

MODEL A750

7" Deep • Chevron Drainable Blade • Sightproof • Wind Drive Rain Extruded Aluminum Louver

STANDARD MATERIALS AND CONSTRUCTION

- EXTERIOR FRAME:** .080" thick; 6063-T6/T52 extruded aluminum alloy
- BLADES:** .080" thick; 6063-T6/T52 extruded aluminum alloy
- ASSEMBLY:** Mechanically fastened
- SCREEN:** 1/2" x .051" flattened aluminum birdscreen
- FINISH:** Mill

OPTIONS

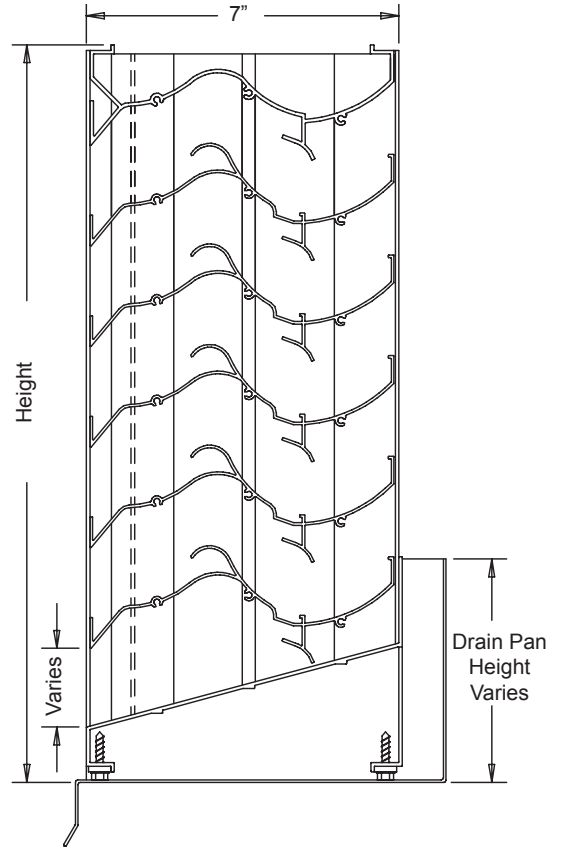
- Finish - Baked Enamel, Kynar, or Anodize
- Variety of Bird and Insect Screen
- 1 3/8" Usable Flange Frame (3 Sides Only, Not on Sill)
- Welded Construction
- Blank-off Panels

NOTES

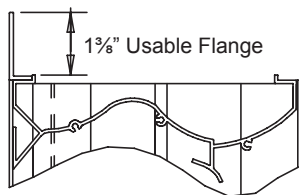
1. "A" width and "B" height are opening dimensions. Louvers are provided 1/2" undercut.
2. Shipping weight approximately 9 lbs./sq.ft.

LOUVER SIZES

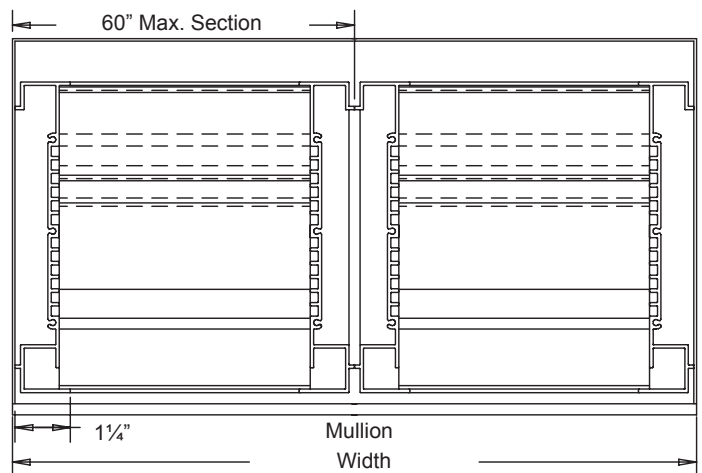
Panels	Min Panel	Max Single Panel
A750	12"W x 12"H	30 sq.ft



