

2DB45 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 positioned at 45 degree angle on 2.25" centers.

BIRDSCREEN: 1/2" X 0.063" Intercriped aluminum mesh in removable frame.

FINISH: Mill

MINIMUM SIZE: 12"W X 12"H

MAXIMUM SINGLE SECTION: 120"W X 84"H or 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 .040 sheet panels

PERFORMANCE:

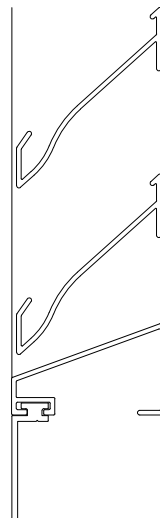
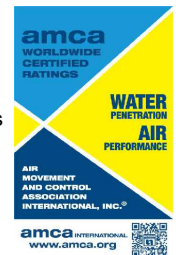
- Free Area = 54.56% (8.73 ft²)
- Beginning point of water penetration = 896 fpm

AVAILABLE FINISHES:

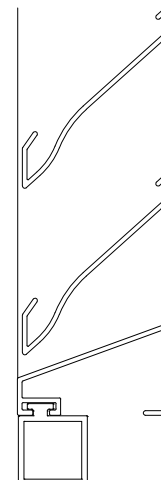
- O Kynar (2 coat & 3 coat)
- O Prime coat



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 ratings seal applies to water penetration and air performance ratings for rectangular louvers only.



FLANGE ADAPTER OPTION



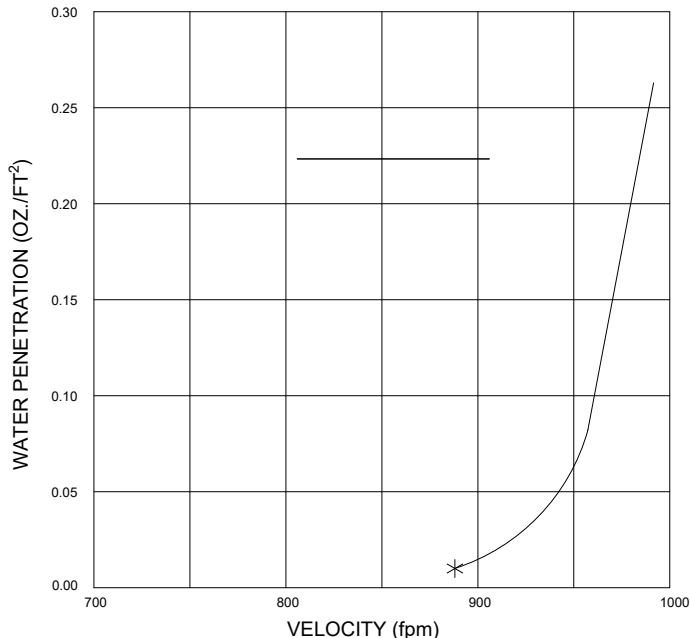
GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)



2DB45 STATIONARY LOUVER FREE AREA CHART

WATER PENETRATION

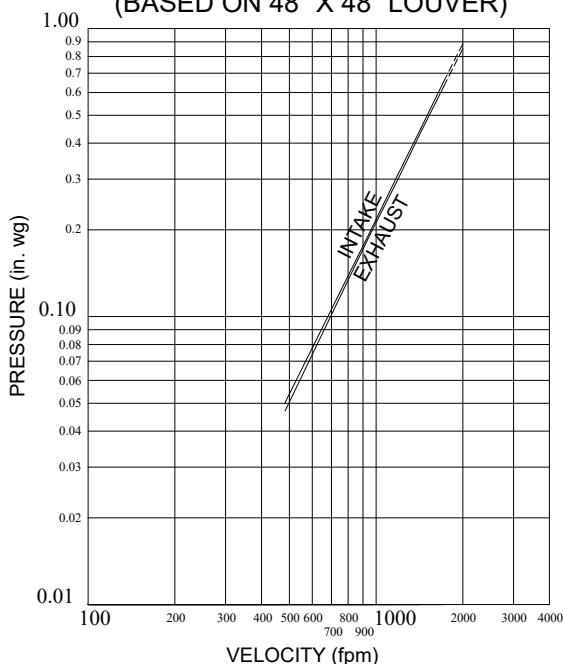
(BASED ON 48" X 48" LOUVER)



