MODEL SP537DC

STANDARD CONSTRUCTION

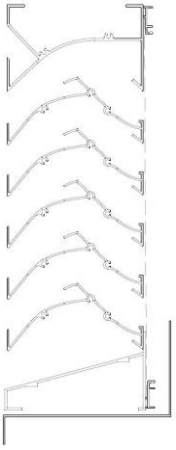
- Material: Extruded Aluminum 6063-T6
- Frame: 5” (127 mm) deep, .081” (2.1 mm) nominal wall thickness
- Blades: 5” (127 mm) deep, .063” (1.6 mm) nominal wall thickness
- Blade Spacing: 2.03” (52 mm) on center
- Finish: Mill

OPTIONAL ACCESSORIES

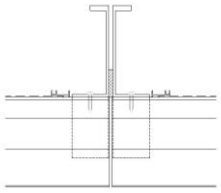
- Screen: 1/2” x .063” flattened expanded bird screen and/or 18 x 14 mesh charcoal insect screen.
- Extended Sill Flashing
- Insulated and Non-insulated Blank-off Panels
- Flanged & Glazing Frames of various sizes
- Visible Mullions
- Invisible Mullions for continuous blade appearance

FINISHES

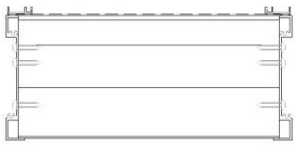
- 2 coat Fluropolymer: Kynar® 500 / custom colors available in 70% PVDF (AAMA 2605). Living Building Challenge (LBC) Red List Free.
- 3 coat Fluropolymer: Kynar 500 / Hylar 5000 custom colors available in 70% PVDF (AAMA 2605). LBC Red List Free.
- Anodic finishes: Class I and Class II in Clear, Light/Medium/Dark Bronze, Champagne, and Black.
- Prime coat



Vertical Section



Invisible Vertical Mullion



Plan View

IMPACT RESISTANT LOUVER
Enhanced Protection

See www.AMCA.org for all certified or listed products

This label does not signify AMCA airflow performance certification.

Industrial Louvers, Inc. certifies that the Model SP537DC shown hereon is licensed to bear the AMCA Seal and 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 Certified Ratings Program and the AMCA Listing Label Program. The AMCA Certified Ratings Seal applies to air performance ratings, water penetration ratings, and wind driven rain. The AMCA Listing Label applies to Wind Borne Debris Impact Resistant Louvers.
Hylar® and Kynar® are registered trademark of Solvay Solexis, Inc.

NOA #14-0908.22

Qty.	Size: Actual ☐ M.O. ☐		Mullion Type	No. of Sections	Notes
	Width	Height			
☐	Sill flashing:		Project:		
☐	Screen:		Location:		
☐	Finish:		Architect:		
	Color:		Representative:		
☐	Other:		Date: Job #:		

www.industriallouvers.com
ilinfo@industriallouvers.com

511 South 7th Street, Delano MN 55328
Tel: +1.763.972.2981 • Fax: +1.763.972.2911

MODEL SP537DC

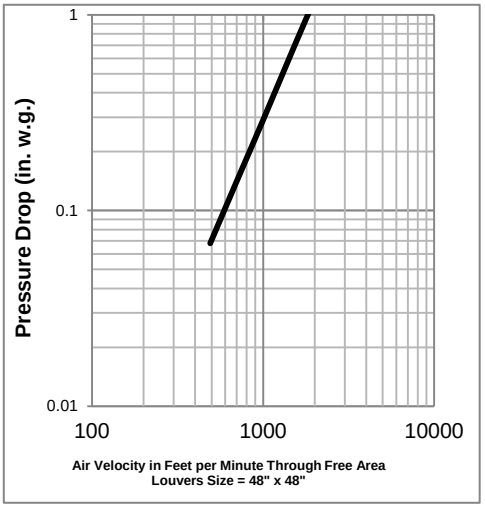
SUGGESTED SPECIFICATIONS
General: Furnish and install where indicated on drawings 5" (127mm) Storm Performance Louver Model SP537DC as manufactured by Industrial Louvers, Inc., Delano, MN.

Material: Extruded aluminum frames and blades shall be one piece 6063-T6 alloy, designed to collect and drain water to the exterior at the sill by means of integral gutters in the blades and jamb frames. Frame shall have a material thickness of .081" (2.1mm). Fixed blades shall have a material thickness of .063" (1.6mm). Frames and blades shall be joined by stainless steel mechanical fastener, and frame will be caulked to prevent water penetration to interior wall construction.

