June 2020

0 U E S ν R **AS7S99CS** 7 STANDARD MATERIALS AND CONSTRUCTION FRAME: .081" thk. (nominal) extruded aluminum, 6063-T52/T6 alloy. 1 BLADE: .081" thk. (nominal) extruded aluminum, 6063-T52/T6 alloy. Horizontal blades approximately 3" on center, 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.) $\frac{1}{2}$ " flattened aluminum (.051" thick), 1/2" sq. mesh, intermediate double-crimped aluminum -orwire, .063" dia., -or-18/16 mesh, .011" dia. aluminum wire, insect screen. DRAIN PAN: .060" thk. (nominal) formed aluminum with welded and caulked end dams. Louver Height FINISH: Mill (in.) **OPTIONS** Finish - Baked Enamel, Kynar, Anodized 4 **NOTES** 3" 1. 1/2" nominal deduction 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. 3. Approximate shipping weight is 10.5 lbs./sq.ft. LOUVER SIZES Min Panel Max Single Panel Varies 3" 60"W x 96"H 12"W x 12"H (30) sq. ft. Drain Pan Not to scale. 60" Max. Section 1%" Usable Flange Flange Frame available on (3) sides only, none on sill Mullion (Typ.) 11/4" (Typ.) Louver Width O.D. of Drain Pan

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.

Item #	0	Width	Height	Width	Height	Mullion	Туре	Location		
item #	Qty	Openiı	ng Size	Louve	r Size	Mullion	Screens			<u>Union Made</u>
Arch. /	Arch. / Eng. :					EDR:		ECN:	Job:	
Contr	Contractor:									
Project:						Date:		DWN:	DWG:	
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PERFORMANCE DATA

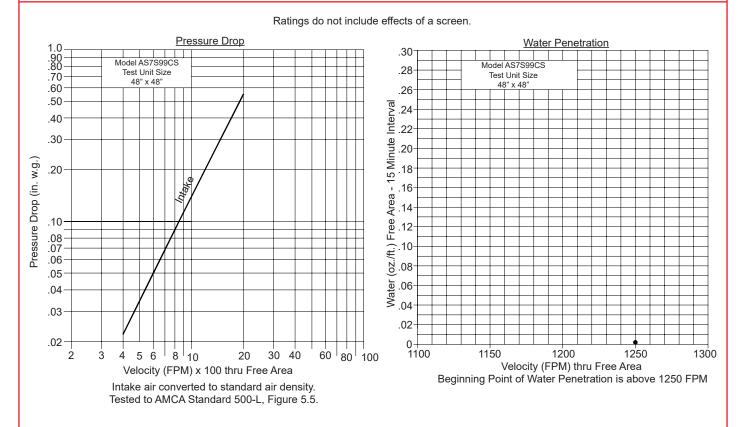
Pressure Drop: .022 in. wg at 400 fpm

Free Area: 6.78 sq.ft. (42.4%) for 48"W x 48"H sample tested in accordance with AMCA Standard 500-L. Beginning Point of Water Penetration: Greater than 1250 fpm Class "A" Rating with 100% efficiency at 3 in. rain fall at intake velocity of 1560 fpm (10,574 cfm) at wind speed of 29 mph.

Class "A" Rating with 99.9% efficiency at 8 in. rain fall at intake velocity of 1565 fpm (10,612 cfm) at wind speed of 50 mph. Testing based on 48" x 48" based on AMCA Standard 500-L.

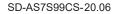
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		Free Area (sq.ft.)										
		Width (in.)										
		12"	18"	24"	30"	36"	42"	48"	54"	60"		
	12"	.26	.44	.62	.79	.97	1.15	1.32	1.50	1.68		
	24"	.62	1.03	1.45	1.86	2.27	2.69	3.10	3.51	3.93		
	36"	.99	1.64	2.30	2.96	3.61	4.27	4.93	5.59	6.24		
it (in.)	48"	1.36	2.26	3.17	4.07	4.98	5.88	6.78	7.69	8.59		
Height	60"	1.71	2.85	3.99	5.14	6.28	7.42	8.56	9.70	10.84		
	72"	2.07	3.45	4.82	6.20	7.58	8.96	10.34	11.71	13.09		
	84"	2.42	4.04	5.65	7.27	8.88	10.50	12.11	13.73	15.34		
	96"	2.80	4.67	6.54	8.41	10.28	12.15	14.02	15.89	17.76		

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AS7S99CS

Wind Driven Rainwater Penetration Test Conducted to AMCA Standard 500-L. Test size 1m x 1m (39.7" x 39.7") core area, 43.125" x 45.25" nominal. Louver Free Area 6.78 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	-	-	-	-	-	-	-	-	-	-	982		
Free Area Ventilation (cfm)	-	-	-	-	-	-	-	-	-	-	10,574	3 in. / hr. rain fall	
Free Area Velocity (fpm)	-	-	-	-	-	-	-	-	-	-	1,560	60 and 29 mph Velocity	
Effective Rating Class	А	Α	А	А	Α	Α	Α	Α	Α	Α	А		
Effectiveness Ratio (%)	-	-	-	-	-	-	-	-	-	-	100		
FPM	-	-	-	-	-	-	-	-	-	884	986		
Free Area Ventilation (cfm)	-	-	-	-	-	-	-	-	-	9,523	10,612	8 in. / hr. rain fall and	
Free Area Velocity (fpm)	-	-	-	-	-	-	-	-	-	1,405	1,565		
Effective Rating Class	А	А	А	Α	Α	Α	Α	Α	Α	Α	А	50 mph Velocity	
Effectiveness Ratio (%)	-	-	-	-	-	-	-	-	-	100	99.9		

Wind Driven Rain Penetration Classifications

Class	Effectiveness %					
A	100 to 99%					
В	98.9% to 95%					
С	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 = .34 (CLASS 2)

Class 1 Loss Coefficient has the least resistance to airflow.



Airline Louvers certifies that the Model AS7S99CS 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.

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.

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