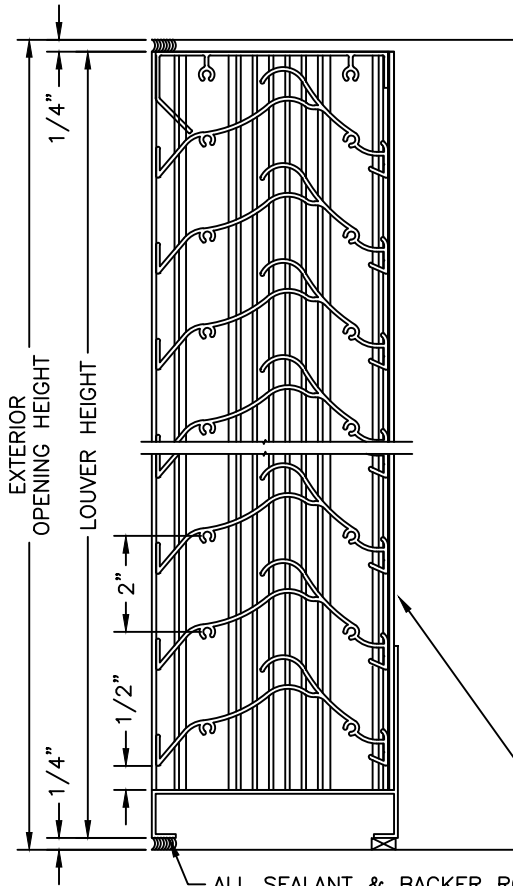


The illustrated design was created to a design load of 30 lbs. per square foot. Changes may be required to accommodate other design loads.

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ALL SEALANT & BACKER ROD PROVIDED BY INSTALLER (NOT BY ATOMS)

FLAT BAR STIFFENER USED WHEN BLADE LENGTH EXCEEDS 60"

PERFORMANCE DATA

The data below supersedes all previously published data.

VARIABLE	VALUE	DESCRIPTION
Measured Free Area	7.51 ft ² 48"x48" .70 m ² 122cmx122cm	
Free Area %	47.50 %	Measured Free Area/16ft ²
Air Velocity	1,250.00 fpm @ Beginning Point Of H ₂ O Penetration 381.00 mpm	
Volumetric Air Flow	9,388.00 cfm @ 0.01 oz./ft. ² Free Area 4.43 cms	
Pressure Drop	0.24 In. of H ₂ O @ 0.01 oz./ft. ² Free Area 59.72 pascals	
Air Velocity	951.00 fpm @ Pressure Drop Of: 0.15" H ₂ O 289.86 mpm	37 pascals
Volumetric Air Flow	7,142.00 cfm @ Pressure Drop Of: 0.15" H ₂ O 3.37 cms	

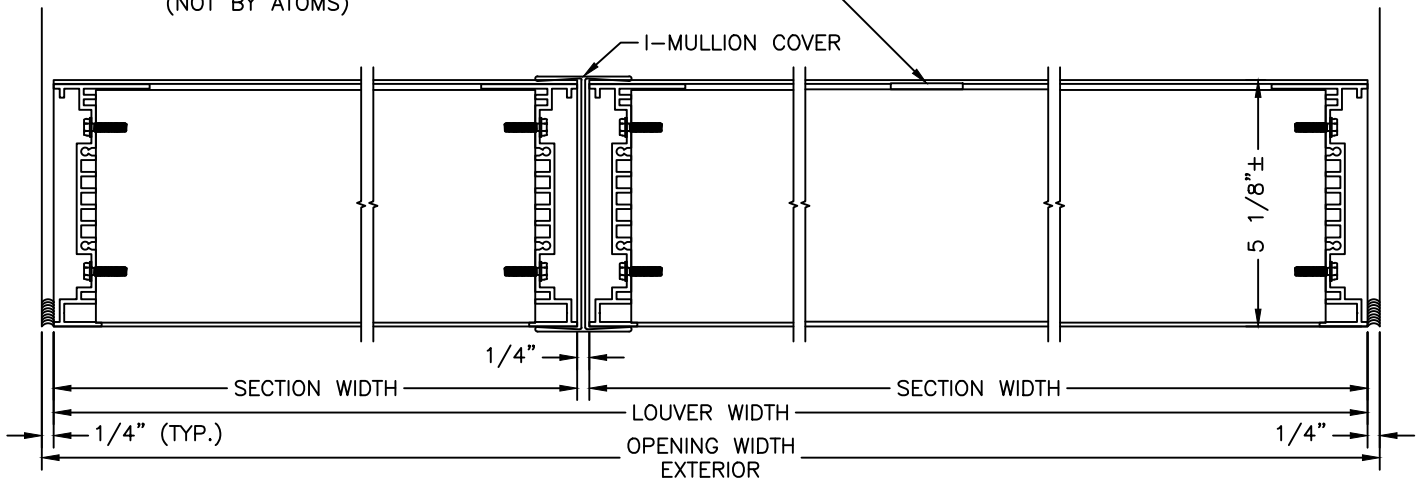
WIND DRIVEN RAIN - CLASS "B" THROUGH CORE AIR VELOCITY OF 678 fpm.



