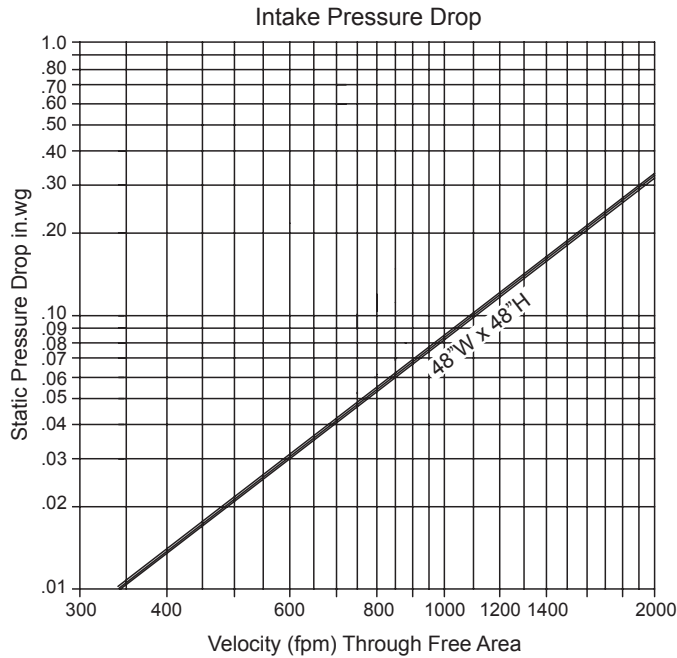
Optional Flange Frame



Mullion

Pressure Drop: 0.085 in.wg at 1000 fpm and 7,060 scfm
 Free Area: 7.06 sq.ft. = 44% for 48"W x 48"H test size

Ratings do not include the effect of birdscreen.



Free Area sq.ft

		Width								
		12"	18"	24"	30"	36"	42"	48"	54"	60"
Height	12"	0.34	0.55	0.76	0.97	1.18	1.39	1.59	1.81	2.02
	24"	0.73	1.18	1.64	2.09	2.53	2.98	3.42	3.89	4.34
	36"	1.12	1.80	2.52	3.21	3.88	4.57	5.24	5.97	6.66
	48"	1.52	2.43	3.40	4.33	5.24	6.17	7.06	8.05	8.98
	60"	1.91	3.06	4.28	5.45	6.59	7.76	8.90	10.13	11.30
	72"	2.30	3.69	5.16	6.57	7.94	9.35	10.72	12.21	13.63
84"	2.69	4.32	6.04	7.69	9.29	10.95	12.55	14.29	15.95	
96"	3.08	4.95	6.92	8.81	10.65	12.54	14.37	16.38	18.27	

Wind Driven Rainwater Penetration Test Conducted to AMCA Standard 500-L-99

Test Size 1m x 1m Core Area, Nominal Louver Free Area 5.11sq.ft

Wind Velocity	Rainfall Rate	Core Area Velocity	Airflow	Free Area Velocity	Effectiveness Ratio	Class	Discharge Loss Coefficient Class Intake
29 mph	3 in/hr	689 fpm	7415 cfm	1451 fpm	100%	A	I
50 mph	8 in/hr	683 fpm	7352 cfm	1439 fpm	99.5%	A	I

Wind Driven Rain Penetration Classifications

Class	Effectiveness %
A	1 - 0.99%
B	0.989 - 0.95%
C	0.949 - 0.80%
D	Below 0.80%

Discharge Loss Coefficient Classifications

Class	Discharge Loss Coefficient
1	0.4 and Above
2	0.3 - 0.399
3	0.20 - 0.299
4	0.199 and Below

Class 1 Loss Coefficient has the least resistance to airflow.

1. Core Area is the front opening of a louver assembly with the blades removed.
2. Core Area Velocity is the airflow rate through the louver divided by the core area (39.37" x 39.37).
3. Free Area is the minimum area through which air can pass. It is determined by multiplying the sum of the minimum distances between intermediate blades, top blade and head, bottom blade and sill, by the minimum distance between jambs.
4. Discharge Loss Coefficient is calculated by dividing a louver actual airflow rate vs. a theoretical airflow for the opening. Providing an indication of the louver air flow characteristics.



Louvers & Dampers certifies that the Model IL38 shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with the 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.