* - beginning point of water penetration is 894 fpm

PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



WATER PENETRATION STATEMENT

AMCA DEFINES THE BEGINNING POINT OF WATER PENETRATION AS THE FREE AREA VELOCITY AT WHICH .01 OUNCES OR LESS OF WATER PER SQUARE FOOT OF LOUVER FREE AREA IS MEASURED TO PASS THROUGH A 48" X 48" LOUVER DURING A 15 MINUTE TEST PERIOD.

$$\frac{\text{CFM}}{\text{AIR FLOW VOLUME}} \div \frac{\text{FPM}}{\text{FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION}} = \frac{\text{SQFT}}{\text{REQUIRED LOUVER FREE AREA}}$$

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA



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.

2DB45 FREE AREA CHART LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)	LOUVER WIDTH (IN)															
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102
12	0.38	0.60	0.83	1.05	1.27	1.49	1.72	1.94	2.16	2.38	2.61	2.83	3.05	3.28	3.50	3.72
18	0.63	1.00	1.37	1.75	2.12	2.49	2.86	3.23	3.60	3.97	4.34	4.71	5.08	5.45	5.82	6.19
24	0.87	1.38	1.89	2.40	2.92	3.43	3.94	4.45	4.96	5.47	5.98	6.49	7.00	7.51	8.02	8.53
30	1.16	1.84	2.51	3.19	3.87	4.55	5.22	5.90	6.58	7.26	7.93	8.61	9.29	9.97	10.65	11.32
36	1.41	2.24	3.06	3.89	4.71	5.54	6.36	7.19	8.02	8.84	9.67	10.49	11.32	12.14	12.97	13.80
42	1.65	2.62	3.58	4.55	5.51	6.48	7.44	8.41	9.38	10.34	11.31	12.27	13.24	14.21	15.17	16.14
48	1.94	3.07	4.20	5.33	6.47	7.60	8.73	9.86	11.00	12.13	13.26	14.39	15.53	16.66	17.79	18.93
54	2.19	3.47	4.75	6.03	7.31	8.59	9.87	11.15	12.43	13.71	14.99	16.28	17.56	18.84	20.12	21.40
60	2.43	3.85	5.27	6.69	8.11	9.53	10.95	12.37	13.79	15.21	16.64	18.06	19.48	20.90	22.32	23.74
66	2.71	4.30	5.89	7.48	9.06	10.65	12.24	13.83	15.41	17.00	18.59	20.18	21.76	23.35	24.94	26.53
72	2.97	4.70	6.44	8.17	9.91	11.64	13.38	15.12	16.85	18.59	20.32	22.06	23.79	25.53	27.27	29.00
78	3.20	5.08	6.96	8.83	10.71	12.58	14.46	16.34	18.21	20.09	21.96	23.84	25.71	27.59	29.47	31.34
84	3.49	5.53	7.58	9.62	11.66	13.70	15.75	17.79	19.83	21.87	23.92	25.96	28.00	30.04	32.09	34.13
90	3.74	5.93	8.12	10.31	12.51	14.70	16.89	19.08	21.27	23.46	25.65	27.84	30.03	32.22	34.41	36.60
96	3.98	6.31	8.64	10.97	13.30	15.64	17.97	20.30	22.63	24.96	27.29	29.62	31.95	34.28	36.61	38.94
102	4.27	6.76	9.26	11.76	14.26	16.76	19.25	21.75	24.25	26.75	29.24	31.74	34.24	36.74	39.23	41.73
108	4.52	7.17	9.81	12.46	15.10	17.75	20.39	23.04	25.69	28.33	30.98	33.62	36.27	38.91	41.56	44.21
114	4.76	7.54	10.33	13.12	15.90	18.69	21.47	24.26	27.05	29.83	32.62	35.40	38.19	40.97	43.76	46.55
120	5.04	8.00	10.95	13.90	16.86	19.81	22.76	25.71	28.67	31.62	34.57	37.52	40.48	43.43	46.38	49.33

2HP45 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 positioned at 45 degree angle on 1.75" 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"H or 84"W x 120"H.
Louvers exceeding max single section size will be built in multiple sections and require field assembly.