ATOMS AP LLC certifies that louver model APWD-545 shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 511 and comply with the requirements of the AMCA certified ratings program.

The AMCA Certified Ratings Seal Applies to Water Penetration, Air Performance and Wind Driven Rain.

MADE IN THE U.S.A.



FILE: C:\DRAFTING\CUTSHEETS\545-APWD

MATERIAL: JAMB 0.094" (2.388mm) 6063-T5 EXTRUDED ALUMINUM
TOP/BTM 0.081" (2.057mm) 6063-T5 EXTRUDED ALUMINUM
BLADE 0.081" (2.057mm) 6063-T5 EXTRUDED ALUMINUM

REV. DATE: 2/15/17

REV. BY: KRJ

PROJECT:

LOCATION:

ARCHITECT:

CUSTOMER:

CUSTOMER P.O. NO.:

A.A.P. ORDER NO.:

SCALE: 3"=1'

DATE: JUNE 1, 2010

DWN. BY: DSR

APP'VD BY:

APWD-545

SECTION SIZE LIMITS	MAXIMUM WIDTH: 120" HEIGHT: 120"	MINIMUM WIDTH: 12" HEIGHT: 12"	ONE DIMENSION MUST BE 60" OR LESS.
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510 EAST STREET
PARKERSBURG, WV 26101

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Phone: 304-865-0842

Fax: 304-865-0846

Louver Model APWD-545 Performance Ratings

Free Area Chart

— Square feet of free area



Atoms AP LLC certifies that louver model APWD-545 shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 511 and comply with the requirements of the AMCA certified ratings program.



The AMCA Certified Ratings Seal Applies to Water Penetration, Air Performance and Wind Driven Rain.

