

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

This drawing and the design represented are the confidential and proprietary property of ATOMS AP, LLC and may not be disclosed, loaned, copied or used for any purpose other than design review and approval without the express written consent of ATOMS AP, LLC. ATOMS AP, LLC reserves the right to alter the illustrated design solely at its' discretion.

### PERFORMANCE DATA

The data below supersedes all previously published data.

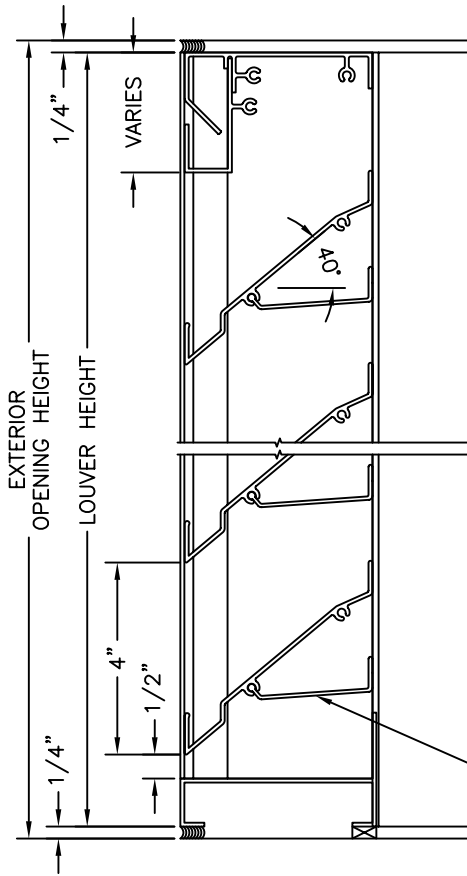
VARIABLE	VALUE	DESCRIPTION
Measured Free Area	9.30 ft <sup>2</sup> 48"x48" 0.86 m <sup>2</sup> 122cmx122cm	
Free Area %	58.13 %	Measured Free Area/16ft <sup>2</sup>
Air Velocity	928.50 fpm @ Beginning Point Of H <sub>2</sub> O Penetration 2.8301 mpm	
Volumetric Air Flow	8,635.05 cfm @ 0.01 oz./ft. <sup>2</sup> Free Area 4.08 cms	
Pressure Drop	0.13 In. of H <sub>2</sub> O @ 0.01 oz./ft. <sup>2</sup> Free Area 32.35 pascals	
Air Velocity	990.00 fpm @ Pressure Drop Of: 0.15" H <sub>2</sub> O 301.75 mpm	37 pascals
Volumetric Air Flow	9,207.00 cfm @ Pressure Drop Of: 0.15" H <sub>2</sub> O 4.35 cms	



ATOMS AP LLC certifies that louver model APED-437 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.

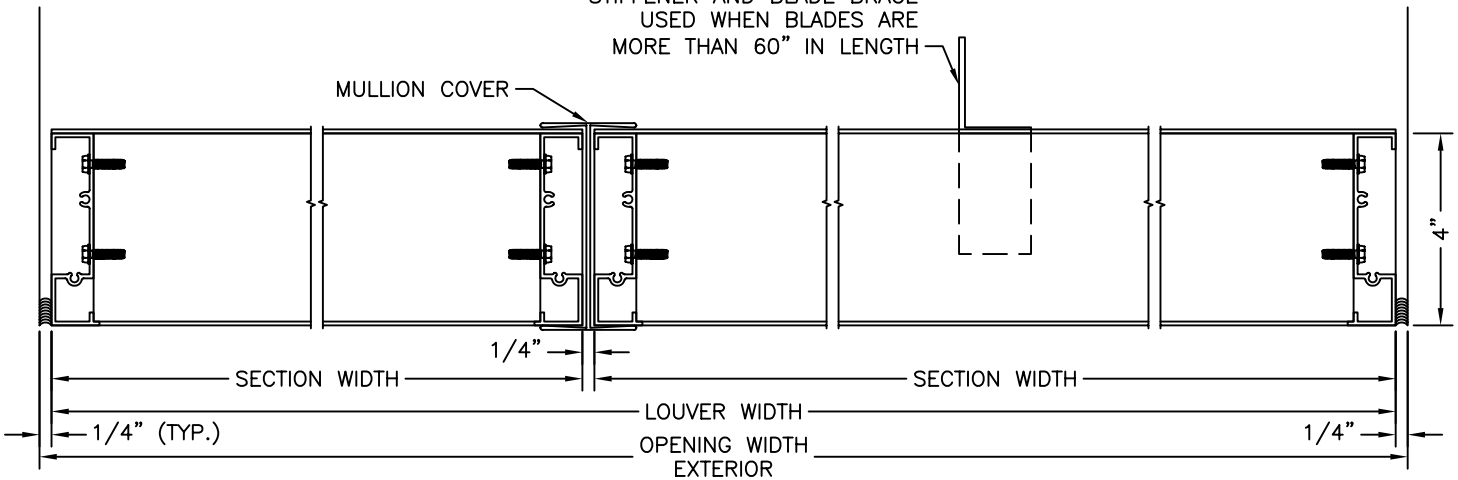
The AMCA Certified Ratings Seal Applies to Water Penetration and Air Performance.

