

# MODEL A200

2" Deep • Drainable Blade • Rain Resistant Extruded Aluminum Louver

## STANDARD MATERIALS AND CONSTRUCTION

- FRAME:** .063" thick nominal; 6063-T6/T52 extruded aluminum alloy
- BLADES:** .063" thick nominal; 6063-T6/T52 extruded aluminum alloy
- DRAIN SILL PAN:** .060" thick; formed aluminum
- ASSEMBLY:** Mechanically fastened
- SCREEN:** 1/2" x .051" flattened aluminum birdscreen
- FINISH:** Mill

## OPTIONS

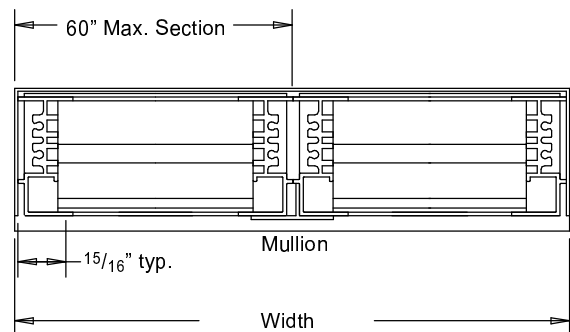
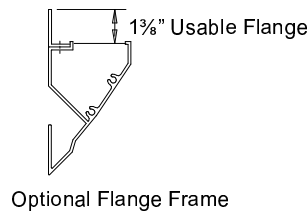
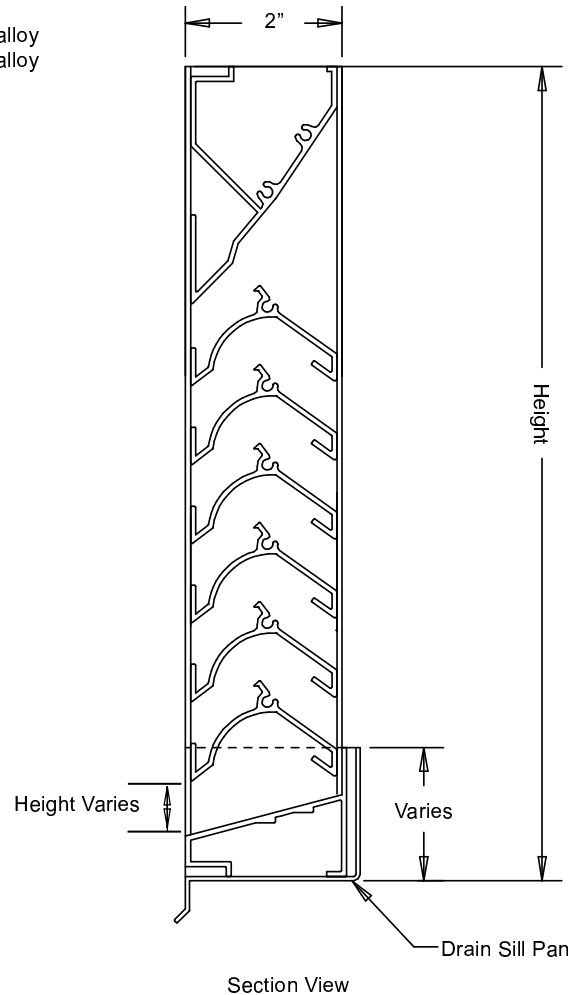
- Finish - Baked Enamel, Kynar, or Anodize
- Variety of Bird and Insect Screen
- 1 1/8" Usable Flange Frame (Front Face Only)
- Welded Construction
- Blank-off Panels

## NOTES

1. "A" width and "B" height are opening dimensions. Louvers are provided approximately 1/2" undercut.
2. Shipping weight approximately 4 lbs./sq.ft.

## LOUVER SIZES

Panels	Min Panel	Max Single Panel
A200	12"W x 12"H	60"W x 96"H



air balance

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

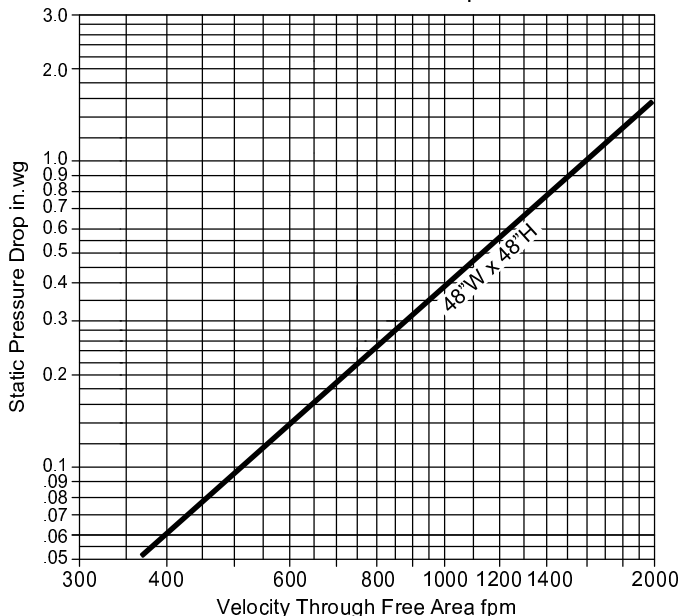
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Pressure Drop: 0.01 in.wg at 748 fpm and 5408 scfm  
 Free Area: 6.93 sq.ft. = 43.3% for 48"W x 48"H test size

Ratings do not include the effect of birdscreen.

Intake Pressure Drop



Free Area sq.ft

		Width								
		12"	18"	24"	30"	36"	42"	48"	54"	60"
Height	12"	0.28	0.45	0.62	0.79	0.95	1.12	1.29	1.46	1.62
	24"	0.71	1.13	1.55	1.97	2.39	2.81	3.23	3.65	4.07
	36"	1.14	1.81	2.48	3.15	3.83	4.50	5.17	5.84	6.52
	48"	1.56	2.49	3.41	4.34	5.26	6.19	6.93	8.04	8.96
	60"	1.99	3.17	4.35	5.52	6.70	7.88	9.56	10.23	11.41
	72"	2.42	3.85	5.28	6.71	8.14	9.56	10.99	12.42	13.85
	84"	2.85	4.53	6.21	7.89	9.57	11.25	12.93	14.62	16.30
	96"	3.27	5.21	7.14	9.07	11.01	12.94	14.88	16.81	18.74

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<sup>2</sup>

Core Ventilation (m/s)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	Rainfall/mph
fpm	0	133	212	296	383	491	581	668	3 in/hr Rainfall and 29 mph Velocity
Free Area Ventilation (cfm)	0	1431	2279	3188	4128	5291	6259	7192	
Free Area Velocity (fpm)	-	273	435	608	788	1010	1194	1373	
Effective Rating Class	A	A	A	B	B	C	D	D	
fpm	0	117	195	280	386	461	569	695	8 in/hr Rainfall and 50 mph Velocity
Free Area Ventilation (cfm)	0	1261	2095	3013	4157	4964	6123	7483	
Free Area Velocity (fpm)	-	240	400	575	793	947	1169	1428	
Effective Rating Class	A	A	B	B	B	C	C	D	

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 Coefficient

Intake Cd = 0.19 (Class 4)

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 A200 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 and Wind Driven Rain Ratings only.

