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## MODEL 680A

### STANDARD CONSTRUCTION

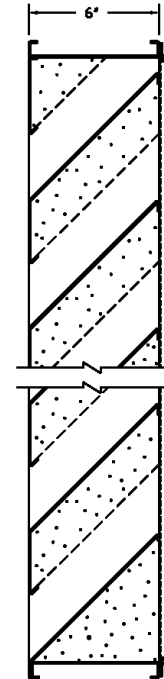
- **Material:** Formed Aluminum 5005-H34
- **Frame:** 6" (152mm) deep, .081" (2.1mm) nominal wall thickness
- **Blades:** 6" (152mm) deep, .081" (2.1mm) nominal wall thickness
- **Absorbent Material:** 8 lb Mineral Wool
- **Blade Spacing:** 6.213" (158mm) on center
- **Screen:** 1/2" x .063" flattened expanded bird screen and/or 18 x 14 mesh charcoal insect screen.
- **Finish:** Mill

### OPTIONAL ACCESSORIES

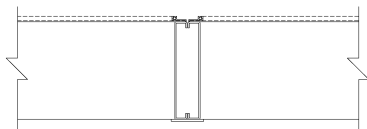
- Extended Sill Flashing
- Insulated and Non-insulated Blank-off Panels
- Flanged & Glazing Frames of various sizes
- Hinged Access Panels
- Sub-frames
- Visible Mullions

### FINISHES

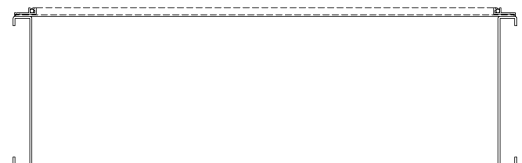
- **2 Coat Fluoropolymer:** Kynar 500 / Hylar 5000 custom colors available in 70% PVDF (AAMA 2605) or 50% PVDF (AAMA 2604) formulas.
- **3 Coat Fluoropolymer:** Kynar 500 / Hylar 5000 custom colors available in 70% PVDF (AAMA 2605) formulas.
- **Anodic Finishes:** Class I and Class II in Clear, Light/Medium/Dark 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 680A

## SUGGESTED SPECIFICATIONS

**General:** Furnish and install where indicated on drawings 6" (102mm) Acoustical Louver Model 680A as manufactured by Industrial Louvers, Inc., Delano, MN.

**Material:** Formed aluminum frames and blades shall be one piece 5005-H34 alloy. Frame shall have a material thickness of .081" (2.1mm). Fixed blades shall have a material thickness of .081" (2.1mm). The interior face of the blade shall be .032" perforated aluminum sheet. Frames and blades shall be joined by welding, and frame will be caulked to prevent water penetration to interior wall construction.

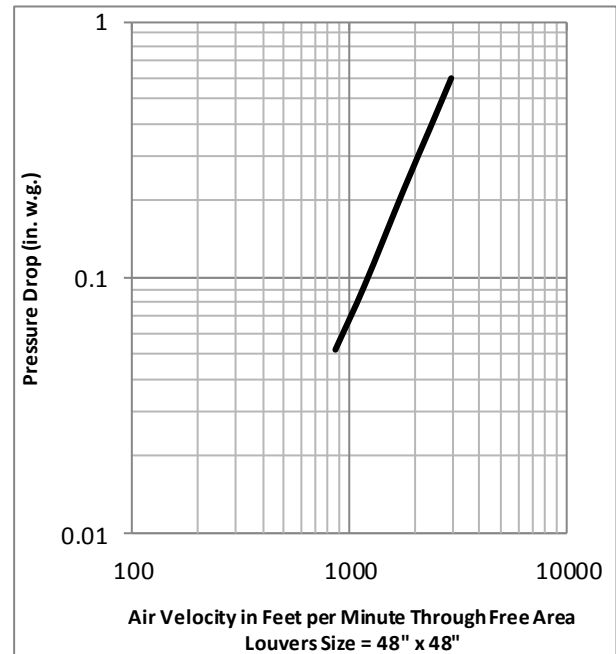
### Performance

- Free area (4' x 4' louver) = 4.45 sq. ft. (27.8%)
- Free area velocity at point of beginning water penetration (.01 oz/sq. ft.) = 967 fpm
- Pressure drop @ 1471.2 FPM velocity = .15" water
- Air volume @ 1471.2 FPM free area velocity = 6,546.84 CFM