**MADE IN THE U.S.A.**



STIFFENER AND BLADE BRACE  
USED WHEN BLADES ARE  
MORE THAN 60" IN LENGTH

STIFFENER AND BLADE BRACE  
USED WHEN BLADES ARE  
MORE THAN 60" IN LENGTH



FILE: C:\DRAFTING\CUTSHEETS\437-APED

MATERIAL: FRAME 0.081" (2.057mm) 6063-T5 EXTRUDED ALUMINUM  
BLADE 0.081" (2.057mm) 6063-T5 EXTRUDED ALUMINUM

REV. DATE: 7/26/11

REV. BY: DR

PROJECT:

LOCATION:

ARCHITECT:

CUSTOMER:

CUSTOMER P.O. NO.:

A.A.P. ORDER NO.:

SCALE: 3"=1'

DATE: JUNE 30, 2010

DWN. BY: DR

APP'VD BY:

**APED-437**

SECTION SIZE LIMITS	MAXIMUM WIDTH: 120" HEIGHT: 120"	MINIMUM WIDTH: 12" HEIGHT: 12"	ONE DIMENSION MUST BE 60" OR LESS.
---------------------	-------------------------------------	-----------------------------------	------------------------------------

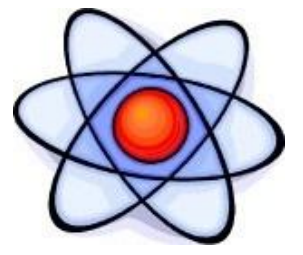


510 EAST STREET  
PARKERSBURG, WV 26101

www.atomsap.net

Phone: 304-865-0842  
Fax: 304-865-0846

# Louver Model APED-437 Performance Ratings



## Free area Chart

- Square feet of free area

Louver Height in Inches	Louver Width in Inches																		
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.34	0.55	0.75	0.95	1.16	1.36	1.57	1.77	1.98	2.18	2.39	2.59	2.80	3.00	3.20	3.41	3.61	3.82	4.02
18	0.62	0.99	1.37	1.74	2.11	2.48	2.86	3.23	3.60	3.98	4.35	4.72	5.09	5.47	5.84	6.21	6.58	6.96	7.33
24	0.90	1.44	1.98	2.52	3.07	3.61	4.15	4.69	5.23	5.77	6.31	6.85	7.39	7.93	8.47	9.01	9.56	10.10	10.64
30	1.18	1.89	2.60	3.31	4.02	4.73	5.44	6.15	6.85	7.56	8.27	8.98	9.69	10.40	11.11	11.82	12.53	13.24	13.94
36	1.46	2.34	3.22	4.09	4.97	5.85	6.73	7.60	8.48	9.36	10.23	11.11	11.99	12.87	13.74	14.62	15.50	16.37	17.25
42	1.74	2.79	3.83	4.88	5.92	6.97	8.01	9.06	10.11	11.15	12.20	13.24	14.29	15.33	16.38	17.42	18.47	19.51	20.56
48	2.02	3.24	4.45	5.66	6.88	8.09	9.30	10.52	11.73	12.94	14.16	15.37	16.59	17.80	19.01	20.23	21.44	22.65	23.87
54	2.30	3.68	5.07	6.45	7.83	9.21	10.59	11.97	13.36	14.74	16.12	17.50	18.88	20.27	21.65	23.03	24.41	25.79	27.17
60	2.58	4.13	5.68	7.23	8.78	10.33	11.88	13.43	14.98	16.53	18.08	19.63	21.18	22.73	24.28	25.83	27.38	28.93	30.48
66	2.86	4.58	6.30	8.02	9.74	11.45	13.17	14.89	16.61	18.33	20.04	21.76	23.48	25.20	26.92	28.63	30.35	32.07	33.79
72	3.14	5.03	6.92	8.80	10.69	12.57	14.46	16.35	18.23	20.12	22.01	23.89	25.78	27.66	29.55	31.44	33.32	35.21	37.10
78	3.42	5.48	7.53	9.59	11.64	13.70	15.75	17.80	19.86	21.91	23.97	26.02	28.08	30.13	32.19	34.24	36.29	38.35	40.40
84	3.70	5.93	8.15	10.37	12.59	14.82	17.04	19.26	21.48	23.71	25.93	28.15	30.37	32.60	34.82	37.04	39.26	41.49	43.71
90	3.98	6.38	8.77	11.16	13.55	15.94	18.33	20.72	23.11	25.50	27.89	30.28	32.67	35.06	37.45	39.84	42.24	44.63	47.02
96	4.26	6.82	9.38	11.94	14.50	17.06	19.62	22.18	24.74	27.29	29.85	32.41	34.97	37.53	40.09	42.65	45.21	47.77	50.32
102	4.55	7.27	10.00	12.73	15.45	18.18	20.91	23.63	26.36	29.09	31.82	34.54	37.27	40.00	42.72	45.45	48.18	50.90	53.63
108	4.83	7.72	10.62	13.51	16.41	19.30	22.20	25.09	27.99	30.88	33.78	36.67	39.57	42.46	45.36	48.25	51.15	54.04	56.94
114	5.11	8.17	11.23	14.30	17.36	20.42	23.49	26.55	29.61	32.68	35.74	38.80	41.87	44.93	47.99	51.06	54.12	57.18	60.25
120	5.39	8.62	11.85	15.08	18.31	21.54	24.77	28.01	31.24	34.47	37.70	40.93	44.16	47.40	50.63	53.86	57.09	60.32	63.55