Performance
- Free area (4' x 4' louver) = 8.15 sq. ft. (50.9%)
- Free area velocity at point of beginning water penetration (.01 oz/sq. ft.) = 1195.1 fpm
- Pressure drop @ 722.8 FPM velocity = .15" water
- Air volume @ 722.8 FPM free area velocity = 5,890.82 CFM

Structural Performance Testing: The model SP537DC has been tested in accordance with and passes the following test protocols:
AMCA 540: Missile Impact Test: Enhanced Protection Missile Level E
TAS-201: Large Missile Impact Test: Louver must prevent penetration of large missile simulating airborne debris during a hurricane.
TAS-202: Uniform Static Air Pressure Test: The louver is tested to withstand a constant windload.
TAS-203: Cycle Wind Pressure Test: Tests the louvers ability to withstand both positive and negative windloads as experienced during hurricane winds.

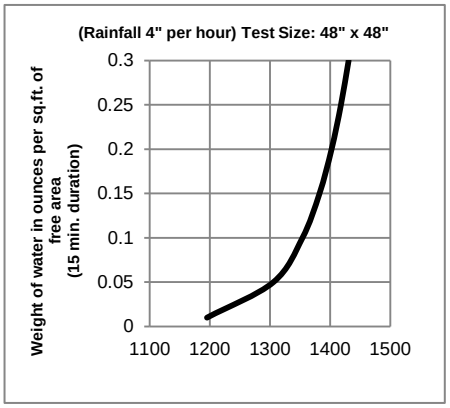
Air Performance Chart



The AMCA Certified Ratings Seal applies to Air Capacities in the intake model only
Data corrected to standard air density

Discharge Coefficient
Intake C_D=0.28 (Class 3)
AMCA certifies the coefficient class only

Water Penetration Chart



Free Area

Square Feet (Square Meters) Free Area AMCA Licensed for openings up to 72" x 120" For free area data for larger openings, contact factory.						
3048.0	0.46	0.99	1.53	2.06	2.59	3.12
120	**5.00**	**10.71**	**16.42**	**22.13**	**27.84**	**33.55**
2743.2	0.42	0.89	1.36	1.84	2.31	2.79
108	**4.47**	**9.58**	**14.69**	**19.80**	**24.91**	**30.02**
2438.4	0.37	0.79	1.20	1.62	2.04	2.46
96	**3.94**	**8.45**	**12.96**	**17.47**	**21.98**	**26.49**
2133.6	0.32	0.68	1.04	1.41	1.77	2.13
84	**3.42**	**7.33**	**11.23**	**15.14**	**19.05**	**22.95**
1828.8	0.27	0.58	0.88	1.19	1.50	1.80
72	**2.89**	**6.20**	**9.50**	**12.81**	**16.12**	**19.42**
1524	0.22	0.47	0.72	0.97	1.22	1.48
60	**2.37**	**5.07**	**7.78**	**10.48**	**13.18**	**15.89**
1219.2	0.17	0.37	0.56	0.76	0.95	1.15
48	**1.84**	**3.94**	**6.05**	**8.15**	**10.25**	**12.36**
914.4	0.12	0.26	0.40	0.54	0.68	0.82
36	**1.31**	**2.82**	**4.32**	**5.82**	**7.32**	**8.83**
609.6	0.07	0.16	0.24	0.32	0.41	0.49
24	**0.79**	**1.69**	**2.59**	**3.49**	**4.39**	**5.29**
304.8	0.02	0.05	0.08	0.11	0.14	0.16
12	**0.26**	**0.56**	**0.86**	**1.16**	**1.46**	**1.76**
H/W	304.8	609.6	914.4	1219	1524	1829
	12	**24**	**36**	**48**	**60**	**72**

Wind Driven Rain Chart

	Rainfall rate of 3" per hour (76 mm) and a wind velocity of 29 mph (47 kph).			Rainfall rate of 8" per hour (76 mm) and a wind velocity of 50 mph (47 kph).		
Ventilation Air Velocity (m/s)	Core Velocity (fpm)	Rating Effectiveness	Class	Core Velocity (fpm)	Rating Effectiveness	Class
0.0		100.0%	A		100.0%	A
0.5		100.0%	A		100.0%	A
1.0		100.0%	A	190	99.7%	A
1.5		100.0%	A	289	99.5%	A
2.0	377	100.0%	A	405	99.2%	A
2.5	464	99.4%	A	500	98.7%	B
3.0	585	98.5%	B	582	98.4%	B
3.5	679	98.0%	B	687	96.7%	B
Effectiveness Rating	**A** = 1 to 0.99	**B** = 0.989 to 0.95		**C** = 0.949 to 0.080	**D** = 0.80 to 0	

www.industriallouvers.com
ilinfo@industriallouvers.com
511 South 7th Street, Delano MN 55328
Tel: +1.763.972.2981 • Fax: +1.763.972.2911