SUBMITTAL DATA

MODEL D-HV-5 **5 DEEP HORIZONTAL/VERTICAL BLADE WIND DRIVEN RAIN / HURRICANE LOUVER**

MIAMI-DADE COUNTY, FLORIDA NOTICE OF ACCEPTANCE #: TBD
FLORIDA BUILDING CODE PRODUCT APPROVAL #: 47657.1

STANDARD CONSTRUCTION:

AMCA 540 (Enhanced) & 550 Listed

Design Pressure: +/- 110 psf

FRAME:
.080 Extruded Aluminum 5" (127mm) Deep

BLADES:
Front/Horizontal: .080 (2.03mm) Extruded Aluminum on 2-7/16" (62mm) centers
Rear/Vertical: 0.10 (2.54mm) Extruded Aluminum on 13/16" (20.638mm) centers

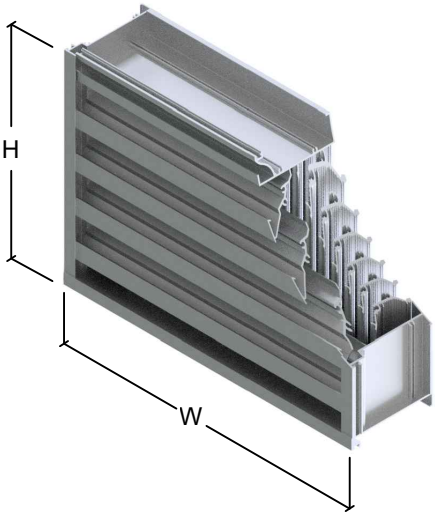
BIRDSCREEN:
0.50" x 0.051" [13mm x 1.30mm] Flattened Aluminum in removable frame. Screen is mounted as standard on inside (rear) as looking from exterior of building.

FINISH:
Mill Aluminum (Std)

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

MAXIMUM SIZE:
Factory Assembled 60"w x 100"h (1524mm x 2540mm)

Multi-section: Unlimited Width x 100"h (2540mm)

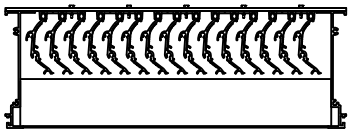


amca WORLDWIDE CERTIFIED RATINGS — WATER PENETRATION, AIR PERFORMANCE, WIND DRIVEN RAIN — AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC. — www.amca.org

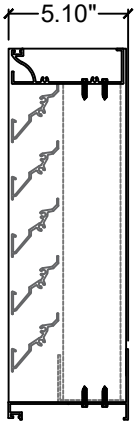
amca INTERNATIONAL LISTED — HIGH VELOCITY RAIN RESISTANT WITH BLADES FULLY OPEN AND IMPACT RESISTANT LOUVER *Enhanced Protection Level E* — See www.AMCA.org for all certified or listed products. This label does not signify AMCA airflow performance certification.

OPTIONS:

- ☐ Flanged Frame (1.50" std. [38mm])
- ☐ Custom Flange (1", 2" , or 3" [25mm, 51mm, or 76mm)
- ☐ Glazing adapter (0.50" or 0.75" wide x 1" deep)
- ☐ Extended Sill
- ☐ Insect Screen (Other Screens Available, See Screen Page)
- ☐ Filter Racks (no screen)
- ☐ Security Bars



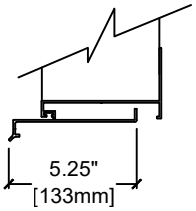
PLAN VIEW



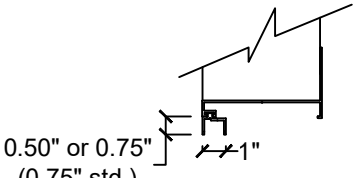
SIDE VIEW

AVAILABLE FINISHES:

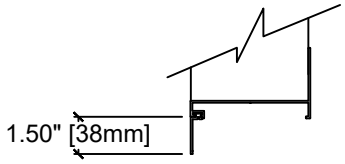
- ☐ Durable Polyester (AAMA 2604)
- ☐ 70% PVDF Fluoropolymer (AAMA 2605)
- ☐ Yellow Primer
- ☐ Clear Anodize
- ☐ Dark Bronze Anodize



OPTIONAL EXTENDED SILL



OPTIONAL GLAZING ADAPTER



OPTIONAL FLANGE

*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.

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MODEL D-HV-5 (5" Deep Horizontal/Vertical Extreme Weather Louver)

DRAWN BY:	DATE:	REV. DATE:	REV. NO.	DWG. NO.:
CLJ	August 2025			**A-23a**

D-HV-5 Specifications

Furnish and install louver as hereinafter specified where shown on plans or as described in schedules. Louver shall be stationary type with horizontal blades positioned on 2.438" centers and vertical rain resistant style blades positioned on approximately 0.8125" centers within a 5" deep frame. Louver frame material to be .080 thick 6063-T5 extruded aluminum, and blade materials to be .080 and .1" thick (respectively) 6063-T5 extruded aluminum. Louver shall have a design wind load of +/-110 psf. Louver shall have a minimum free area of 7.21 sq. ft. based on the standard 48"w x 48"h test specimen. Louver shall have a maximum static pressure drop of 0.25" (exhaust) & 0.33" (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 690 FPM at a rainfall rate of 3" per hour and a 29 mph simulated wind velocity and ventilation air core velocity of 674 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
40.88"w x 45.63"h Nominal

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	3
50	3	3

* 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
3.42 (674)	99.2	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
3.50 (690)	99.0	A

