SUBMITTAL DATA

MODEL WDV-75 3 DEEP VERTICAL BLADE WIND DRIVEN RAIN / HURRICANE LOUVER

MIAMI-DADE COUNTY, FLORIDA NOTICE OF ACCEPTANCE #: 22-0729.05
FLORIDA BUILDING CODE PRODUCT APPROVAL #: 41627.1

STANDARD CONSTRUCTION:

AMCA 540 (Basic) & 550 Listed

FRAME:
.081 Extruded Aluminum 3" (76.2mm) Deep

BLADES:
.10" (2.54mm) Extruded Aluminum on 13/16" (20.638mm) centers.

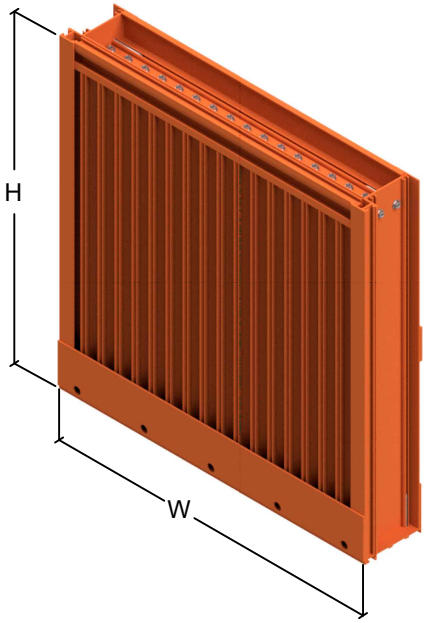
BIRDSCREEN:
0.75" x 0.051" [19.05mm x 1.30mm] Flattened Aluminum in removable frame. Screen is mounted as standard on inside (rear) as looking from exterior of building.

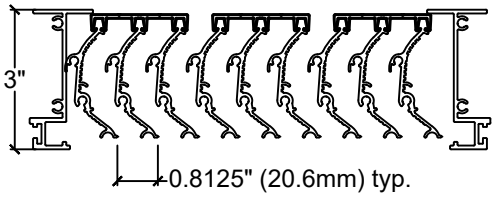
FINISH:
Mill Aluminum (Std)

MINIMUM SIZE:
12"w x 12"h (305mm x 305mm)

MAXIMUM SIZE:
Factory Assembled 60"w x 96"h (1524mm x 2438mm)

Multi-section: Unlimited Width x 96"h (2438mm)





OPTIONS:

☐ Flanged Frame (1.50" std. [38mm])

☐ Custom Flange (1", 2" , or 3" [25mm, 51mm, or 76mm)

☐ Extended Sill

☐ Insect Screen (Other Screens Available, See Screen Page)

☐ Filter Racks (no screen)

☐ Security Bars

AVAILABLE FINISHES:

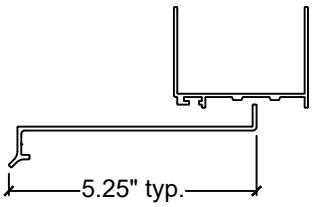
☐ Durable Polyester (AAMA 2604)

☐ 70% PVDF Fluoropolymer (AAMA 2605)

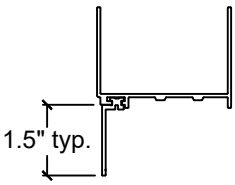
☐ Yellow Primer

☐ Clear Anodize

☐ Dark Bronze Anodize



OPTIONAL EXTENDED SILL



OPTIONAL FLANGE

amca WORLDWIDE CERTIFIED RATINGS — WATER PENETRATION, AIR PERFORMANCE, WIND DRIVEN RAIN — AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC. — www.amca.org

amca INTERNATIONAL LISTED — HIGH VELOCITY RAIN RESISTANT WITH BLADES FULLY OPEN AND 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.

*Width and Height dimensions are approximately 1/4" (6mm) under listed size.

Due to continuing research, United Enertech reserves the right to change specifications without notice.

United Enertech
3005 South Hickory Street
Chattanooga, Tennessee 37407
Tel: (423) 698-7715
Fax: (423) 698-6629
www.unitedenertech.com

MODEL WDV-75 (3" Deep Vertical Extreme Weather Louver)

DRAWN BY:	DATE:	REV. DATE:	REV. NO.	APPROVED BY:	DWG. NO.:
VD	Jan. 2023			CLJ	**A-23d**

WDV-75 Specifications

Furnish and install louver as hereinafter specified where shown on plans or as described in schedules. Louver shall be stationary type with vertical rain resistant style blades positioned on approximately 0.8125" centers within 3" deep frame. Louver frame material to be .1" thick 6063-T5 extruded aluminum, and blade materials to be .1" thick 6063-T5 extruded aluminum. Louver shall have a design wind load of +/-100 psf. Louver shall have a minimum free area of 7.43 sq. ft. based on the standard 48"w x 48"h test specimen. Louver shall have a maximum static pressure drop of 0.14" (exhaust) & 0.19" (intake) water gage based on 1000 FPM free area intake velocity. Louver shall carry Class A water penetration classifications based on a ventilation air core velocity of 993 FPM at a rainfall rate of 3" per hour and a 29 mph simulated wind velocity and ventilation air core velocity of 993 FPM at a rainfall rate of 8" per hour and a 50 mph simulated wind velocity.

