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## MODEL SP737

### STANDARD CONSTRUCTION

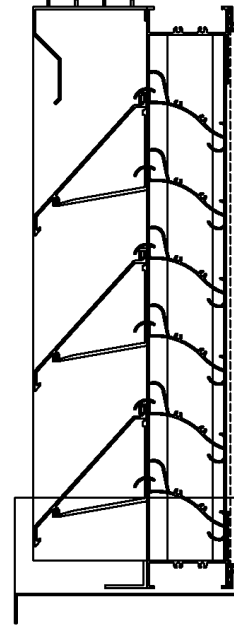
- **Material:** Extruded Aluminum 6063-T6
- **Frame:** 7" (178 mm) deep, .081" (2.1 mm) nominal wall thickness
- **Front Blades:** 4" (102 mm) deep, .081" (2.1 mm) nominal wall thickness
- **Rear Blade:** 3" (76 mm) deep, .063" (1.6 mm) nominal wall thickness
- **Blade Spacing:** 5.5" (140 mm) on center
- **Screen:** 1/2" x .063" flattened expanded bird screen and/or 18 x 14 mesh charcoal insect screen.
- **Finish:** Mill

### OPTIONAL ACCESSORIES

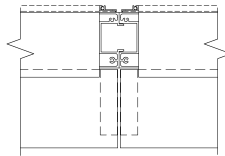
- Extended Sill Flashing
- Insulated and Non-insulated Blank-off Panels
- Flanged & Glazing Frames of various sizes
- Hinged Access Panels
- Sub-frames
- Visible Mullions
- Invisible Mullions for continuous blade appearance

### FINISHES

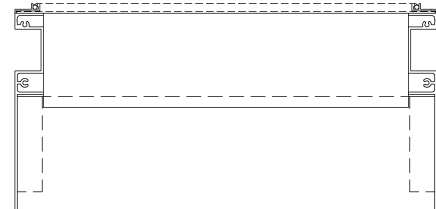
- **2 Coat Fluoropolymer:** Kynar 500 / Hylar 5000 custom colors available in 70% PVDF (AAMA 2605) or 50% PVDF (AAMA 2604) formulas.
- **3 Coat Fluoropolymer:** Kynar 500 / Hylar 5000 custom colors available in 70% PVDF (AAMA 2605) formulas.
- **Anodic Finishes:** Class I and Class II in Clear, Light/Medium/Dark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



Vertical Section



Invisible 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:
	COLOR:				REPRESENTATIVE:
<input type="checkbox"/>	OTHER:				DATE:                      JOB #:

# MODEL SP737

## SUGGESTED SPECIFICATIONS

**General:** Furnish and install where indicated on drawings 7" (178mm) Storm Performance Louver Model SP737 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 .081" (2.1mm). 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) = 7.09 sq. ft. (44.3%)
- Free area velocity at point of beginning water penetration (.01 oz/sq. ft.) = 813.2 fpm
- Pressure drop @ 724.3 FPM velocity = .15" water
- Air volume @ 724.3 FPM free area velocity = 5,135.29 CFM

