

# MODEL SP437

## STANDARD CONSTRUCTION

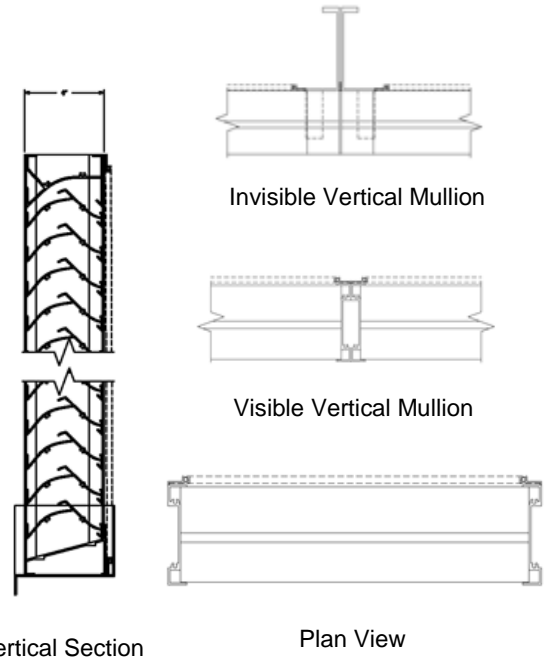
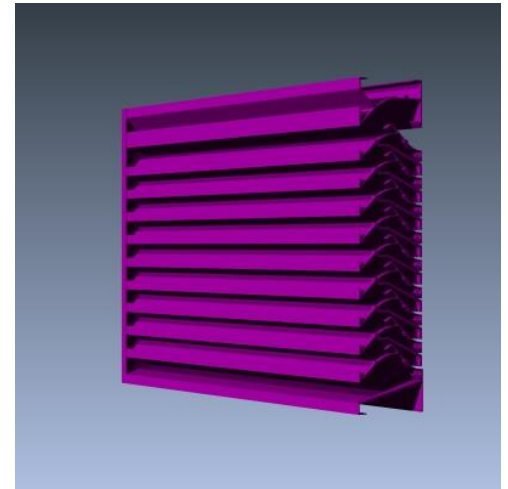
- **Material:** Extruded Aluminum 6063-T6
- **Frame:** 4" (102 mm) deep, .081" (2.1 mm) nominal wall thickness
- **Blades:** 4" (102 mm) deep, .063" (1.6 mm) nominal wall thickness
- **Blade Spacing:** 1.75" (44.4 mm) on center
- **Finish:** Mill

## OPTIONAL ACCESSORIES

- Screen: 1/2" x .063" flattened expanded bird screen and/or 18 x 14 mesh charcoal insect screen.
- 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 custom colors available in 70% PVDF (AAMA 2605). Living Building Challenge (LBC) Red List Free.
- **3 coat Fluoropolymer:** Kynar 500 / Hylar 5000 custom colors available in 70% PVDF (AAMA 2605). LBC Red List Free.
- **Anodic finishes:** Class I and Class II in Clear, Light/Medium/Dark Bronze, Champagne, and Black.
- **Prime coat**



Qty.	Size:		Mullion Type	No. of Sections	Notes
	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 #:	



# MODEL SP437

## SUGGESTED SPECIFICATIONS

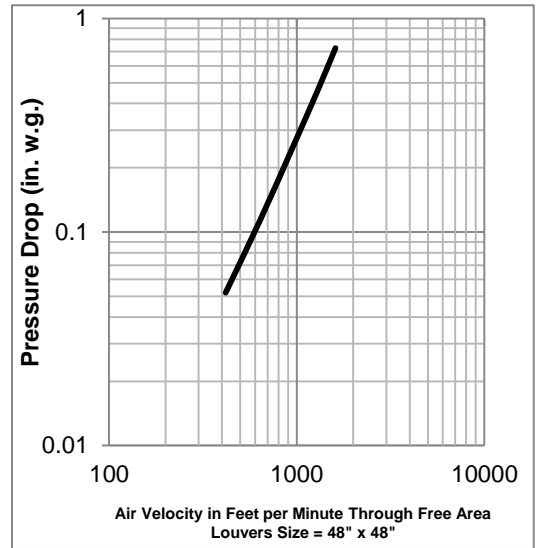
**General:** Furnish and install where indicated on drawings 4" (102mm) Storm Performance Louver Model SP437 as manufactured by Industrial Louvers, Inc. Delano, MN.

