Air Performance

P.O. BOX 86
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HARTFORD, AL 36344
PHONE: (334)-588-0070
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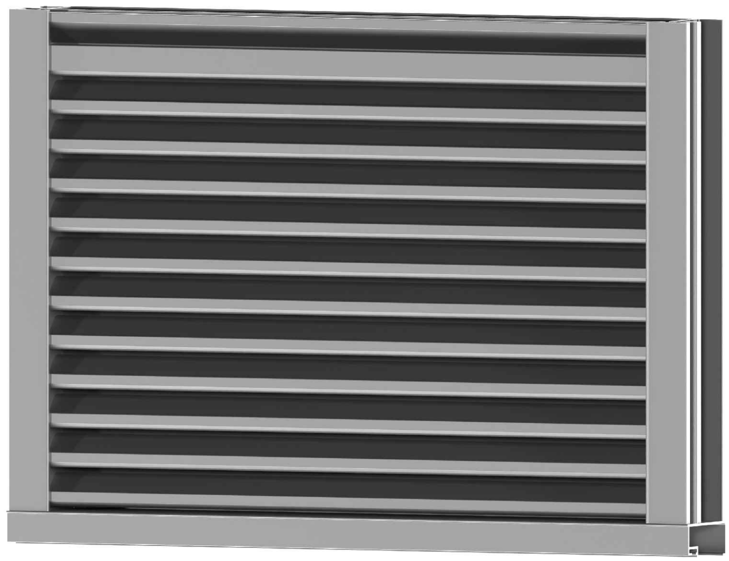
APXS2 STATIONARY LOUVER

STANDARD CONSTRUCTION:



Frame: 6063-T6 extruded aluminum, 2" depth, 0.063" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.063" nominal wall thickness, blades placed on 0.938" centers.

Birdscreen: 1/2" x 0.063" intercrimped aluminum mesh in removable frame.

Finish: mill

Minimum size: 12"w x 12"h

maximum single section: 120"w x 84"w x 120"h. louvers exceeding max single section size will be built in multiple sections and require field assembly

OPTIONS:

- ☐ Extended sill
- ☐ Insect screen and bird screen(various options of screen types)
- ☐ Filter racks
- ☐ Security bars
- ☐ Blank-off, alum., non-insulated, sheet panels with various thickness options
- ☐ blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet panels with various metal thickness options.

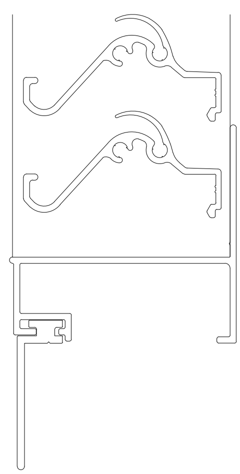
Air Performance, LLC. certifies that the product line shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 511 and comply with the requirements of the AMCA certified ratings program. The AMCA certified rating seal applies to water penetration and air performance ratings for rectangular louvers only.

PERFORMANCE:

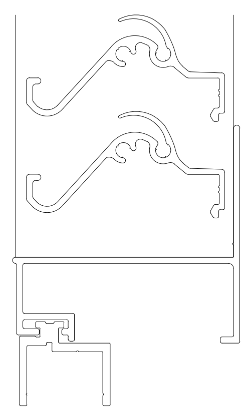
-40.94% free area
-Beginning point of water penetration is 1195 fpm
-wind driven rain

AVAILABLE FINISHES:

O Kynar (2 coat & 3 coat)
O Prime coat
O Clear and color anodize



FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

Revised: 09/05/2025

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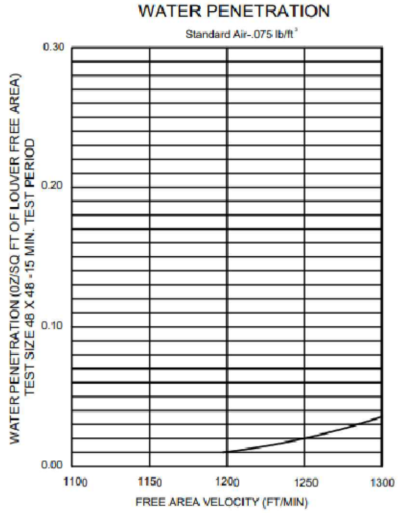
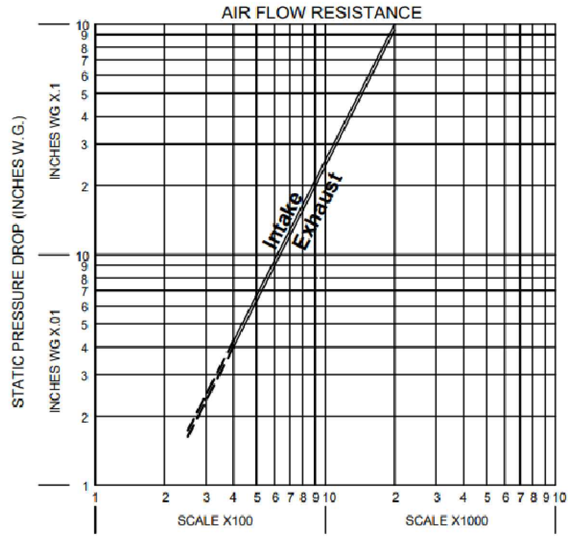
APXS2 LOUVER PERFORMANCE DATA



