



Model WVSD-6

Extruded Aluminum Louver

Specifications

Application:

Model WVSD-6 is a vertical blade High Velocity Wind-Driven Rain rated louver tested and certified by AMCA, ensuring a high quality product that can be specified with confidence. This model has been tested to AMCA 500-L Air Performance and Wind-Driven Rain standards and is AMCA 550 listed for resistance to High Velocity Wind Driven Rain and is AMCA 540 listed for Impact Resistant Basic Protection level D.

Standard Construction:

Material: 6063-T5 extruded aluminum
 Frame: Heavy Gauge 6" deep x .081" thick
 Blade: Vertical rain resistant style, .080 nominal wall thickness

Sizes:

Max Single Section Width: 48"
 Max Single Section Height: 62"
 Max Multi-Section Width: 96"
 Max Multi-Section Height: 62"

Frame Styles:

Standard: Flush Box - No Flange
Optional: Bottom Flange Only
 Full Perimeter 1.5" Flange

Options:

Insect Screen
 Mounting Sleeves: 8", 10", 12", 14", or 16"

Performance Features:

Free Area: 46%, 7.36 ft² (48" x 48")

Published performance ratings based on testing in accordance with AMCA Standards 500-L and AMCA 550.

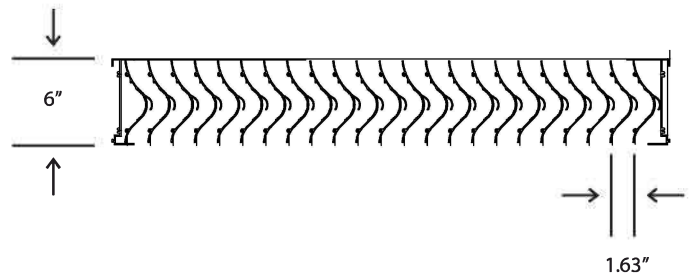
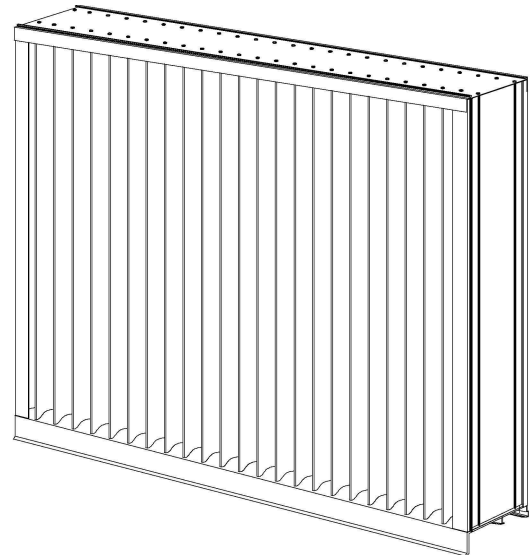
Certified Ratings:



Aire Technologies certifies that Model WVSD-6 shown here 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.

Note:

All WDV-6 Louvers are built 1/4" under size both directions unless ordered actual size.



HIGH VELOCITY
 RAIN RESISTANT
 WITH BLADES FULLY OPEN

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

This label does not signify AMCA airflow performance certification.



IMPACT
 RESISTANT
 LOUVER
 Basic Protection Level D

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

This label does not signify AMCA airflow performance certification.

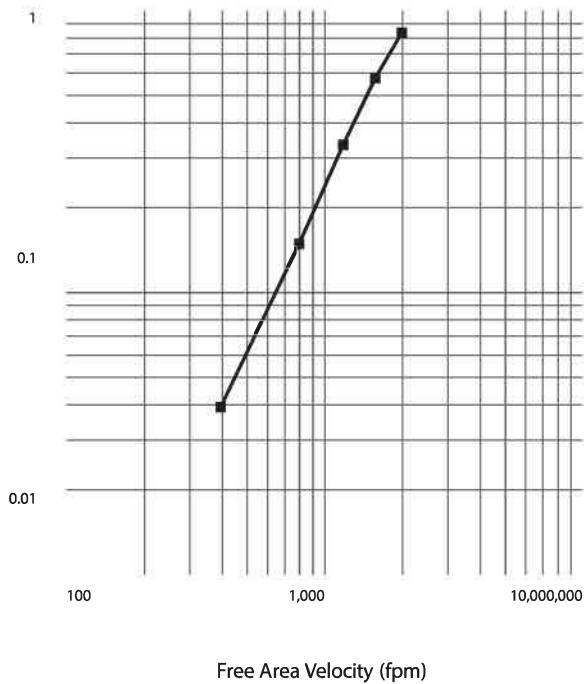
Aire Technologies certifies MODEL WVSD-6 shown here is approved to bear the AMCA Listing Label. The ratings shown are based on tests and procedures performed in accordance with AMCA Publications and comply with the requirements of the AMCA Listing Label Program. The AMCA Listing label applies to High Velocity Rain Resistant Louvers.