OPTIONS:

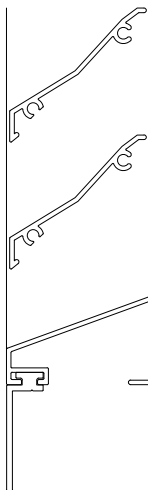
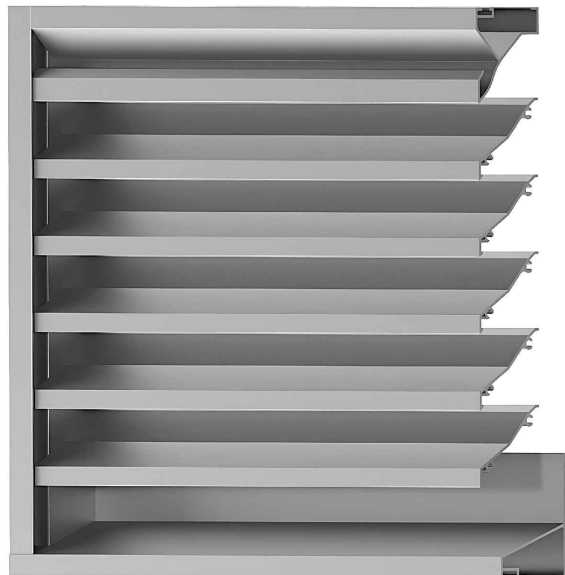
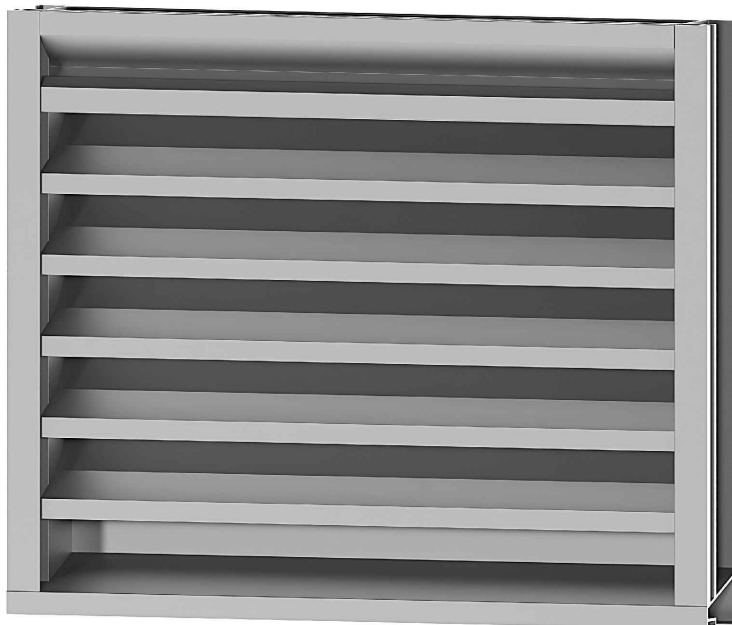
- ☐ Extended sill
- ☐ Insect screen and bird screen (Various options of screen types)
- ☐ Filter racks
- ☐ Security bars
- ☐ Blank-off: aluminum, non-insulated sheet panels with various thickness options
- ☐ Blank-off: aluminum, insulated with various r value & thickness options, encapsulated within .040 sheet panels.

PERFORMANCE:

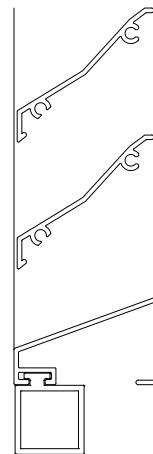
- Free Area = 57.56% (9.21 ft²)

AVAILABLE FINISH

- ☐ Kynar (2 coat & 3 coat)
- ☐ Prime coat



FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
(Other glazing options available)

