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## MODEL SP837

### STANDARD CONSTRUCTION

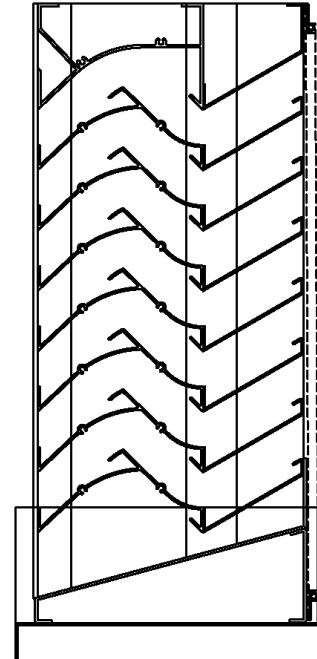
- **Material:** Extruded Aluminum 6063-T6
- **Frame:** 8" (203 mm) deep, .081" (2.1 mm) nominal wall thickness
- **Front Blades:** 5" (127 mm) deep, .063" (1.6 mm) nominal wall thickness
- **Rear Blade:** 3" (76 mm) deep, .063" (1.6 mm) nominal wall thickness
- **Blade Spacing:** 2" (51 mm) on center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

### OPTIONAL ACCESSORIES

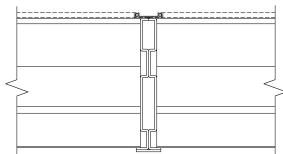
- Extended Sill Flashing
- Insulated and Non-insulated Blank-off Panels
- Flanged & Glazing Frames of various sizes
- Hinged Access Panels
- Sub-frames
- Visible Mullions
- Invisible Mullions for continuous blade appearance

### FINISHES

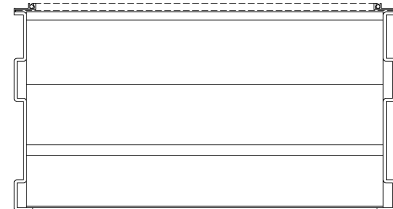
- **2 Coat Fluoropolymer:** Kynar 500 / Hylar 5000 custom colors available in 70% PVDF (AAMA 2605) or 50% PVDF (AAMA 2604) formulas.
- **3 Coat Fluoropolymer:** Kynar 500 / Hylar 5000 custom colors available in 70% PVDF (AAMA 2605) formulas.
- **Anodic Finishes:** Class I and Class II in Clear, Light/Medium/Dark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



Vertical Section



Visible Vertical Mullion



Plan View

Qty	Size: Actual <input type="checkbox"/> M.O. <input type="checkbox"/>		MULLION TYPE	NO. OF SECTIONS	NOTES
	WIDTH	HEIGHT			
<input type="checkbox"/>	SILL FLASHING:				PROJECT:
<input type="checkbox"/>	SCREEN:				LOCATION:
<input type="checkbox"/>	FINISH:				ARCHITECT:
<input type="checkbox"/>	COLOR:				REPRESENTATIVE:
<input type="checkbox"/>	OTHER:				DATE:                      JOB #:

# MODEL SP837

## 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.

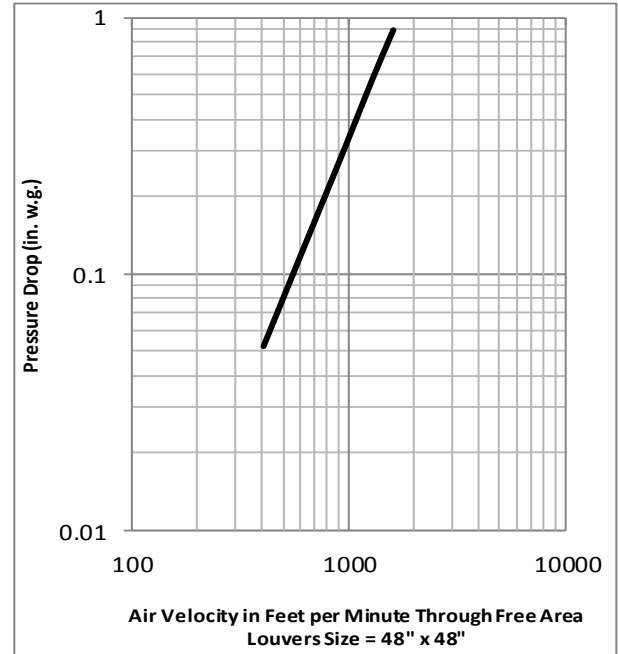
### Performance

- 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

## Free Area

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

## Air Performance Chart



## 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			99.9%	A
0.5			99.9%	A
1.0			99.9%	A
1.5			99.9%	A
2.0			99.9%	A
2.5			99.9%	A
3.0	584	1033	99.9%	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 0.80	D = 0.80 to 0
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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