**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 .081" (2.1mm). Fixed 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) = 8.02 sq. ft. (50.1%)
- Free area velocity at point of beginning water penetration (.01 oz/sq. ft.) = 1,250 fpm
- Pressure drop @ 718.4 FPM velocity = .15" water
- Air volume @ 718.4 FPM free area velocity = 5,761.57 CFM

## Air Performance Chart

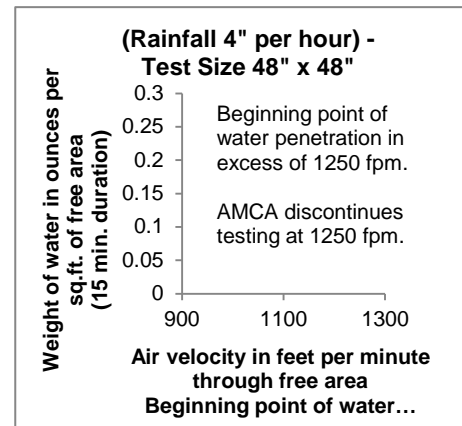


The AMCA Certified Ratings Seal applies to Air Capacities in the intake model only. Data corrected to standard air density Tested to AMCA 500-L, Figure 5.6

## 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	0.44	0.95	1.46	1.97	2.48	2.98
<b>120</b>	<b>4.78</b>	<b>10.25</b>	<b>15.71</b>	<b>21.18</b>	<b>26.64</b>	<b>32.11</b>
2743.2	0.40	0.85	1.30	1.76	2.21	2.67
<b>108</b>	<b>4.27</b>	<b>9.16</b>	<b>14.04</b>	<b>18.93</b>	<b>23.82</b>	<b>28.70</b>
2438.4	0.35	0.75	1.15	1.55	1.95	2.35
<b>96</b>	<b>3.77</b>	<b>8.07</b>	<b>12.38</b>	<b>16.68</b>	<b>20.99</b>	<b>25.29</b>
2133.6	0.31	0.66	1.02	1.37	1.72	2.08
<b>84</b>	<b>3.33</b>	<b>7.14</b>	<b>10.95</b>	<b>14.76</b>	<b>18.57</b>	<b>22.37</b>
1828.8	0.26	0.56	0.86	1.16	1.46	1.76
<b>72</b>	<b>2.82</b>	<b>6.05</b>	<b>9.28</b>	<b>12.51</b>	<b>15.74</b>	<b>18.97</b>
1524	0.22	0.46	0.71	0.95	1.20	1.45
<b>60</b>	<b>2.32</b>	<b>4.97</b>	<b>7.61</b>	<b>10.26</b>	<b>12.91</b>	<b>15.56</b>
1219.2	0.17	0.36	0.55	0.74	0.94	1.13
<b>48</b>	<b>1.81</b>	<b>3.88</b>	<b>5.95</b>	<b>8.02</b>	<b>10.09</b>	<b>12.15</b>
914.4	0.12	0.26	0.40	0.54	0.67	0.81
<b>36</b>	<b>1.30</b>	<b>2.79</b>	<b>4.28</b>	<b>5.77</b>	<b>7.26</b>	<b>8.75</b>
609.6	0.07	0.16	0.24	0.33	0.41	0.50
<b>24</b>	<b>0.80</b>	<b>1.70</b>	<b>2.61</b>	<b>3.52</b>	<b>4.43</b>	<b>5.34</b>
304.8	0.03	0.06	0.09	0.12	0.15	0.18
<b>12</b>	<b>0.29</b>	<b>0.62</b>	<b>0.95</b>	<b>1.28</b>	<b>1.61</b>	<b>1.93</b>
<b>H/W</b>	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>

## Water Penetration Chart



## Wind Driven Rain Chart

		Rainfall rate of 3" per hour (76 mm) and a wind velocity of 29 mph (47 kph).		Rainfall rate of 8" per hour (76 mm) and a wind velocity of 50 mph (47 kph).		
Ventilation Air Velocity (m/s)	Core Velocity (fpm)	Rating Effectiveness	Class	Core Velocity (fpm)	Rating Effectiveness	Class
0.0		100.0%	A		97.9%	B
0.5		100.0%	A	91	97.5%	B
1.0		100.0%	A	190	96.9%	B
1.5		100.0%	A	278	96.3%	B
2.0	382	100.0%	A	404	95.3%	B
2.5	469	99.6%	A	497	94.6%	C
3.0	588	97.3%	B	566	93.5%	C
3.5	673	95.0%	B	690	86.4%	C
<b>Effectiveness Rating</b>	<b>A = 1 to 0.99</b>		<b>B = 0.989 to 0.95</b>		<b>C = 0.949 to 0.080</b>	
	<b>D = 0.80 to 0</b>					



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