2HP45 STATIONARY LOUVER FREE AREA CHART

2HP45 FREE AREA CHART

		LOUVER WIDTH (IN)																		
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
LOUVER HEIGHT (IN)	12	0.41	0.64	0.88	1.12	1.36	1.60	1.83	2.07	2.31	2.55	2.79	3.02	3.26	3.50	3.74	3.98	4.21	4.45	4.69
	18	0.67	1.07	1.46	1.85	2.25	2.64	3.03	3.43	3.82	4.22	4.61	5.00	5.40	5.79	6.18	6.58	6.97	7.36	7.76
	24	0.96	1.52	2.08	2.64	3.20	3.76	4.32	4.88	5.44	6.01	6.57	7.13	7.69	8.25	8.81	9.37	9.93	10.49	11.05
	30	1.22	1.93	2.65	3.36	4.08	4.79	5.51	6.22	6.93	7.65	8.36	9.08	9.79	10.51	11.22	11.93	12.65	13.36	14.08
	36	1.50	2.38	3.26	4.13	5.01	5.89	6.77	7.64	8.52	9.40	10.28	11.16	12.03	12.91	13.79	14.67	15.54	16.42	17.30
	42	1.89	3.00	4.11	5.22	6.33	7.43	8.54	9.65	10.76	11.87	12.97	14.08	15.19	16.30	17.41	18.51	19.62	20.73	21.84
	48	2.04	3.24	4.43	5.63	6.82	8.02	9.21	10.41	11.61	12.80	14.00	15.19	16.39	17.58	18.78	19.97	21.17	22.36	23.56
	54	2.32	3.68	5.04	6.39	7.75	9.11	10.47	11.83	13.18	14.54	15.90	17.26	18.61	19.97	21.33	22.69	24.05	25.40	26.76
	60	2.59	4.10	5.61	7.13	8.64	10.15	11.67	13.18	14.69	16.21	17.72	19.24	20.75	22.26	23.78	25.29	26.80	28.32	29.83
	66	2.87	4.55	6.23	7.90	9.58	11.26	12.94	14.62	16.30	17.98	19.66	21.34	23.02	24.69	26.37	28.05	29.73	31.41	33.09
	72	3.13	4.97	6.80	8.64	10.47	12.30	14.14	15.97	17.81	19.64	21.48	23.31	25.14	26.98	28.81	30.65	32.48	34.32	36.15
	78	3.41	5.41	7.41	9.41	11.41	13.40	15.40	17.40	19.40	21.40	23.40	25.39	27.39	29.39	31.39	33.39	35.38	37.38	39.38
	84	3.69	5.84	8.00	10.16	12.32	14.48	16.64	18.79	20.95	23.11	25.27	27.43	29.58	31.74	33.90	36.06	38.22	40.37	42.53
	90	3.96	6.27	8.59	10.90	13.22	15.53	17.85	20.16	22.48	24.79	27.11	29.43	31.74	34.06	36.37	38.69	41.00	43.32	45.63
	96	4.23	6.71	9.19	11.67	14.14	16.62	19.10	21.58	24.06	26.53	29.01	31.49	33.97	36.45	38.82	41.40	43.88	46.36	48.84
	102	4.50	7.13	9.77	12.40	15.03	17.67	20.30	22.93	25.57	28.20	30.84	33.47	36.10	38.74	41.37	44.00	46.64	49.27	51.90
	108	4.78	7.58	10.38	13.18	15.98	18.78	21.57	24.37	27.17	29.97	32.77	35.57	38.37	41.17	43.97	46.77	49.56	52.36	55.16
	114	5.05	8.00	10.96	13.91	16.86	19.82	22.77	25.73	28.68	31.64	34.59	37.54	40.50	43.45	46.41	49.36	52.31	55.27	58.22
	120	5.33	8.45	11.56	14.68	17.80	20.92	24.04	27.15	30.27	33.39	36.51	39.63	42.75	45.86	48.98	52.10	55.22	58.34	61.46

APD2 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 2.16" depth, .060" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.060" nominal wall thickness, blades positioned at 37 degree angle on 1.470" 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"H or 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.

