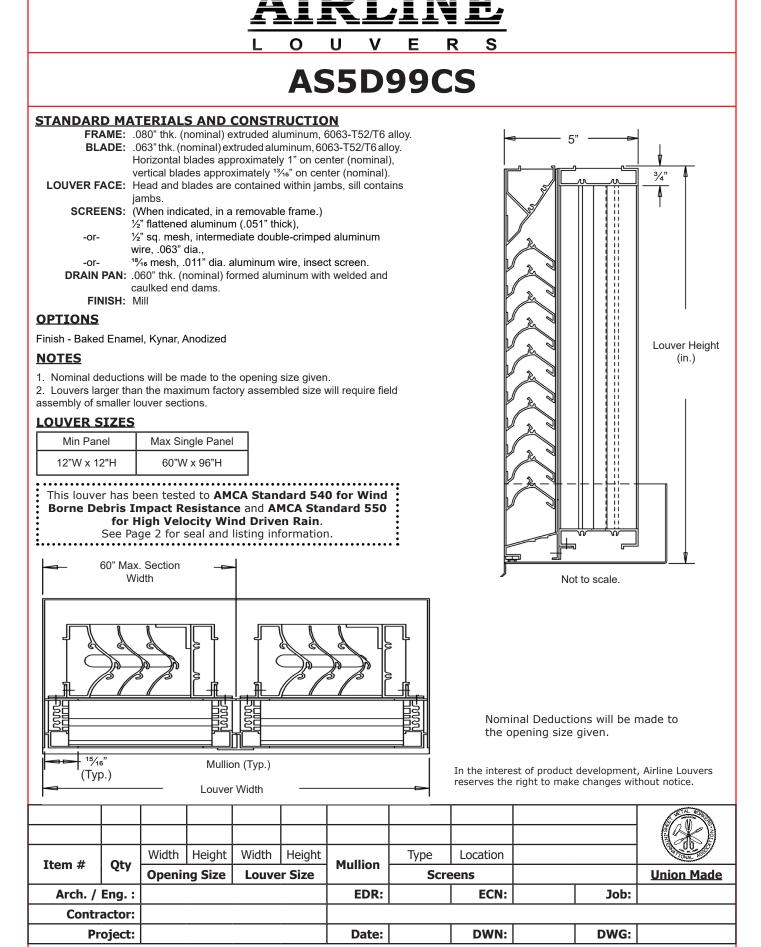
October 2021



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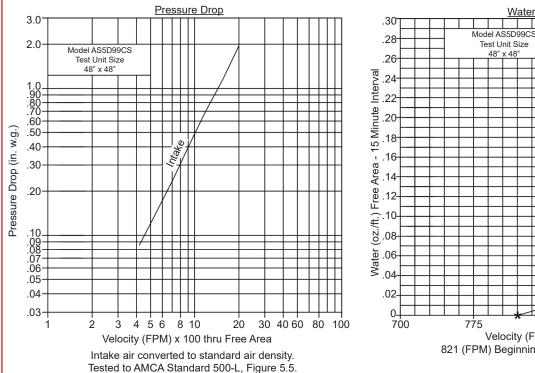
PERFORMANCE DATA

Pressure Drop: .47 in. wg at 1000 fpm

Free Area: 6.85 sq.ft.(43%) for 48"W x 48"H sample tested in accordance with AMCA Standard 500-L. Beginning Point of Water Penetration: 821 fpm (5623 cfm)

Class "A" Rating with 100% efficiency at 3 in. rain fall at intake velocity of 1623 fpm (8,509 cfm) at wind speed of 29 mph. Class "A" Rating with 100% efficiency at 8 in. rain fall at intake velocity of 1420 fpm (7,444 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.



		<u>Free Area (sq.ft.)</u>											
		Width (in.)											
		12"	18"	24"	30"	36"	42"	48"	54"	60"			
Height (in.)	12"	.24	.39	.53	.68	.83	.97	1.12	1.26	1.41			
	24"	.66	1.06	1.45	1.84	2.24	2.63	3.03	3.42	3.82			
	36"	1.08	1.72	2.37	3.01	3.65	4.30	4.94	5.59	6.23			
	48"	1.49	2.39	3.28	4.17	5.07	5.96	6.85	7.75	8.64			
	60"	1.91	3.05	4.20	5.34	6.48	7.62	8.77	9.91	11.05			
	72"	2.33	3.72	5.11	6.50	7.90	9.29	10.68	12.07	13.46			
	84"	2.75	4.39	6.03	7.67	9.31	10.95	12.59	14.23	15.87			
	96"	3.16	5.05	6.94	8.83	10.72	12.61	14.51	16.40	18.29			

Water Penetration

48" x 48"

Velocity (FPM) thru Free Area 821 (FPM) Beginning Point of Water Penetration.

925

1000

850

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AL-09-02-13

AS5D99CS

<u>Wind Driven Rainwater Penetration Test</u> Conducted to AMCA Standard 500-L. Test size 1m x 1m (39.7" x 39.7") core area nominal.

Louver Free Area 5.24 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	-	-	-	-	-	-	-	-	790	890	987		
Free Area Ventilation (cfm)	-	-	-	-	-	-	-	-	8,509	9,577	10,623	3 in. / hr. rain fall	
Free Area Velocity (fpm)	-	-	-	-	-	-	-	-	1623	1827	2026	and 29 mph Velocity	
Effective Rating Class	А	А	А	А	А	A	А	A	Α	А	В		
Effectiveness Ratio (%)	-	-	-	-	-	-	-	-	100	99.9	96.9	Velocity	
FPM	-	-	-	-	-	-	-	691	791	889	983	8 in. / hr. rain fall	
Free Area Ventilation (cfm)	-	-	-	-	-	-	-	7,444	8,521	9,570	10,580		
Free Area Velocity (fpm)	-	-	-	-	-	-	-	1420	1625	1825	2018	and	
Effective Rating Class A		А	А	А	А	Α	А	A	Α	А	В	50 mph Velocitv	
Effectiveness Ratio (%)	-	-	-	-	-	-	-	100	99.9	99.8	97.7	Velocity	

Discharge Loss Coefficient Classifications

Class

1

2

3

4

Discharge Loss

Coefficient

0.4 and above

0.3 to 0.399

0.2 to 0.299

0.199 and below

Wind Driven Rain Penetration Classifications

Class	Effectiveness %
A	100 to 99%
В	98.9% to 95%
С	94.9% to 80%
D	Below 80%

- 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.
- 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.

amca	HIGH VELOCITY RAIN	ance
INTERNATIONAL	RESISTANT WITH BLADES	form:
	FULLY OPEN AND	v per catio
Uburt	IMPACT RESISTANT LOUVER	sel do airflov certifi
LISTED	Basic Protection Level D	MCA a
	$_{\scriptscriptstyle \odot}$ See www.AMCA.org for all certified or listed products	Εą

Airline Louvers certifies that the Model AS5D99CS shown herein is approved to bear the AMCA Listing Label. The ratings shown are based on tests and procedures performed in accordance with AMCA Publications and comply with the requirements of the AMCA Listing Label Program.

The AMCA Listing Label applies to High Velocity Rain Resistant and Wind Borne Debris Impact Resistant Louvers.

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Discharge Coefficient

Intake Cd = .17 (CLASS 4)

Class 1 Loss Coefficient has the least resistance to airflow.



Airline Louvers certifies that the Model AS5D99CS 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, Water Penetration, and Wind Driven Rain only.