

Extruded Aluminum Louver

IL53

4" Deep • Horizontal Drainable Blade • Rain Resistant Stationary Louver

STANDARD CONSTRUCTION

- FRAME:** .080" thick; 6063-T6/T52 extruded aluminum alloy
- BLADES:** .080" thick; 6063-T6/T52 extruded aluminum alloy
- DRAIN SILL PAN:** .060" thick; formed aluminum
- ASSEMBLY:** Mechanically fastened
- SCREEN:** ½" x .051" flattened aluminum birdscreen
- FINISH:** Mill

OPTIONS

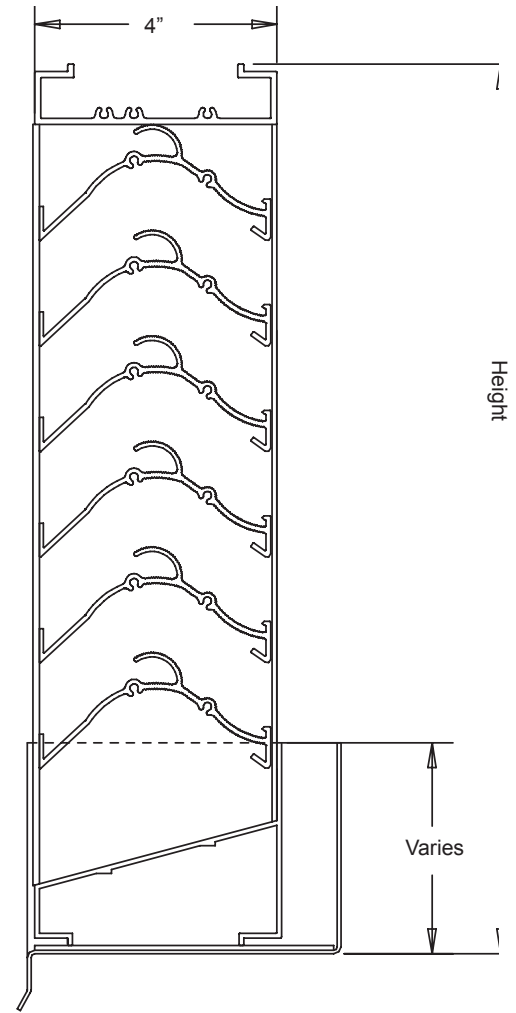
- Finish - Baked Enamel, Kynar, or Anodize
- Variety of Bird and Insect Screen
- 1⅝" Usable Flange (Front Face Only)
- Welded Construction
- Blank-off Panels

NOTES

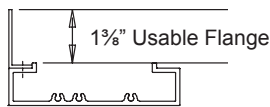
1. "A" width and "B" height are opening dimensions. Louvers are provided approximately ½" undercut.
2. Shipping weight approximately 5.5 lbs./sq.ft.

LOUVER SIZE

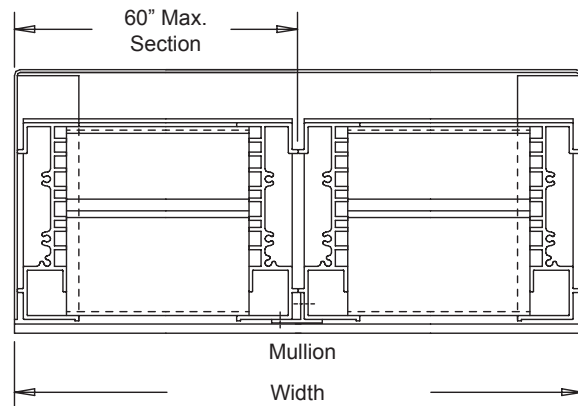
Panels	Min Panel	Max Single Panel
IL53	12"W x 12"H	60"W x 96"H



Section View

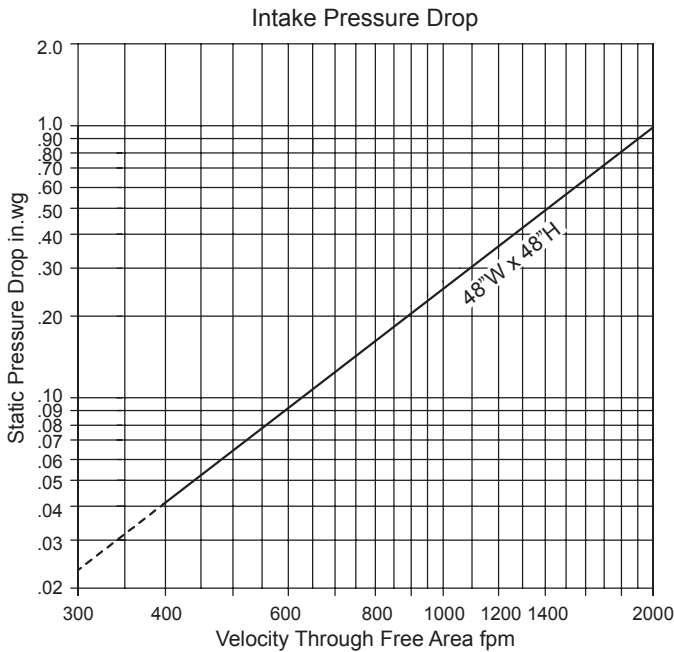


Optional Flange Frame



Pressure Drop: 0.26 in.wg at 1000 fpm
 Free Area: 7.50 sq.ft. = 47% for 48"W x 48"H test size

Ratings do not include the effect of birdscreen.



Free Area sq.ft

Height	Width								
	12"	18"	24"	30"	36"	42"	48"	54"	60"
12"	0.20	0.33	0.46	0.59	0.72	0.85	0.98	1.11	1.24
24"	0.73	1.19	1.66	2.12	2.59	3.05	3.52	3.98	4.45
36"	1.19	1.94	2.70	3.46	4.22	4.98	5.74	6.50	7.26
48"	1.71	2.80	3.90	4.99	6.09	7.18	7.50	9.37	10.46
60"	2.17	3.56	4.95	6.33	7.72	9.11	10.50	11.89	13.27
72"	2.63	4.31	5.99	7.67	9.36	11.04	12.72	14.40	16.08
84"	3.15	5.17	7.19	9.21	11.22	13.24	15.26	17.27	19.29
96"	3.61	5.92	8.23	10.55	12.86	15.17	17.48	19.79	22.10

Discharge Coefficient
 Intake Cd = 0.25 (Class 3)

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

Test Size 39.37"W x 39.37"H (1m x 1m) Core Area, Nominal Louver Free Area is 5.24ft²

Core Ventilation (m/s)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	Ranfall/mph
fpm	0	98	197	295	394	492	578	666	3 in/hr Rainfall and 29 mph Velocity
Free Area Ventilation (cfm)						5302	6220	7174	
Free Area Velocity (fpm)						962	1129	1302	
Effective Rating Class	A	A	A	A	A	A	A	A	8 in/hr Rainfall and 50 mph Velocity
fpm	0	102	198	282	381	468	564	690	
Free Area Ventilation (cfm)	0	1100	2129	3041	4105	5041	6071	7433	
Free Area Velocity (fpm)	0	200	386	552	745	915	1102	1349	
Effective Rating Class	B	B	B	B	B	B	B	C	

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%

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.

Discharge Loss Coefficient Classifications

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

Class 1 Loss Coefficient has the least Resistance to Airflow



Louvers & Dampers certifies that the Model IL53 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 Penetration Ratings.