Performance:

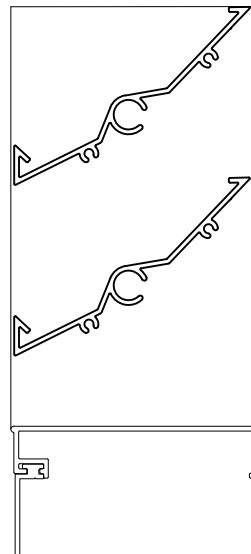
- 54.13% Free area
- Beginning point of water penetration Lies above 805 fpm

Available Finishes:

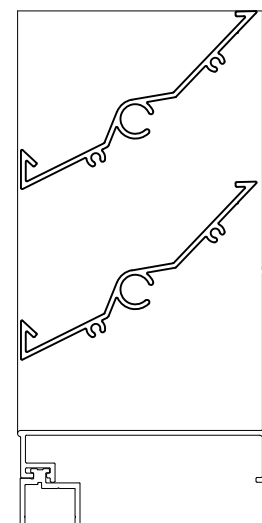
- ☐ Kynar (2 coat & 3 coat)
- ☐ Prime coat
- ☐ Clear and color anodize



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FLANGE ADAPTER OPTION



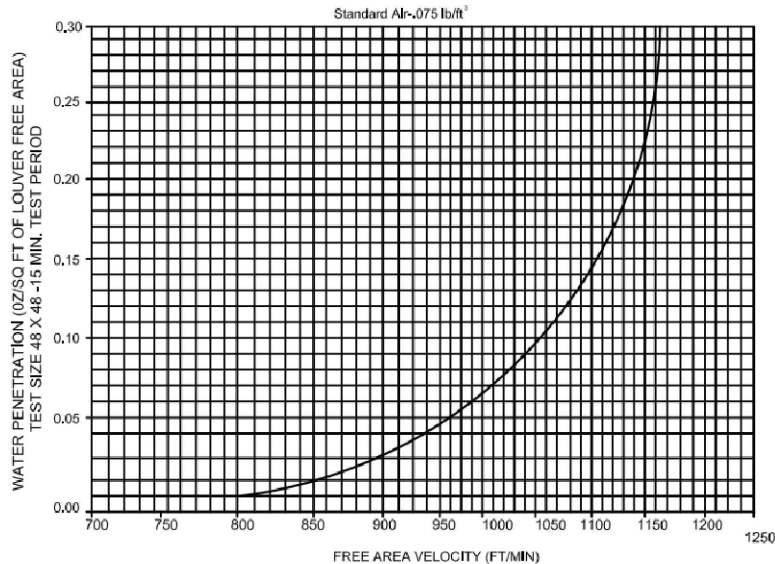
GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

APD2 LOUVER PERFORMANCE DATA

WATER PENETRATION

(BASED ON 48" X 48" LOUVER)

AMCA defines the beginning point of water penetration as the free area velocity at which .01 ounces or less of water per square foot of louver free area is measured to pass through a 48" x 48" louver during a 15 minute period. The AMCA water penetration test provides test data for the comparison of louver designs as to efficiency in resisting the penetration of rainfall under specific laboratory test conditions



* Beginning point of WATER PENETRATION lies above

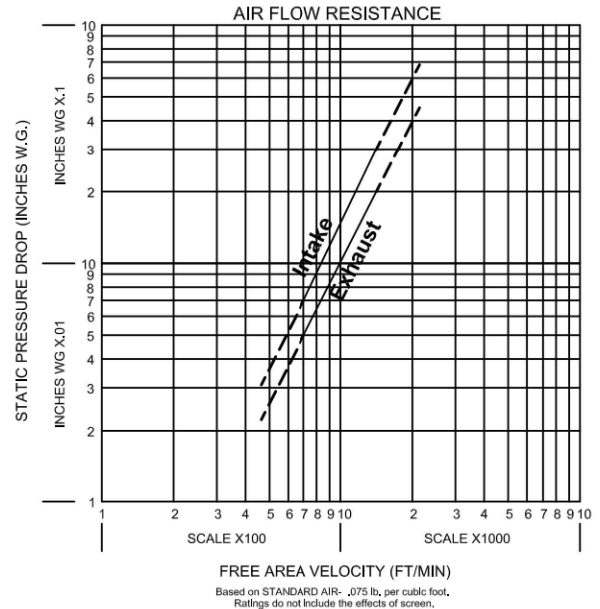
805 fpm

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PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



CFM / FPM = SQFT

AIR FLOW VOLUME FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION REQUIRED LOUVER FREE AREA

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

FREE AREA CHART (SQUARE FEET)

