

# Air Flow Company, Inc.

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## EA-613HP

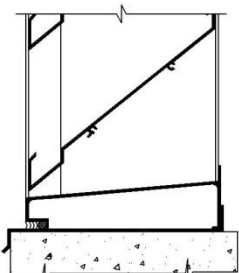
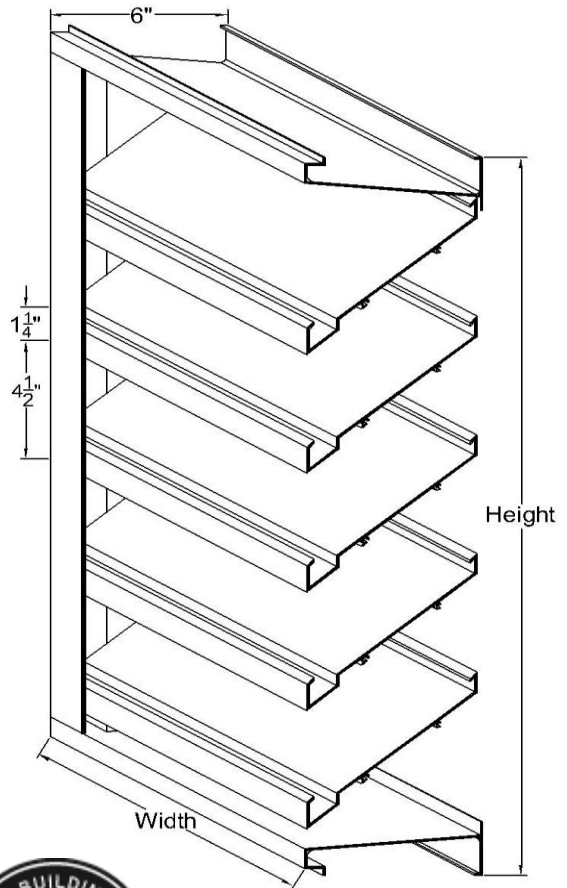
6" Deep, High Performance Drainable Blade Louver

### Standard Louver Construction

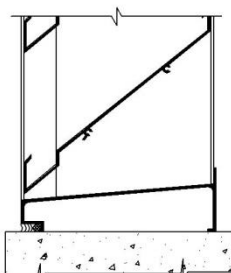
✓ <b>Frame</b>	Channel
✓ <b>Frame Thickness</b>	.081" extruded aluminum 6063-T5
✓ <b>Blades Thickness</b>	.081" extruded aluminum 6063-T5
✓ <b>Blade Positioning</b>	39° angle with 4-½" spacing center to center
✓ <b>Fasteners</b>	3/16" plated steel screw
✓ <b>Screen</b>	.050" x ¾" expanded aluminum without frame
✓ <b>Finish</b>	Mill
✓ <b>Undersized</b>	¼" under opening sizes
✓ <b>Mullions</b>	Invisible
✓ <b>Minimum Size</b>	12" x 12"
✓ <b>Maximum Single Section</b>	120" x 84" or 84" x 120

### Optional Construction

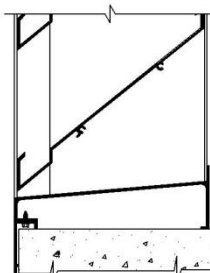
<b>Frames</b>	Channel .125" extruded aluminum 6063-T5		
<b>Blades</b>	.125" extruded aluminum 6063-T5		
<b>Fasteners</b>	Welded Construction		
	Stainless Steel Fasteners		
<b>Screen</b>	.063" x ½" wire mesh Bird Screen		
	18 x 16 Insect screen		
<b>Finish</b>	Prime coat		
	Baked enamel		
	Powder coat		
	Kynar 500	2 Coat	3 Coat
	Anodized	Clear	Color
<b>Mullions</b>	Visible		
<b>Frame Accessories</b>	Flange		
	Pan		
	Extended sill		



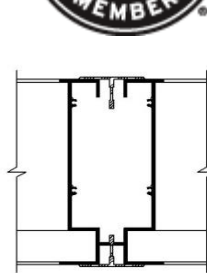
Channel W/sill



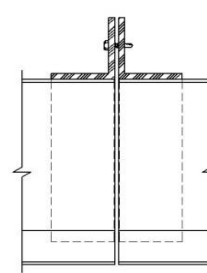
Channel Frame



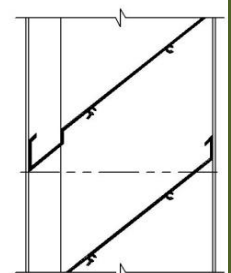
Flanged (1-1/2")



