

# AS6D99CH

**STANDARD MATERIALS AND CONSTRUCTION**

**FRAME:** .081" thk. (nominal) extruded aluminum, 6063-T52/T6 alloy.

**BLADE:** .040" thk. (nominal) extruded aluminum, 6063-T52/T6 alloy.  
Horizontal and vertical blades approximately 13/16" on center.

**LOUVER FACE:** Head and blades are contained within jambs, sill contains jambs.

**SCREENS:** (When indicated, in a removable frame.)

1/2" flattened aluminum (.051" thick),

-or- 1/2" sq. mesh, intermediate double-crimped aluminum wire, .063" dia.,

-or- 1/16" mesh, .011" dia. aluminum wire, insect screen.

**DRAIN PAN:** .060" thk. (nominal) formed aluminum with welded and caulked end dams.

**FINISH:** Mill

**OPTIONS**

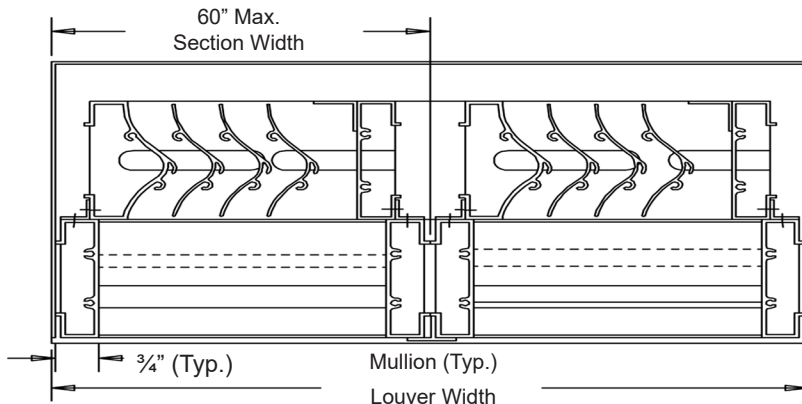
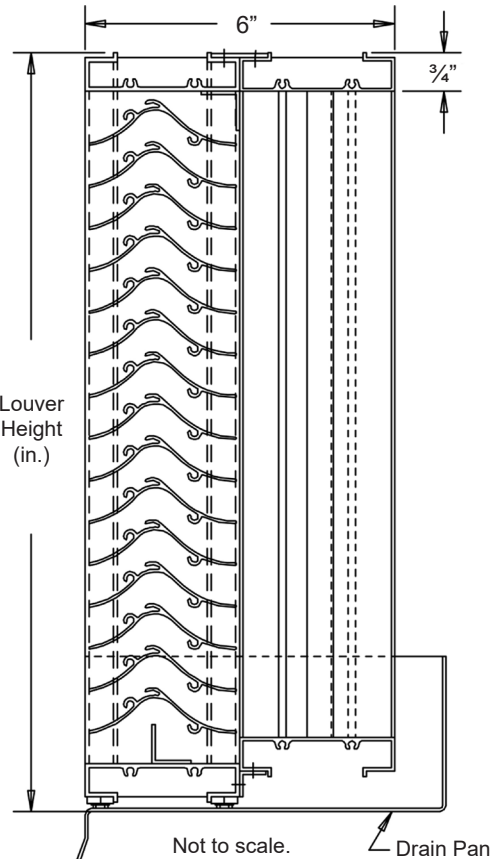
Finish - Baked Enamel, Kynar, Anodized

**NOTES**

1. Nominal deductions will be made to the opening size given.
2. Louvers larger than the maximum factory assembled size will require field assembly of smaller louver sections.


**LOUVER SIZES**

Min Panel	Max Single Panel
12"W x 12"H	60"W x 96"H



Nominal Deductions will be made to the opening size given.

In the interest of product development, Airline Louvers reserves the right to make changes without notice.

											
<b>Item #</b>	<b>Qty</b>	Width	Height	Width	Height	<b>Mullion</b>	Type	Location			
		<b>Opening Size</b>		<b>Louver Size</b>			<b>Screens</b>			<b>Union Made</b>	
<b>Arch. / Eng. :</b>						<b>EDR:</b>		<b>ECN:</b>		<b>Job:</b>	
<b>Contractor:</b>											
<b>Project:</b>						<b>Date:</b>		<b>DWN:</b>		<b>DWG:</b>	