Section View



Optional Flange Frame



air balance

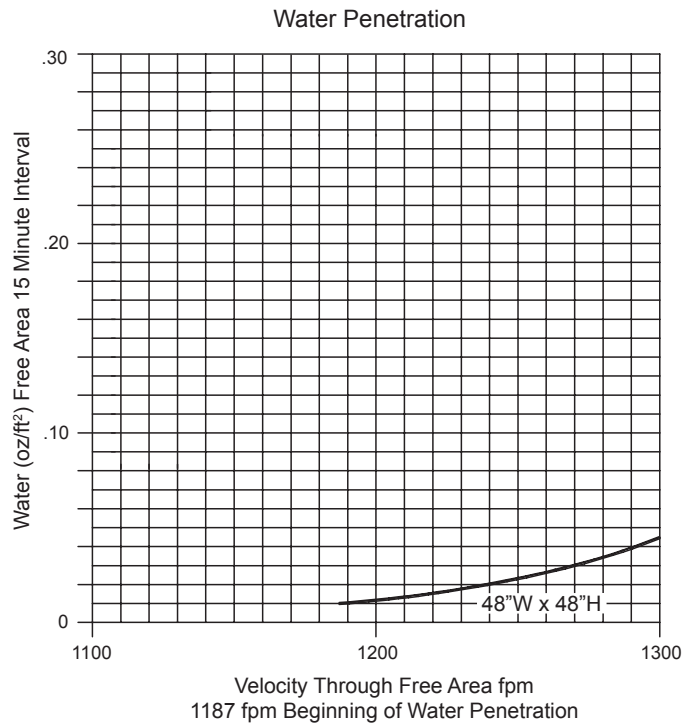
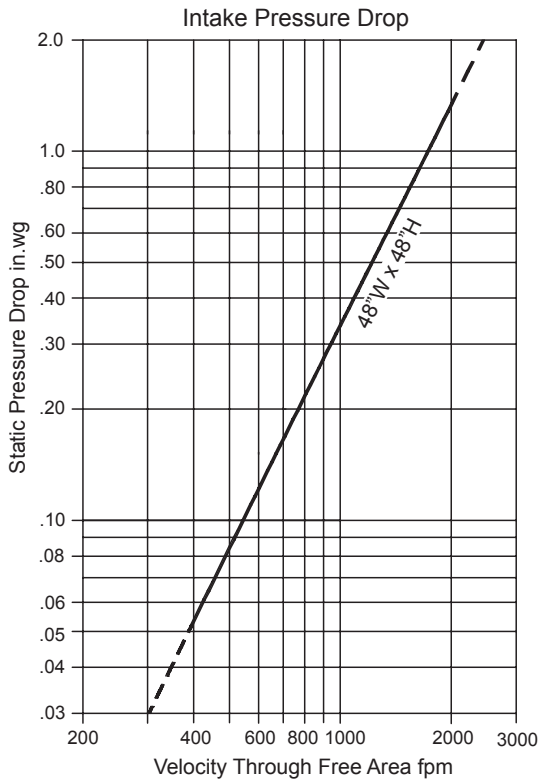
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Pressure Drop: 0.33 in.wg at 1000 fpm and 8570 scfm
 Free Area: 7.22 sq.ft. = 45.1% for 48"W x 48"H test size

Ratings do not include the effect of birdscreen.



Free Area sq.ft

		Width									
		12"	24"	36"	48"	60"	72"	84"	96"	108"	120"
Height	12"	0.24	0.55	0.86	1.17	1.48	1.79	2.10	2.41	2.72	3.03
	24"	0.63	1.44	2.25	3.06	3.87	4.68	5.49	6.30	7.11	7.92
	36"	1.02	2.33	3.65	4.96	6.27	7.58	8.89	10.20	11.51	12.82
	48"	1.49	3.40	5.32	7.22	9.14	11.05	12.96	14.87	16.78	18.69
	60"	1.89	4.30	6.71	9.12	11.53	13.94	16.35	18.77	21.18	23.59
	72"	2.28	5.19	8.10	11.01	13.92	16.84	19.75	22.66	25.57	28.49
	84"	2.75	6.26	9.77	13.28	16.80	20.31	23.82	27.33	30.85	34.36
	96"	3.14	7.15	11.16	15.18	19.19	23.20	27.22	31.23	35.24	39.26
	108"	3.53	8.04	12.56	17.07	21.58	26.10	30.61	35.12	39.64	44.15
	120"	4.00	9.11	14.23	19.34	24.46	29.57	34.68	39.80	44.91	50.03



Air Balance certifies that the Model A750 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, Water Penetration, and Wind Driven Rain Ratings only.



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

Test Size 1m x 1m (39.37" x 39.37") Core Area, 41.87"W x 42.86"H Nominal. Louver Free Area 5.29 sq.ft.

Core Ventilation m/s	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	Rainfall / mph
fpm	0	0	0	0	0	482	569	657	751	864	977	3 in/hr Rainfall and 29 mph Velocity
Free Area Ventilation cfm	-	-	-	-	-	5195	6126	7076	8086	9306	10,519	
Free Area Velocity fpm	-	-	-	-	-	982	1158	1338	1529	1759	1988	
Effective Rating Class	A	A	A	A	A	A	A	A	C	C	C	
Effectiveness Ratio %	-	-	-	-	-	100	99.8	99.3	94.8	90.0	83.1	
fpm	0	0	0	0	0	482	578	659	763	847	974	8 in/hr Rainfall and 50 mph Velocity
Free Area Ventilation cfm	-	-	-	-	-	5189	6227	7096	8210	9115	10,483	
Free Area Velocity fpm	-	-	-	-	-	981	1177	1341	1552	1723	1982	
Effective Rating Class	A	A	A	A	A	A	A	B	C	C	C	
Effectiveness Ratio %	-	-	-	-	-	100	99.0	96.5	92.9	88.6	80.8	

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

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

Discharge Coefficient
Intake Cd = 0.22 (Class 3)

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"W x 39.37"H).
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.



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