Exposed Mullion



Invisible Mullion



Hor. Invisible Mullion

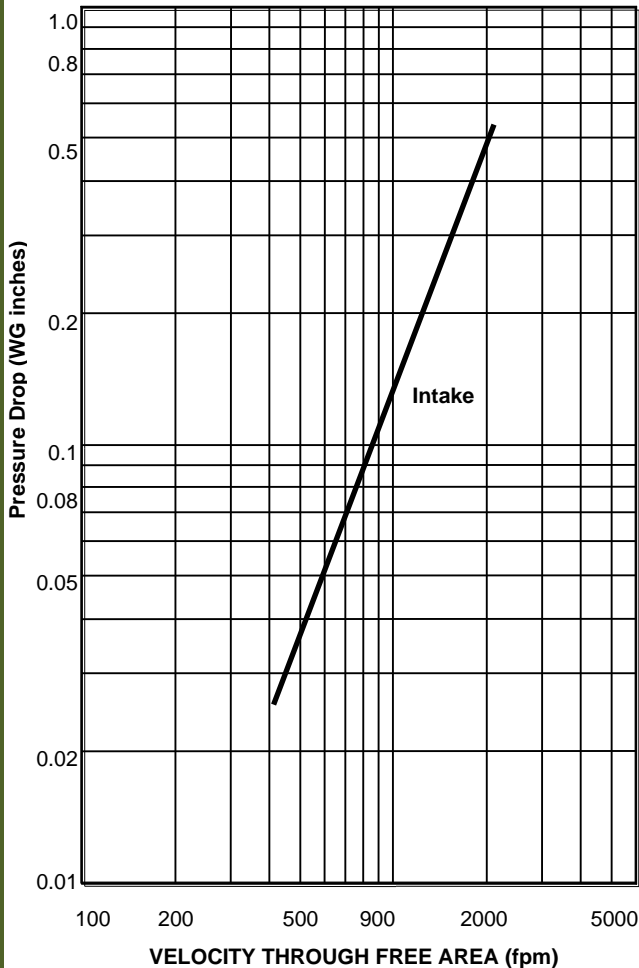
### Louver Schedule

Item	Qty	Opening Size (W x H)	Notes	Project:
				<b>Location:</b>
				<b>Arch/Eng:</b>
				<b>Customer:</b>

### Free Area Calculations (sq. ft.)

		WIDTH (inches)														
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
HEIGHT (inches)	12	0.32	0.50	0.69	0.87	1.06	1.24	1.42	1.61	1.79	1.97	2.16	2.34	2.52	2.71	2.89
	18	0.55	0.86	1.17	1.49	1.80	2.11	2.42	2.74	3.05	3.36	3.67	3.99	4.30	4.61	4.93
	24	0.77	1.22	1.66	2.10	2.54	2.98	3.43	3.87	4.31	4.75	5.19	5.63	6.08	6.52	6.96
	30	1.23	1.93	2.63	3.33	4.03	4.73	5.43	6.13	6.83	7.53	8.23	8.93	9.63	10.33	11.03
	36	1.45	2.28	3.11	3.94	4.77	5.60	6.43	7.26	8.09	8.92	9.75	10.58	11.41	12.24	13.07
	42	1.68	2.64	3.60	4.55	5.51	6.47	7.43	8.39	9.35	10.31	11.27	12.22	13.18	14.14	15.10
	48	2.13	3.35	4.56	5.78	7.00	8.22	9.43	10.65	11.87	13.08	14.30	15.52	16.74	17.95	19.17
	54	2.36	3.70	5.05	6.40	7.74	9.09	10.43	11.78	13.13	14.47	15.82	17.17	18.51	19.86	21.20
	60	2.58	4.06	5.53	7.01	8.48	9.96	11.44	12.91	14.39	15.86	17.34	18.81	20.29	21.76	23.24
	66	3.03	4.77	6.50	8.24	9.97	11.70	13.44	15.17	16.91	18.64	20.37	22.11	23.84	25.58	27.31
	72	3.26	5.12	6.99	8.85	10.71	12.58	14.44	16.30	18.17	20.03	21.89	23.75	25.62	27.48	29.34
	78	3.49	5.48	7.47	9.46	11.46	13.45	15.44	17.43	19.42	21.42	23.41	25.40	27.39	29.39	31.38
	84	3.94	6.19	8.44	10.69	12.94	15.19	17.44	19.69	21.94	24.19	26.45	28.70	30.95	33.20	35.45
	90	4.16	6.54	8.92	11.30	13.68	16.06	18.44	20.82	23.20	25.58	27.96	30.34	32.72	35.10	37.48
96	4.39	6.90	9.41	11.92	14.43	16.94	19.45	21.95	24.46	26.97	29.48	31.99	34.50	37.01	39.52	
102	4.84	7.61	10.38	13.15	15.91	18.68	21.45	24.22	26.98	29.75	32.52	35.29	38.05	40.82	43.59	
108	5.07	7.97	10.86	13.76	16.66	19.55	22.45	25.35	28.24	31.14	34.04	36.93	39.83	42.73	45.62	
114	5.30	8.32	11.35	14.37	17.40	20.42	23.45	26.48	29.50	32.53	35.55	38.58	41.61	44.63	47.66	
120	5.75	9.03	12.32	15.60	18.88	22.17	25.45	28.74	32.02	35.31	38.59	41.87	45.16	48.44	51.73	

### Air Performance



- ◆ To determine the pressure drop of a louver:  
Calculate the Velocity thru free area; divide the required CFM (volume of air) by the required free area above chart. The pressure drop is expressed in (inches w.g.)
- ◆ To determine the minimum free area required for louver:  
Divide the required CFM (volume of air) by the free area velocity before water penetration, then select the most desirable louver size from the free area chart above.
- ◆ To determine the maximum CFM (volume), knowing the louver size:  
Multiply the required free area (see above free area chart) by maximum velocity thru free area.