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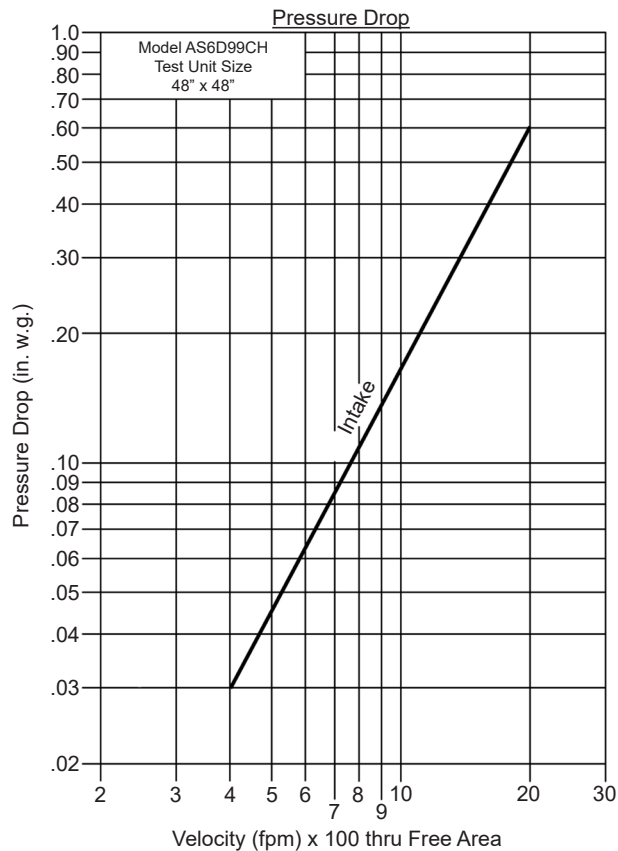
### PERFORMANCE DATA

Pressure Drop: .17 in. wg at 1000 fpm

Free Area: 6.94 sq.ft. (43.4%) for 48"W x 48"H sample tested in accordance with AMCA Standard 500-L.

Class "A" Rating with 99.8% efficiency at 3 in. rain fall at intake velocity of 1771 fpm (10,573 cfm) at wind speed of 29 mph.  
 Class "A" Rating with 99.8% efficiency at 8 in. rain fall at intake velocity of 1774 fpm (10,590 cfm) at wind speed of 50 mph.  
 Testing based on 48" x 48" based on AMCA Standard 500-L.

Ratings do not include effects of a screen.



Intake air converted to standard air density.  
 Tested to AMCA Standard 500-L, Figure 5.5.

Free Area (sq.ft.)

		Width (in.)								
		12"	18"	24"	30"	36"	42"	48"	54"	60"
Height (in.)	12"	.30	.50	.68	.89	1.07	1.28	1.49	1.64	1.85
	24"	.66	1.12	1.52	1.98	2.38	2.84	3.30	3.64	4.10
	36"	1.02	1.73	2.35	3.07	3.69	4.40	5.12	5.65	6.36
	48"	1.38	2.35	3.19	4.16	4.99	5.97	6.94	7.65	8.62
	60"	1.74	2.96	4.02	5.25	6.30	7.53	8.75	9.65	10.88
	72"	2.10	3.58	4.85	6.33	7.61	9.09	10.57	11.66	13.14
	84"	2.46	4.19	5.69	7.42	8.92	10.65	12.39	13.66	15.39
96"	2.82	4.81	6.52	8.51	10.23	12.22	14.20	15.66	17.65	

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Wind Driven Rainwater Penetration Test  
 Conducted to AMCA Standard 500-L.  
 Test size 1m x 1m (39.7" x 39.7") core area, nominal.  
 Louver Free Area 5.97 square feet.

Core Ventilation (m/s)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	Rain Fall / MPH
FPM	-	-	-	-	-	-	-	-	786	874	982	
Free Area Ventilation (cfm)	-	-	-	-	-	-	-	-	8,458	9,415	10,573	
Free Area Velocity (fpm)	-	-	-	-	-	-	-	-	1417	1577	1771	
Effective Rating Class	A	A	A	A	A	A	A	A	A	A	A	
Effectiveness Ratio (%)	-	-	-	-	-	-	-	-	99.9	99.8	99.8	8 in. / hr. rain fall and 50 mph Velocity
FPM	-	-	-	-	-	-	-	-	787	877	984	
Free Area Ventilation (cfm)	-	-	-	-	-	-	-	-	8,471	9,551	10,590	
Free Area Velocity (fpm)	-	-	-	-	-	-	-	-	1419	1600	1774	
Effective Rating Class	A	A	A	A	A	A	A	A	A	A	A	
Effectiveness Ratio (%)	-	-	-	-	-	-	-	-	99.9	99.9	99.8	

Wind Driven Rain Penetration Classifications

Class	Effectiveness %
A	100 to 99%
B	98.9% to 95%
C	94.9% to 80%
D	Below 80%

Discharge Loss Coefficient Classifications

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

Discharge Coefficient

Intake Cd= .29 (CLASS 3)

Class 1 Loss Coefficient has the least resistance to airflow.

1. Core area is the front opening of a louver assembly with the blades removed.
2. Core area velocity is the airflow rate through the louver divided by the core area (39.37" x 39.37").
3. Free area is the minimum area through which air can pass. It is determined by multiplying the sum of the minimum distance between intermediate blades, top blade and head, bottom blade and sill, by the minimum distance between jambs.
4. Discharge loss coefficient is calculated by dividing a louver actual airflow rate vs. a theoretical airflow for the opening, providing an indication of the louver air flow characteristics.



Airline Louvers certifies that the Model AS6D99CH shown herein 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 and Wind Driven Rain only.