		Louver width in Inches																		
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
Louver Height in Inches	12	0.32	0.50	0.68	0.87	1.06	1.24	1.42	1.61	1.79	1.98	2.15	2.34	2.53	2.71	2.90	3.07	3.26	3.45	3.63
	18	0.54	0.86	1.18	1.49	1.81	2.12	2.44	2.75	3.06	3.38	3.70	4.01	4.33	4.64	4.96	5.28	5.59	5.90	6.22
	24	0.77	1.22	1.66	2.11	2.56	3.00	3.45	3.89	4.35	4.79	5.24	5.68	6.13	6.57	7.03	7.47	7.92	8.36	8.80
	30	1.00	1.58	2.15	2.73	3.31	3.88	4.47	5.04	5.62	6.20	6.78	7.35	7.93	8.51	9.09	9.66	10.25	10.82	11.39
	36	1.23	1.94	2.65	3.35	4.06	4.77	5.48	6.19	6.90	7.61	8.32	9.02	9.73	10.44	11.15	11.86	12.57	13.28	13.98
	42	1.45	2.29	3.13	3.97	4.81	5.65	6.49	7.33	8.17	9.01	9.85	10.69	11.53	12.37	13.21	14.05	14.89	15.73	16.57
	48	1.68	2.65	3.63	4.59	5.56	6.54	7.51	8.48	9.45	10.43	11.39	12.36	13.34	14.31	15.28	16.26	17.22	19.18	19.17
	54	1.91	3.01	4.11	5.22	6.31	7.42	8.52	9.62	10.73	11.83	12.93	14.03	15.14	16.25	17.34	18.45	19.55	20.65	21.76
	60	2.13	3.37	4.60	5.84	7.07	8.30	9.54	10.77	12.01	13.24	14.48	15.70	16.94	18.17	19.41	20.64	21.88	23.11	24.35
	66	2.36	3.73	5.09	6.45	7.82	9.19	10.55	11.92	13.28	14.64	16.01	17.38	18.75	20.11	21.47	22.84	24.20	25.56	26.94
	72	2.59	4.08	5.58	7.08	8.58	10.07	11.56	13.06	14.56	16.06	17.55	19.05	20.54	22.04	23.54	25.03	26.53	28.02	29.53
	78	2.82	4.45	6.07	7.70	9.33	10.95	12.58	14.21	15.84	17.46	19.09	20.72	22.34	23.97	25.60	27.23	28.85	30.48	32.12
	84	3.04	4.80	6.56	8.32	10.08	11.84	13.60	15.36	17.11	18.87	20.63	22.39	24.15	25.91	27.67	29.43	31.19	32.95	34.70
	90	3.27	5.16	7.05	8.94	10.83	12.72	14.60	16.50	18.39	20.28	22.17	24.06	25.95	27.84	29.73	31.62	33.51	35.40	37.29
	96	3.50	5.51	7.54	9.56	11.58	13.61	15.62	17.65	19.66	21.69	23.71	25.73	27.75	29.77	31.80	33.81	35.84	37.86	39.88
	102	3.73	5.88	8.02	10.18	12.33	14.49	16.64	18.79	20.94	23.09	25.25	27.40	29.56	31.71	33.85	36.01	38.16	40.32	42.47
	108	3.95	6.24	8.52	10.80	13.08	15.37	17.65	19.93	22.22	24.51	26.79	29.07	31.35	33.64	35.92	38.20	40.49	42.78	45.06
	114	4.18	6.59	9.00	11.42	13.83	16.26	18.67	21.08	23.50	25.91	28.33	30.74	33.15	35.57	37.98	40.41	42.82	45.23	47.65
	120	4.41	6.95	9.50	12.05	14.59	17.13	19.68	22.22	24.77	27.32	29.86	32.41	34.96	37.50	40.05	42.60	45.14	47.69	50.24

Water Penetration

Standard Air — .075 lbs/cu ft. ——— Test Unit 48"x48" for 15 minute test

The AMCA Water Penetration test provides a method for comparing various louver models and designs as to their efficiency in resisting the penetration of rainfall under specific laboratory conditions. The beginning point of water penetration is defined as that velocity where the water penetration curve projects through .01 oz of water penetration per square foot of louver free area. These performance ratings do not guarantee a louver to be weather-proof or storm proof and should be used in combination with other factors including good engineering judgement in selecting louvers.

The beginning point of water penetration for model APWD-545 is above 1,250 fpm of free area velocity.

Wind Driven Rain Performance

Test Unit core area — 39 3/8" x 39 3/8"

		Rainfall - @ 3 in per hour External Wind Velocity - @ 29 mph	
Free Area Ventilation Rate - in fpm	Core Area Ventilation Rate - in fpm	Water Penetration Effectiveness %	Water Penetration Classification
0	0		
0	0		
0	0		
0	0		
0	0		
0	0		
1314	586	97.7	B
1521	678	97.3	B
0	0		
0	0		
0	0		

Airflow Pressure Loss

Standard Air — .075 lbs/cu ft. ——— Test Unit 48"x48"

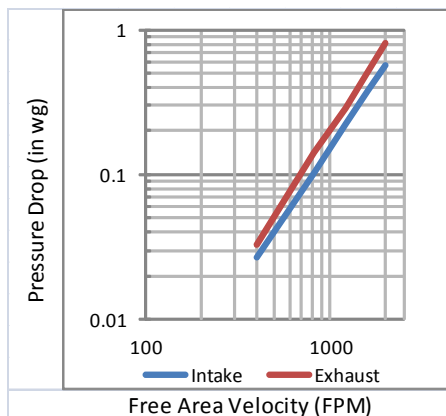


FIGURE 5.5

Discharge Loss coefficient Class (intake) = 2

Discharge Loss Coefficient Classification		Wind Driven Rain Penetration Classes	
Class	Discharge Loss Coefficient	Class	Effectiveness %
1	0.4 and above	A	1.00 to 0.99
2	0.3 to 0.399	B	0.989 to 0.95
3	0.2 to 0.299	C	0.949 to 0.8
4	0.0 to 0.199	D	0.00 to 0.799