



# MODEL SP437

## STANDARD CONSTRUCTION

- **Material:** Extruded Aluminum 6063-T6
- **Frame:** 4" (102 mm) Deep, 0.081" (2.1 mm) Wall Thickness
- **Blade:** 4" (102 mm) Deep, 0.063" (1.6 mm) Wall Thickness
- **Blade Spacing:** 1.75" (44 mm) On Center
- **Sill Flashing:** 0.063" (1.6 mm) Formed Aluminum W/ End Dams

## OPTIONAL ACCESSORIES

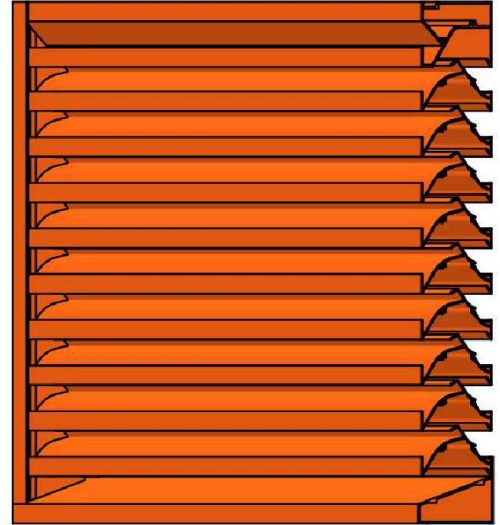
- Bird Screen - 1/2" x 0.063" Flattened Expanded Aluminum
- Insect Screen - 18 x 14 Mesh Charcoal Aluminum
- Extended Sill Flashing
- Insulated & Non-Insulated Blank Off Panels
- Flanged & Glazing Frames
- Visible Mullions
- Invisible Mullions for Continuous Blade Appearance
- Hinged Access Panels

## FINISHES

- **2-Coat Fluoropolymer:** Fluropon Pure® 70% PVDF (AAMA 2605)\*
  - **3-Coat Fluoropolymer:** Fluropon 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 SP437 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 by means of integral gutters in the blades and jamb frames. Frame shall have a material thickness of 0.081" (2.1 mm). Fixed blades shall have a material thickness of 0.063" (1.6 mm). Frames and blades shall be joined by stainless steel fasteners, and frame will be caulked to prevent water penetration to interior wall construction.



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## PERFORMANCE

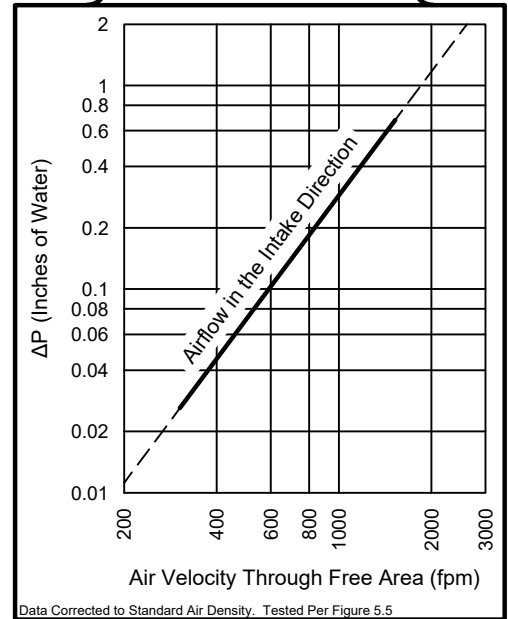
- Free Area = 8.02 ft<sup>2</sup> (50.1%)
  - Beginning Point of Water Penetration = 1250+ fpm / 10,025+ cfm
  - Air Flow @ ΔP of 0.15" Water = 718 fpm / 5758 cfm
- \*All Ratings Based on 48" x 48" Test Specimen  
 \*Ratings Include the Effect of a Sill Pan

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

Louver Height	120 in	4.78	10.25	15.71	21.18	26.64	32.11
	108 in	4.27	9.16	14.04	18.93	23.82	28.70
	96 in	3.77	8.07	12.38	16.68	20.99	25.29
	84 in	3.33	7.14	10.95	14.76	18.57	22.37
	72 in	2.82	6.05	9.28	12.51	15.74	18.97
	60 in	2.32	4.97	7.61	10.26	12.91	15.56
	48 in	1.81	3.88	5.95	8.02	10.09	12.15
	36 in	1.30	2.79	4.28	5.77	7.26	8.75
	24 in	0.80	1.70	2.61	3.52	4.43	5.34
	12 in	0.29	0.62	0.95	1.28	1.61	1.93
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



### 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	-	-	-	-	382 fpm	469 fpm	588 fpm	673 fpm
Wind Velocity: 29 mph	Effectiveness	-	-	-	-	100.0%	99.6%	97.3%	95.0%
	Penetration Class	A	A	A	A	A	A	B	B
Rainfall Rate: 8 in/hr	Core Velocity	0 fpm	91 fpm	190 fpm	278 fpm	404 fpm	497 fpm	566 fpm	690 fpm
Wind Velocity: 50 mph	Effectiveness	97.9%	97.5%	96.9%	96.3%	95.3%	94.6%	93.5%	86.4%
	Penetration Class	B	B	B	B	B	C	C	C



Industrial Louvers, Inc. certifies that the Model SP437 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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