Beginning point of WATER PENETRATION
is
1195 fpm
free area velocity at .01 oz. of water penetration



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

Louver Height Inches	Width - Inches																			Louver Height Inches
	Width																			
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	
12	0.24	0.43	0.59	0.76	0.92	1.09	1.25	1.42	1.58	1.74	1.91	2.07	2.24	2.40	2.56	2.73	2.89	3.06	3.22	12
18	0.46	0.75	1.03	1.31	1.60	1.88	2.16	2.45	2.73	3.02	3.30	3.58	3.87	4.15	4.44	4.72	5.00	5.29	5.57	18
24	0.65	1.05	1.45	1.85	2.26	2.66	3.06	3.46	3.86	4.26	4.66	5.06	5.46	5.87	6.27	6.67	7.07	7.47	7.87	24
30	0.84	1.35	1.87	2.38	2.90	3.42	3.93	4.45	4.96	5.48	5.99	6.51	7.03	7.54	8.06	8.57	9.09	9.60	10.12	30
36	1.04	1.67	2.31	2.95	3.59	4.23	4.86	5.50	6.14	6.78	7.42	8.06	8.69	9.33	9.97	10.61	11.25	11.88	12.52	36
42	1.23	1.99	2.75	3.50	4.26	5.02	5.78	6.54	7.29	8.05	8.81	9.57	10.33	11.08	11.84	12.60	13.36	14.11	14.87	42
48	1.40	2.26	3.12	3.97	4.83	5.69	**6.55**	7.41	8.27	9.13	9.99	10.85	11.71	12.57	13.43	14.29	15.15	16.01	16.87	48
54	1.61	2.60	3.59	4.58	5.57	6.56	7.55	8.54	9.52	10.51	11.50	12.49	13.48	14.47	15.46	16.45	17.44	18.43	19.42	54
60	1.78	2.87	3.96	5.06	6.15	7.25	8.34	9.43	10.53	11.62	12.71	13.81	14.90	16.00	17.09	18.18	19.28	20.37	21.46	60
66	2.00	3.23	4.47	5.70	6.93	8.16	9.39	10.62	11.86	13.09	14.32	15.55	16.78	18.01	19.25	20.48	21.71	22.94	24.17	66
72	2.16	3.49	4.82	6.15	7.49	8.82	10.15	11.48	12.81	14.14	15.47	16.80	18.13	19.46	20.79	22.12	23.45	24.78	26.12	72
78	2.38	3.84	5.31	6.77	8.23	9.70	11.16	12.62	14.09	15.55	17.01	18.48	19.94	21.40	22.87	24.33	25.79	27.26	28.72	78
84	2.55	4.12	5.68	7.25	8.82	10.39	11.95	13.52	15.09	16.66	18.22	19.79	21.36	22.93	24.50	26.06	27.63	29.20	30.77	84
90	2.77	4.48	6.18	7.89	9.59	11.30	13.01	14.71	16.42	18.12	19.83	21.53	23.24							
96	2.93	4.74	6.54	8.35	10.15	11.96	13.76	15.57	17.37	19.17	20.98	22.78	24.59							
102	3.15	5.09	7.02	8.96	10.90	12.84	14.77	16.71	18.65	20.59	22.52	24.46	26.40							
108	3.32	5.36	7.40	9.44	11.48	13.53	15.57	17.61	19.65	21.69	23.73	25.78	27.82							
114	3.54	5.72	7.90	10.08	12.26	14.44	16.62	18.80	20.98	23.16	25.34	27.52	29.70							
120	3.70	5.98	8.26	10.54	12.82	15.10	17.37	19.65	21.93	24.21	26.49	28.77	31.05							

WIND-DRIVEN RAIN

75 mm/h (3 in/h) Rainfall & 13 m/s (29 mph) Wind Velocity				
Core Velocity fpm (m/s)	Ventilation Airflow cfm (m³/s)	Free Area Velocity fpm (m/s)	Effectiveness	AMCA Effectiveness Class
0 (0.0)	0 (0.00)	0 (0.0)	98.1	B
99 (0.5)	1066 (0.50)	194 (1.0)	95.2	B
196 (1.0)	2110 (1.00)	384 (1.9)	92.4	C
291 (1.5)	3132 (1.48)	570 (2.9)	89.8	C
395 (2.0)	4252 (2.01)	773 (3.9)	85.1	C

202.4 mm/h (8 in/h) Rainfall & 22 m/s (50 mph) Wind Velocity				
Core Velocity fpm (m/s)	Ventilation Airflow cfm (m³/s)	Free Area Velocity fpm (m/s)	Effectiveness	AMCA Effectiveness Class
0 (0.0)	0 (0.00)	0 (0.0)	87.8	C
94 (0.5)	1012 (0.48)	184 (0.9)	86.0	C
196 (1.0)	2110 (1.00)	384 (1.9)	83.9	C
298 (1.5)	3208 (1.51)	583 (3.0)	82.3	C

Test size 1m x 1m (39"x39")core
41-5/8"w x 41-13/16"h Nominal (1.057m x 1.062m)

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	0.199 and below

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

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WATER PENETRATION
AIR PERFORMANCE
WIND DRIVEN RAIN
AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.®
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