

MODEL SP837

STANDARD CONSTRUCTION

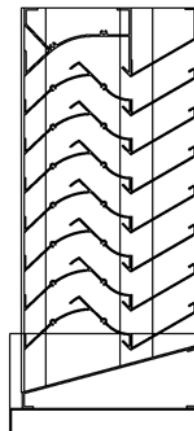
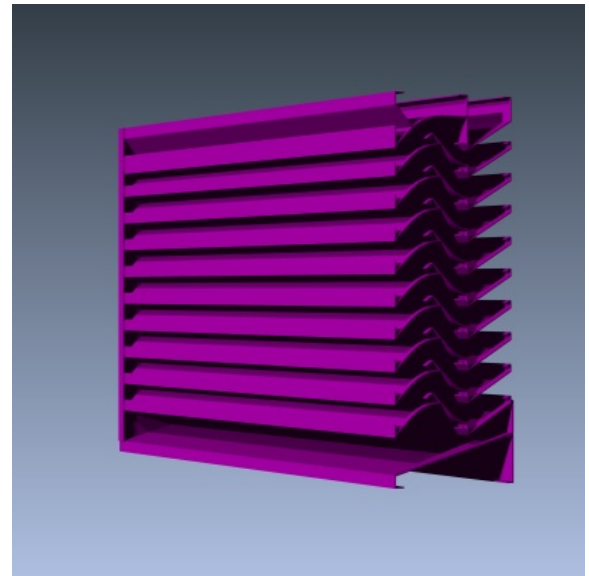
- **Material:** Extruded Aluminum 6063-T6
- **Frame:** 8" (203 mm) deep, .081" (2.1 mm) nominal wall thickness
- **Front Blades:** 5" (127 mm) deep, .063" (1.6 mm) nominal wall thickness
- **Rear Blade:** 3" (76 mm) deep, .063" (1.6 mm) nominal wall thickness
- **Blade Spacing:** 2" (51 mm) on center
- **Screen:** 1/2" x .063" flattened expanded bird screen and/or 18 x 14 mesh charcoal insect screen.
- **Finish:** Mill

OPTIONAL ACCESSORIES

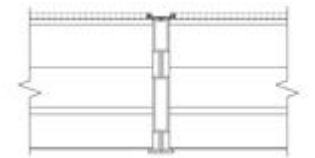
- Extended Sill Flashing
- Insulated and Non-insulated Blank-off Panels
- Flanged & Glazing Frames of various sizes
- Hinged Access Panels
- Sub-frames
- Visible Mullions
- Invisible Mullions for continuous blade appearance

FINISHES

- **2 coat Fluoropolymer:** Kynar® 500 / Hylar® 5000 custom colors available in 70% PVDF (AAMA 2605) or 50% PVDF (AAMA 2604) formulas.
- **3 coat Fluoropolymer:** Kynar 500 / Hylar 5000 custom colors available in 70% PVDF (AAMA 2605) formulas.
- **Anodic finishes:** Class I and Class II in Clear, Light/Medium/Dark Bronze, Champagne, and Black.
- **Prime coat**
- **Mill**



Vertical Section



Visible Vertical Mullion



Plan View

Qty.	Size:		Mullion Type	No. of Sections	Notes
	Actual <input type="checkbox"/>	M.O. <input type="checkbox"/>			
	Width	Height			
<input type="checkbox"/>	Sill flashing:		Project:		
<input type="checkbox"/>	Screen:		Location:		
<input type="checkbox"/>	Finish:		Architect:		
	Color:		Representative:		
<input type="checkbox"/>	Other:		Date:	Job #:	



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SUGGESTED SPECIFICATIONS

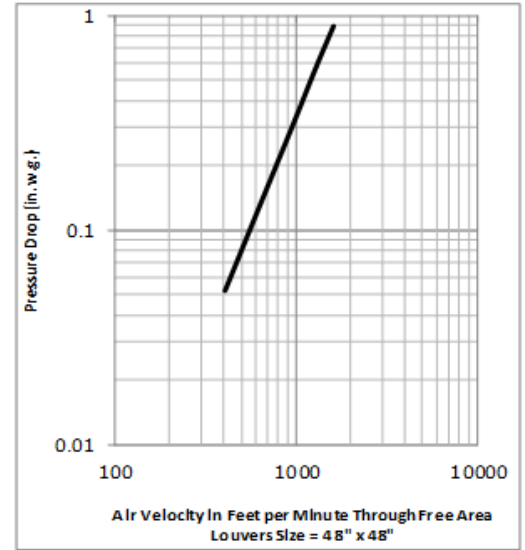
General: Furnish and install where indicated on drawings 8" (203mm) Storm Performance Louver Model SP837 as manufactured by Industrial Louvers, Inc., Delano, MN.

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 .081" (2.1mm). Fixed front blades shall have a material thickness of .063" (1.6mm). Fixed rear blades shall have a material thickness of .063" (1.6mm). Frames and blades shall be joined by stainless steel mechanical fastener, and frame will be caulked to prevent water penetration to interior wall construction.

Performance

- Free area (4' x 4' louver) = 8.08 sq. ft. (50.5%)
- Pressure drop @ 678.7 FPM velocity = .15" water
- Air volume @ 678.7 FPM free area velocity = 5,483.90 CFM

Air Performance Chart



Free Area

Square Feet (Square Meters)						
Free Area AMCA Licensed for openings up to 72" x 120"						
For free area data for larger openings, contact factory.						
3048.0	0.45	0.97	1.49	2.00	2.52	3.04
120	4.83	10.41	16.00	21.58	27.16	32.75
2743.2	0.40	0.87	1.34	1.81	2.27	2.74
108	4.35	9.38	14.42	19.45	24.48	29.51
2438.4	0.36	0.78	1.19	1.61	2.03	2.44
96	3.87	8.36	12.84	17.32	21.80	26.28
2133.6	0.31	0.66	1.02	1.38	1.73	2.09
84	3.32	7.15	10.99	14.83	18.67	22.50
1828.8	0.26	0.57	0.87	1.18	1.48	1.79
72	2.84	6.13	9.41	12.70	15.98	19.27
1524	0.21	0.46	0.70	0.95	1.19	1.44
60	2.28	4.93	7.57	10.21	12.85	15.49
1219.2	0.17	0.36	0.56	0.75	0.94	1.14
48	1.81	3.90	5.99	8.08	10.17	12.26
914.4	0.12	0.27	0.41	0.55	0.70	0.84
36	1.33	2.87	4.41	5.95	7.49	9.02
609.6	0.07	0.16	0.24	0.32	0.40	0.49
24	0.77	1.67	2.56	3.46	4.35	5.25
304.8	0.03	0.06	0.09	0.12	0.16	0.19
12	0.30	0.64	0.98	1.33	1.67	2.01
H/W	304.8	609.6	914.4	1219	1524	1829
	12	24	36	48	60	72

Wind Driven Rain Chart

Rainfall rate of 3" per hour (76 mm) and a wind velocity of 29 mph (47 kph).				
Ventilation Air Velocity (m/s)	Core Ventilation Rate (fpm)	Free Area Ventilation Rate (fpm)	Rating Effectiveness	Class
0.0			100.0%	A
0.5			100.0%	A
1.0			100.0%	A
1.5			100.0%	A
2.0			100.0%	A
2.5			100.0%	A
3.0	584	1033	100.0%	A
3.5	689	1219	98.6%	B
Effectiveness Rating	A = 1 to 0.99	B = 0.989 to 0.95	C = 0.949 to 0.080	D = 0.80 to 0

Discharge Loss Coefficient Class (Intake) = 3

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

