

# MODEL SP437V

## STANDARD CONSTRUCTION

- Material: Extruded Aluminum 6063-T6
- Frame: 4" (102 mm) Deep, 0.081" (2.1 mm) Wall Thickness
- Blade: 4" (102 mm) Deep, 0.081" (2.1 mm) Wall Thickness
- Blade Spacing: 2" (50.8 mm) On Center
- Sill Flashing: 0.063" (1.6 mm) Formed Aluminum W/ End Dams

## OPTIONAL ACCESSORIES

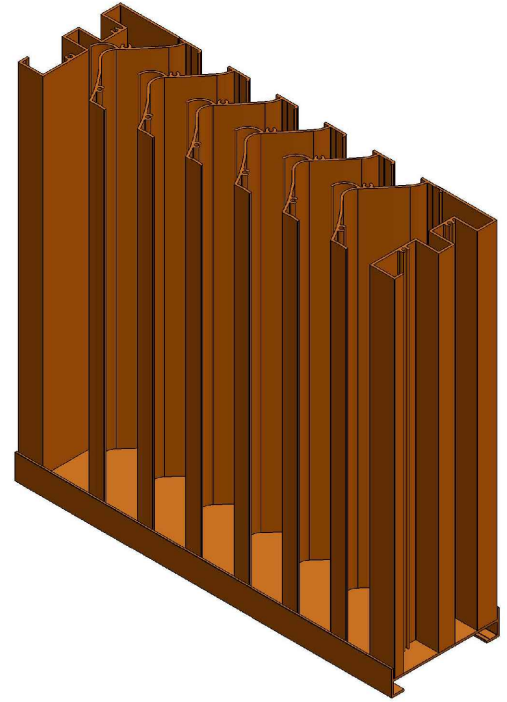
- Bird Screen - 1/2" x 0.063" Flattened Expanded Aluminum
- Insect Screen - 18 x 14 Mesh Charcoal Aluminum
- Extended Sill Flashing
- Insulated & Non-Insulated Blank Off Panels
- Hinged Access Panels

## FINISHES

- 2-Coat Fluoropolymer: Fluoropon Pure® 70% PVDF (AAMA 2605)\*
- 3-Coat Fluoropolymer: Fluoropon Pure® 70% PVDF (AAMA 2605)\*
- Anodic Finishes: Class I & Class II, Clear & Bronze Spectrum
- Prime Coat: Recommended When Field Painting
  - \*Custom Colors Available

## SUGGESTED SPECIFICATIONS

- General: Furnish and install where indicated on drawings  
4" (102 mm) Storm Performance Louver Model SP437V as  
manufactured by Industrial Louvers, Inc. Delano, MN.
- Material: Extruded aluminum frames and blades shall be  
one piece 6063-T6 alloy, designed to collect and drain  
water to the exterior at the sill. Frame shall have a material  
thickness of 0.081" (2.1 mm). Fixed blades shall have a  
material thickness of 0.081" (2.1 mm). Frames and blades  
shall be joined by stainless steel fasteners.



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## PERFORMANCE

- Free Area = 7.12 ft<sup>2</sup> (44.5%)
- Beginning of Water Penetration = 1205 fpm / 8579 cfm
- Air Flow @  $\Delta P$  of 0.15" Water = 594 fpm / 4229 cfm

\*All Ratings Based on 48" x 48" Test Specimen

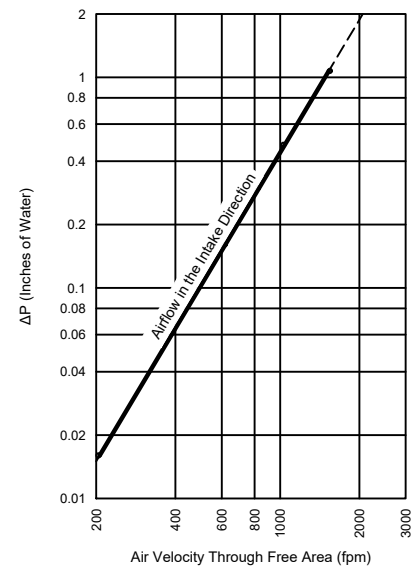
\*Ratings Include the Effect of a Sill Pan

FREE AREA (ft<sup>2</sup>)

Louver Height	120 in	2.48	7.82	13.15	18.50	23.83	29.18
	108 in	2.22	7.02	11.80	16.60	21.39	26.19
	96 in	1.97	6.21	10.45	14.70	18.94	23.19
	84 in	1.71	5.41	9.11	12.81	16.50	20.20
	72 in	1.46	4.61	7.76	10.91	14.05	17.21
	60 in	1.21	3.81	6.41	9.01	11.61	14.22
	48 in	0.95	3.01	5.06	7.12	9.17	11.22
	36 in	0.70	2.21	3.71	5.22	6.72	8.23
	24 in	0.44	1.40	2.36	3.32	4.28	5.24
	12 in	0.19	0.60	1.01	1.42	1.83	2.24
Louver Width		12 in	24 in	36 in	48 in	60 in	72 in

- Effects of blade stiffeners or additional bracing has not been considered.
- Effects of screen or other accessories has not been considered.
- Contact Industrial Louvers for free area of other sizes.
- 1 in = 25.4 mm
- 10.76 ft<sup>2</sup> = 1 m<sup>2</sup>

AIR PERFORMANCE



Data Corrected to Standard Air Density. Tested Per Figure 5.5

WIND DRIVEN RAIN

	Ventilation Air Velocity	0.0 m/s	0.5 m/s	1.0 m/s	1.5 m/s	2.0 m/s	2.5 m/s	3.0 m/s	3.5 m/s
Rainfall Rate: 3 in/hr	Core Velocity	-	-	-	-	-	-	591 fpm	692 fpm
Wind Velocity: 29 mph	Effectiveness	-	-	-	-	-	-	100.0%	99.9%
	Penetration Class	A	A	A	A	A	A	A	A
Rainfall Rate: 8 in/hr	Core Velocity	-	-	-	-	-	483 fpm	592 fpm	700 fpm
Wind Velocity: 50 mph	Effectiveness	-	-	-	-	-	100.0%	99.7%	98.6%
	Penetration Class	A	A	A	A	A	A	A	B

- Discharge Loss Coefficient = 0.18 (Class 4)



Industrial Louvers, Inc. certifies that the Model SP437V 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 air performance ratings, water penetration ratings, and wind-driven rain ratings.

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