Performance Data

Test size 1m x 1m(39"w x39"h) core
47.5"w x 47.5"h Nominal (1.21m x 1.21m)

Wind Driven Rain Penetration Classes	
Class	Effectiveness
A	1 to 0.99
B	0.989 to 0.95
C	0.949 to 0.80
D	Below 0.8

* Discharge Loss Intake		
Wind Velocity (mph)	Class	
	Intake	Exhaust
29	3	2
50	3	2

* Discharge loss coefficient is the theoretical air flow of an opening divided by the actual flow rate of a louver the same size.

Class	Discharge Loss Coefficient
1	0.4 and above
2	0.3 to 0.399
3	0.2 to 0.299
4	.0199 and below

(the higher the coefficient, the less resistance to airflow.)

75 mm/h (3in/h) Rainfall & 13 m/s (29 mph) Wind Velocity		
Ventilation Air Core Velocity m/s (fpm)	Water Penetration Effectiveness %	*Water Penetration Classification
5.04 (993)	100	A

*AMCA Classes for maximum allowable water penetrations

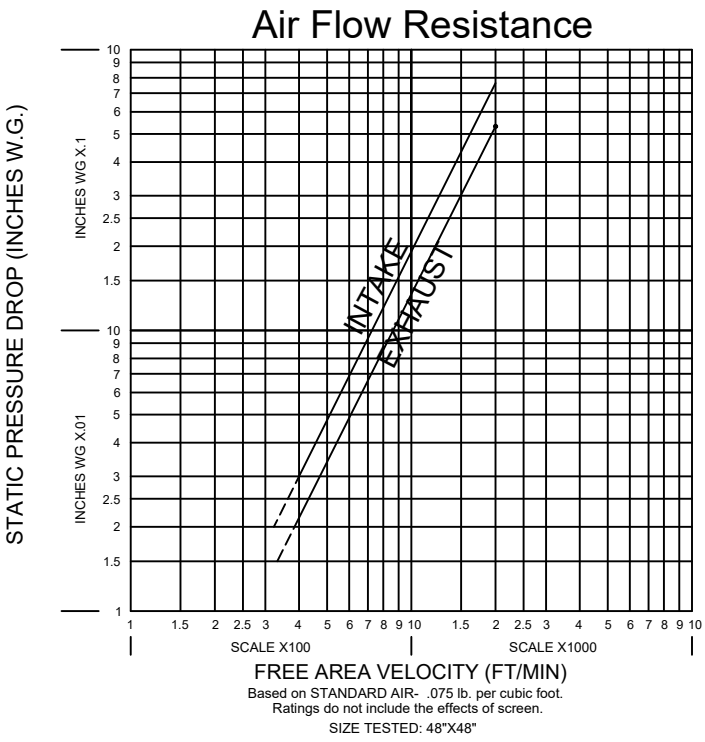
200 mm/h (8in/h) Rainfall & 32 m/s (50 mph) Wind Velocity		
Ventilation Air Core Velocity m/s (fpm)	Water Penetration Effectiveness %	*Water Penetration Classification
5.04 (993)	100	A

*AMCA Classes for maximum allowable water penetrations

The Beginning point of WATER PENETRATION lies above

1250 FPM

free area velocity at .01 oz. of water penetration



Based on STANDARD AIR- .075 lb. per cubic foot.
Ratings do not include the effects of screen.
SIZE TESTED: 48"X48"

United Enertech Corp. certifies that the louver WDV-75 shown herein is licensed to bear the AMCA Seal. The ratings shown are base 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 rating seal applies to water penetration, air performance, and wind driven rain.

Louver Height Inches	WDV-75 FREE AREA IN SQ. FT Width - Inches									Louver Height Inches
	12	18	24	30	36	42	48	54	60	
12	0.29	0.47	0.68	0.87	1.07	1.26	1.44	1.65	1.83	12
18	0.49	0.81	1.16	1.47	1.83	2.14	2.45	2.80	3.12	18
24	0.69	1.14	1.64	2.08	2.58	3.02	3.46	3.96	4.40	24
30	0.90	1.47	2.11	2.68	3.33	3.90	4.47	5.12	5.69	30
36	1.10	1.80	2.59	3.29	4.08	4.78	5.48	6.27	6.97	36
42	1.30	2.13	3.07	3.89	4.84	5.66	6.49	7.43	8.26	42
48	1.50	2.46	3.54	4.50	5.59	6.54	**7.43**	8.59	9.54	48
54	1.70	2.79	4.02	5.11	6.34	7.43	8.51	9.74	10.83	54
60	1.91	3.12	4.50	5.71	7.09	8.31	9.52	10.90	12.11	60
66	2.11	3.45	4.98	6.32	7.85	9.19	10.53	12.06	13.40	66
72	2.31	3.78	5.45	6.92	8.60	10.07	11.54	13.21	14.68	72
78	2.51	4.11	5.93	7.53	9.35	10.95	12.55	14.37	15.97	78
84	2.71	4.44	6.41	8.14	10.10	11.83	13.56	15.53	17.25	84
90	2.91	4.77	6.89	8.74	10.86	12.71	14.57	16.68	18.54	90
96	3.12	5.10	7.36	9.35	11.61	13.59	15.58	17.84	19.82	96

HIGH VELOCITY RAIN RESISTANT WITH BLADES FULLY OPEN AND 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.

United Enertech certifies that the WDV-75 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 Listed Label applies to Wind Borne Debris Impact Resistant Louvers and High Velocity Rain Resistant Louvers