## 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	0.38	0.85	1.32	1.79	2.26	2.73
<b>120</b>	<b>4.11</b>	<b>9.17</b>	<b>14.23</b>	<b>19.30</b>	<b>24.36</b>	<b>29.42</b>
2743.2	0.34	0.75	1.17	1.58	2.00	2.41
<b>108</b>	<b>3.63</b>	<b>8.10</b>	<b>12.57</b>	<b>17.03</b>	<b>21.50</b>	<b>25.97</b>
2438.4	0.30	0.67	1.04	1.41	1.79	2.16
<b>96</b>	<b>3.24</b>	<b>7.24</b>	<b>11.23</b>	<b>15.23</b>	<b>19.22</b>	<b>23.21</b>
2133.6	0.26	0.57	0.89	1.20	1.52	1.84
<b>84</b>	<b>2.76</b>	<b>6.16</b>	<b>9.56</b>	<b>12.97</b>	<b>16.37</b>	<b>19.77</b>
1828.8	0.22	0.49	0.76	1.04	1.31	1.58
<b>72</b>	<b>2.38</b>	<b>5.30</b>	<b>8.23</b>	<b>11.16</b>	<b>14.08</b>	<b>17.01</b>
1524	0.19	0.41	0.64	0.87	1.10	1.32
<b>60</b>	<b>1.99</b>	<b>4.44</b>	<b>6.90</b>	<b>9.35</b>	<b>11.80</b>	<b>14.25</b>
1219.2	0.14	0.31	0.49	0.66	0.83	1.00
<b>48</b>	<b>1.51</b>	<b>3.37</b>	<b>5.23</b>	<b>7.09</b>	<b>8.95</b>	<b>10.81</b>
914.4	0.10	0.23	0.36	0.49	0.62	0.75
<b>36</b>	<b>1.13</b>	<b>2.51</b>	<b>3.90</b>	<b>5.28</b>	<b>6.66</b>	<b>8.05</b>
609.6	0.07	0.15	0.24	0.32	0.41	0.49
<b>24</b>	<b>0.74</b>	<b>1.65</b>	<b>2.56</b>	<b>3.47</b>	<b>4.38</b>	<b>5.29</b>
<b>304.8</b>	0.02	0.05	0.08	0.11	0.14	0.17
<b>12</b>	<b>0.26</b>	<b>0.58</b>	<b>0.89</b>	<b>1.21</b>	<b>1.53</b>	<b>1.85</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>

## Wind Driven Rain Chart

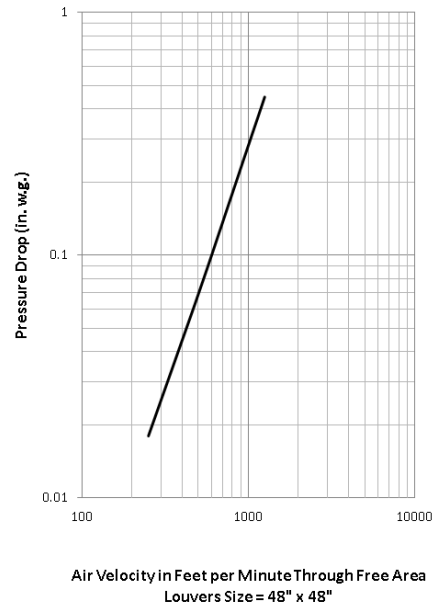
Ventilation Air Velocity (m/s)	Rainfall rate of 3" per hour (76 mm) and a wind velocity of 29 mph (47 kph).			Rainfall rate of 8" per hour (76 mm) and a wind velocity of 50 mph (47 kph).		
	Core Velocity (fpm)	Rating Effectiveness	Class	Core Velocity (fpm)	Rating Effectiveness	Class
0.0		99.8%	A		98.5%	B
0.5	98	99.3%	A	116	97.4%	B
1.0	188	99.2%	A	209	96.8%	B
1.5	281	97.8%	B	297	95.6%	B
2.0	382	96.2%	B	404	93.6%	C
2.5	491	90.9%	C	494	91.7%	C
3.0	575	87.3%	C	571	88.0%	C
3.5	676	88.3%	C	678	76.8%	D

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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Industrial Louvers, Inc. certifies that Model SP737 shown hereon 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 and wind driven rain.

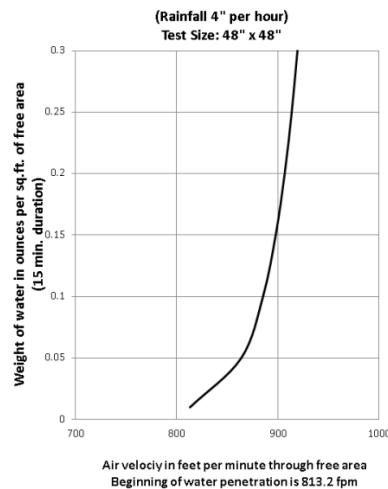
## Air Performance Chart



The AMCA Certified Ratings Seal applies to Air Capacities in the intake model only.

Data corrected to standard air density  
Tested to AMCA Figure 5.6

## Water Penetration Chart



Air velocity in feet per minute through free area  
Beginning of water penetration is 813.2 fpm