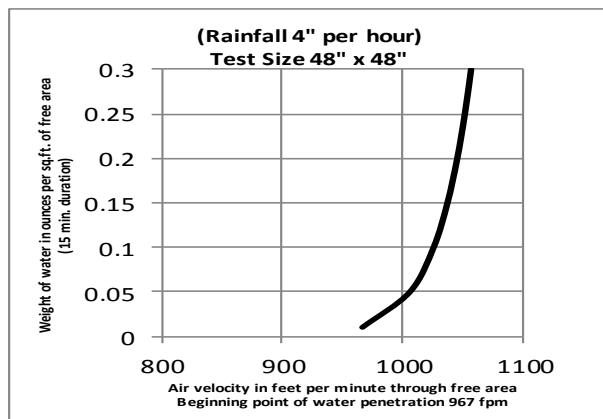
## Free Area

Square Feet (Square Meters)						
For free area data for larger openings, contact factory.						
3048.0	0.24	0.54	0.83	1.13	1.42	1.71
<b>120</b>	<b>2.63</b>	<b>5.80</b>	<b>8.96</b>	<b>12.12</b>	<b>15.28</b>	<b>18.44</b>
2743.2	0.22	0.48	0.74	1.01	1.27	1.53
<b>108</b>	<b>2.36</b>	<b>5.18</b>	<b>8.01</b>	<b>10.84</b>	<b>13.67</b>	<b>16.50</b>
2438.4	0.19	0.42	0.66	0.89	1.12	1.35
<b>96</b>	<b>2.08</b>	<b>4.57</b>	<b>7.07</b>	<b>9.56</b>	<b>12.06</b>	<b>14.55</b>
2133.6	0.17	0.37	0.57	0.77	0.97	1.17
<b>84</b>	<b>1.80</b>	<b>3.96</b>	<b>6.12</b>	<b>8.29</b>	<b>10.45</b>	<b>12.61</b>
1828.8	0.14	0.31	0.48	0.65	0.82	0.99
<b>72</b>	<b>1.52</b>	<b>3.35</b>	<b>5.18</b>	<b>7.01</b>	<b>8.84</b>	<b>10.66</b>
1524	0.12	0.25	0.39	0.53	0.67	0.81
<b>60</b>	<b>1.25</b>	<b>2.74</b>	<b>4.24</b>	<b>5.73</b>	<b>7.23</b>	<b>8.72</b>
1219.2	0.09	0.20	0.31	0.41	0.52	0.63
<b>48</b>	<b>0.97</b>	<b>2.13</b>	<b>3.29</b>	<b>4.45</b>	<b>5.61</b>	<b>6.78</b>
914.4	0.06	0.14	0.22	0.29	0.37	0.45
<b>36</b>	<b>0.69</b>	<b>1.52</b>	<b>2.35</b>	<b>3.17</b>	<b>4.00</b>	<b>4.83</b>
609.6	0.04	0.08	0.13	0.18	0.22	0.27
<b>24</b>	<b>0.41</b>	<b>0.91</b>	<b>1.40</b>	<b>1.90</b>	<b>2.39</b>	<b>2.89</b>
<b>304.8</b>	0.01	0.03	0.04	0.06	0.07	0.09
<b>12</b>	<b>0.13</b>	<b>0.30</b>	<b>0.46</b>	<b>0.62</b>	<b>0.78</b>	<b>0.94</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



## Water Penetration Chart



## Sound Transmission Chart

Selected 1/3 Octave Bands Center Frequency HZ	125	250	500	1000	2000	4000	5000
Transmission Loss In Decibels	6	4	7	13	16	14	13
Free Field Noise	12	10	13	19	22	20	19