Wind-Driven Rain Performance Data

3 in/hr Rainfall and 29 mph Wind					8 in/hr Rainfall and 50 mph Wind				
Core Velocity (fpm)	Airflow (cfm)	Free Area Velocity	Water Penetration		Core Velocity (fpm)	Airflow (cfm)	Free Area Velocity	Water Penetration	
789	8495	1707	-	-	792	8527	1713	99.8%	A
887	9550	1919	100.0%	A	888	9561	1921	99.6%	A
984	10594	2128	99.9%	A	984	10594	2128	99.5%	A

Airflow Resistance



Penetration Class for Wind-Driven Rain

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

Discharge Loss Classes

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

The performance shown is done at standard air density, 0.075lbs./ft. The pressure drop data applies to the intake side of the test unit that was 48" x 48" only.

The AMCA certified rating seal applies to air capacities in intake mode only. Ratings do not include the effects of birdscreen.

Certified Ratings:



Aire Technologies certifies that Model WVSD-6 shown here 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.

Free Area Chart For WDV-6 (Sq. Ft)
 Width in Inches

	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
12	0.25	0.41	0.56	0.75	0.91	1.07	1.26	1.42	1.58	1.73	1.93	2.08	2.24	2.43	2.59
18	0.46	0.75	1.05	1.40	1.70	1.99	2.35	2.64	2.93	3.23	3.58	3.88	4.17	4.53	4.82
24	0.67	1.10	1.53	2.05	2.48	2.91	3.43	3.86	4.29	4.72	5.24	5.67	6.10	6.62	7.05
30	0.89	1.45	2.02	2.70	3.27	3.83	4.52	5.08	5.65	6.21	6.90	7.46	8.03	8.71	9.28
36	1.10	1.80	2.50	3.35	4.05	4.75	5.60	6.30	7.00	7.71	8.55	9.26	9.96	10.81	11.51
42	1.32	2.15	2.99	4.00	4.84	5.68	6.69	7.53	8.36	9.20	10.21	11.05	11.89	12.90	13.74
48	1.53	2.50	3.47	4.65	5.62	6.60	7.77	8.75	9.72	10.69	11.87	12.84	13.81	14.99	15.96
54	1.74	2.85	3.96	5.30	6.41	7.52	8.86	9.97	11.08	12.18	13.53	14.63	15.74	17.09	18.19
60	1.96	3.20	4.44	5.95	7.19	8.44	9.95	11.19	12.43	13.68	15.18	16.43	17.67	19.18	20.42
66	2.17	3.55	4.93	6.60	7.98	9.36	11.03	12.41	13.79	15.17	16.84	18.22	19.60	21.27	22.65
72	2.38	3.90	5.41	7.25	8.76	10.28	12.12	13.63	15.15	16.66	18.50	20.01	21.53	23.37	24.88
78	2.60	4.25	5.90	7.90	9.55	11.20	13.20	14.85	16.50	18.16	20.16	21.81	23.46	25.46	27.11
84	2.81	4.60	6.38	8.55	10.34	12.12	14.29	16.07	17.86	19.65	21.81	23.60	25.39	27.55	29.34
90	3.02	4.95	6.87	9.20	11.12	13.04	15.37	17.30	19.22	21.14	23.47	25.39	27.32	29.65	31.57
96	3.24	5.29	7.35	9.85	11.91	13.96	16.46	18.52	20.58	22.63	25.13	27.19	29.25	31.74	33.80