Atoms AP LLC certifies that louver model APED-437 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 and Air Performance.

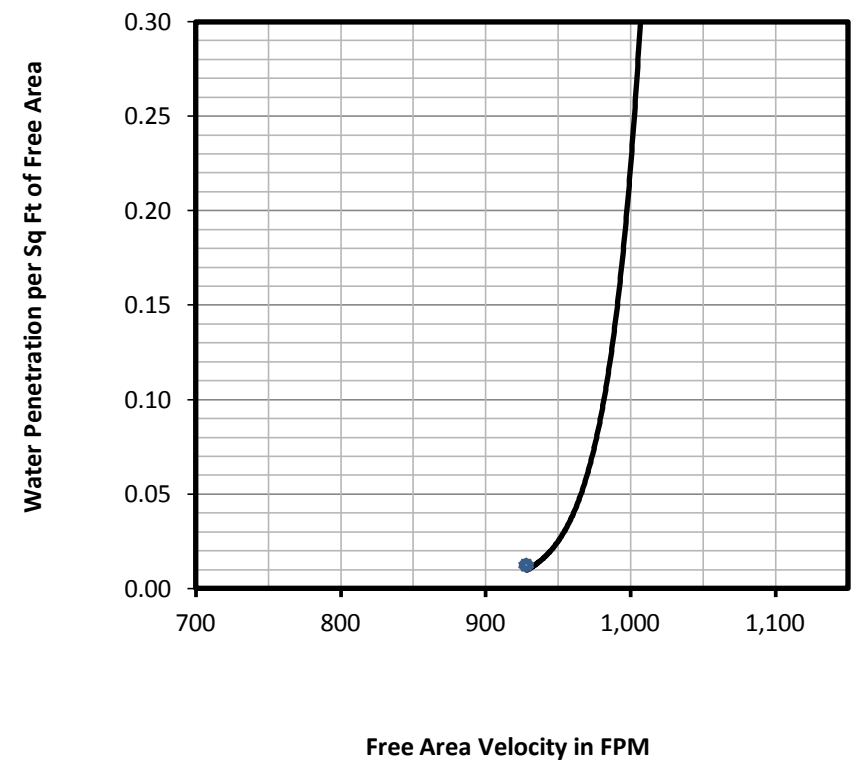
## Water Penetration

Standard Air - .075 lbs / cu ft, ---Test Unit 48" x 48" 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 judgment in selecting louvers.

The beginning point of water penetration for Model APED-437 is 928.5 fpm of free area velocity.

## Water Penetration



## Airflow Pressure Loss

Standard Air - .075 lbs / cu ft, ---Test Unit 48" x 48"

