

MODEL A490

4" Deep • Horizontal Drainable Blade • Rain Resistant Extruded Aluminum Louver

STANDARD MATERIALS AND 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

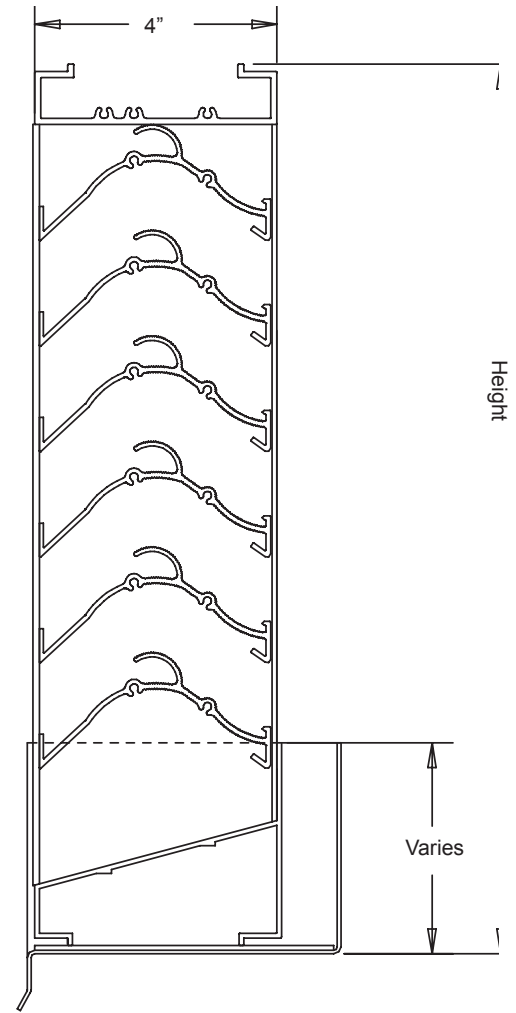
- Finish - Baked Enamel, Kynar, or Anodize
- Variety of Bird and Insect Screen
- 1½" Usable Flange Frame (Front Face Only)
- Welded Construction
- Blank-off Panels

NOTES

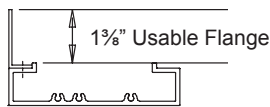
1. "A" width and "B" height are opening dimensions. Dampers are provided ¼" undercut.
2. Shipping weight approximately 5.5 lbs./sq.ft.

LOUVER SIZES

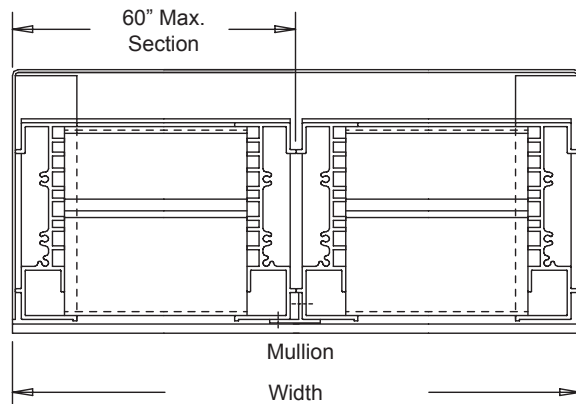
Panels	Min Panel	Max Single Panel
A490	12"W x 12"H	60"W x 96"H



Section View



Optional Flange Frame



air balance

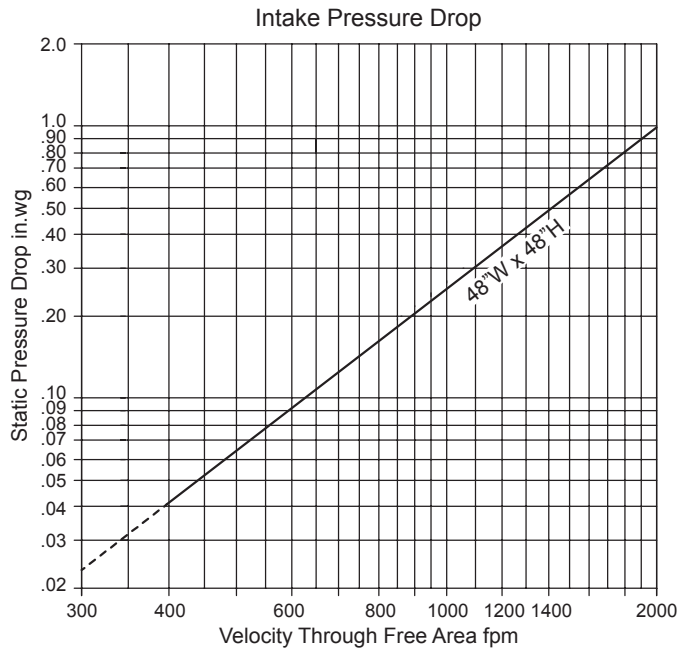
Dampers  Louvers
 UL Life Safety Products
 Division of Mestek
 Member of AMCA

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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								
		Width								
Height		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 5.24ft ²									
Core Ventilation (m/s)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	Rainfall/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	
fpm	0	102	198	282	381	468	564	690	8 in/hr Rainfall and 50 mph Velocity
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%

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 I 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.



Air Balance certifies that the Model A490 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.