*AMCA Classes for maximum allowable water penetrations

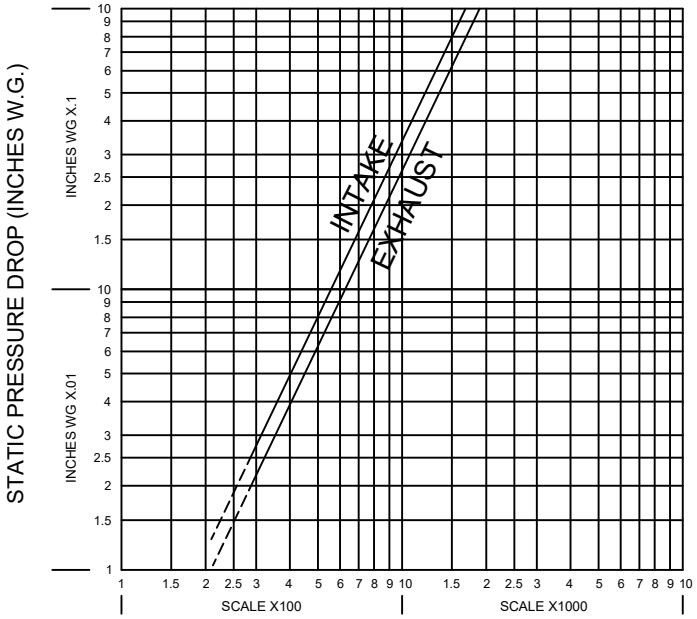
D-HV-5 FREE AREA CHART (SQUARE FEET)

Louver Height (inches)	Louver Width (inches)								
	12	18	24	30	36	42	48	54	60
12	0.27	0.43	0.59	0.75	0.91	1.07	1.23	1.39	1.55
18	0.49	0.77	1.06	1.34	1.63	1.91	2.20	2.48	2.77
24	0.66	1.04	1.43	1.81	2.20	2.58	2.97	3.35	3.74
30	0.92	1.46	2.00	2.54	3.08	3.62	4.17	4.71	5.25
36	1.15	1.82	2.50	3.18	3.85	4.53	5.20	5.88	6.55
42	1.36	2.16	2.96	3.75	4.55	5.35	6.15	6.95	7.75
48	1.59	2.53	3.47	4.40	5.34	6.27	7.21	8.15	9.08
54	1.79	2.85	3.90	4.96	6.01	7.07	8.12	9.18	10.23
60	2.01	3.19	4.37	5.55	6.73	7.91	9.08	10.26	11.44
66	2.22	3.53	4.84	6.15	7.45	8.76	10.07	11.38	12.68
72	2.44	3.87	5.30	6.74	8.17	9.60	11.03	12.47	13.90
78	2.67	4.24	5.81	7.39	8.96	10.53	12.10	13.67	15.24
84	2.87	4.55	6.24	7.92	9.61	11.30	12.98	14.67	16.35
90	2.91	4.62	6.33	8.04	9.75	11.46	13.17	14.88	16.59
96	3.30	5.24	7.18	9.12	11.05	12.99	14.93	16.87	18.81
100	3.45	5.48	7.50	9.53	11.56	13.58	15.61	17.64	19.66

Beginning point of **WATER PENETRATION** for **MODEL D-HV-5 lies above**
1250 fpm
free area velocity at .01 oz. of water (penetration)

WATER PENETRATION ,OZ. PER SQ. FT. OF FREE AREA
(TEST SIZE: 48X48, 15 MINUTE DURATION)

Air Flow Resistance



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 D-HV-5 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.

HIGH VELOCITY RAIN RESISTANT WITH BLADES FULLY OPEN AND IMPACT RESISTANT LOUVER
Enhanced Protection Level E
See www.AMCA.org for all certified or listed products
This label does not signify AMCA airflow performance certification

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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
3.42 (674)	99.2	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
3.50 (690)	99.0	A

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1250 fpm
free area velocity at .01 oz. of water (penetration)

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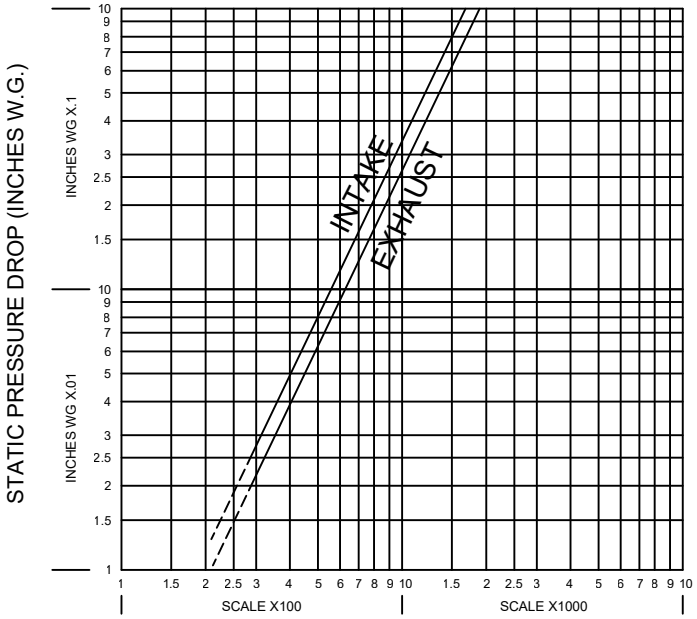

FREE AREA VELOCITY (FT/MIN)
Based on STANDARD AIR- .075 lb. per cubic foot.
Ratings do not include the effects of screen.
SIZE TESTED: 48"X48"

amca INTERNATIONAL LISTED
HIGH VELOCITY RAIN RESISTANT WITH BLADES FULLY OPEN AND IMPACT RESISTANT LOUVER
Enhanced Protection Level E
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