Louver Height	FREE AREA CHART (SQUARE FEET)																			Louver Height
Inches	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	Inches
12	0.33	0.54	0.74	0.95	1.16	1.36	1.57	1.77	1.98	2.18	2.39	2.59	2.80	3.00	3.21	3.41	3.62	3.82	4.03	12
18	0.57	0.92	1.27	1.63	1.98	2.33	2.68	3.03	3.38	3.74	4.09	4.44	4.79	5.14	5.49	5.85	6.20	6.55	6.90	18
24	0.81	1.31	1.81	2.30	2.80	3.30	3.80	4.30	4.79	5.29	5.79	6.29	6.79	7.28	7.78	8.28	8.78	9.28	9.77	24
30	1.11	1.79	2.47	3.15	3.83	4.52	5.20	5.88	6.56	7.24	7.93	8.61	9.29	9.97	10.65	11.33	12.02	12.70	13.38	30
36	1.36	2.19	3.02	3.85	4.69	5.52	6.35	7.19	8.02	8.85	9.69	10.52	11.35	12.19	13.02	13.85	14.69	15.52	16.35	36
42	1.60	2.58	3.57	4.55	5.54	6.52	7.51	8.49	9.48	10.46	11.45	12.43	13.42	14.40	15.39	16.37	17.36	18.34	19.33	42
48	1.85	2.98	4.12	5.26	6.39	7.53	8.66	9.80	10.94	12.07	13.21	14.35	15.48	16.62	17.75	18.89	20.03	21.16	22.30	48
54	2.09	3.38	4.67	5.96	7.24	8.53	9.82	11.11	12.39	13.68	14.97	16.26	17.55	18.83	20.12	21.41	22.70	23.98	25.27	54
60	2.34	3.78	5.22	6.66	8.10	9.54	10.97	12.41	13.85	15.29	16.73	18.17	19.61	21.05	22.49	23.93	25.37	26.81	28.25	60
66	2.53	4.09	5.65	7.21	8.77	10.33	11.89	13.45	15.00	16.56	18.12	19.68	21.24	22.80	24.36	25.92	27.48	29.03	30.59	66
72	2.77	4.48	6.18	7.89	9.59	11.30	13.00	14.71	16.41	18.12	19.82	21.53	23.23	24.94	26.64	28.35	30.06	31.76	33.47	72
78	3.01	4.86	6.71	8.56	10.42	12.27	14.12	15.97	17.82	19.67	21.52	23.38	25.23	27.08	28.93	30.78	32.63	34.49	36.34	78
84	3.25	5.24	7.24	9.24	11.24	13.24	15.23	17.23	19.23	21.23	23.23	25.22	27.22	29.22	31.22	33.22	35.21	37.21	39.21	84
90	3.48	5.63	7.77	9.92	12.06	14.21	16.35	18.49	20.64	22.78	24.93	27.07	29.22	31.36	33.50	35.65	37.79	39.94	42.08	90
96	3.72	6.01	8.30	10.59	12.88	15.18	17.47	19.76	22.05	24.34	26.63	28.92	31.21	33.50	35.79	38.08	40.37	42.66	44.95	96
102	4.02	6.50	8.97	11.45	13.92	16.40	18.87	21.35	23.82	26.30	28.77	31.25	33.72	36.20	38.67	41.15	43.62	46.10	48.57	102
108	4.27	6.89	9.52	12.15	14.77	17.40	20.03	22.65	25.28	27.91	30.53	33.16	35.79	38.41	41.04	43.67	46.29	48.92	51.55	108
114	4.51	7.29	10.07	12.85	15.63	18.41	21.18	23.96	26.74	29.52	32.30	35.07	37.85	40.63	43.41	46.19	48.96	51.74	54.52	114
120	4.76	7.69	10.62	13.55	16.48	19.41	22.34	25.27	28.20	31.13	34.06	36.99	39.92	42.85	45.78	48.71	51.63	54.56	57.49	120

APEL-2 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 2.16" depth, .060" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.060" nominal wall thickness, blades positioned at 37 degree angle on 1.47" 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"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

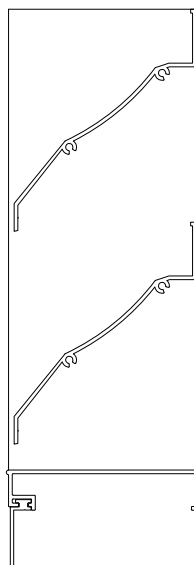
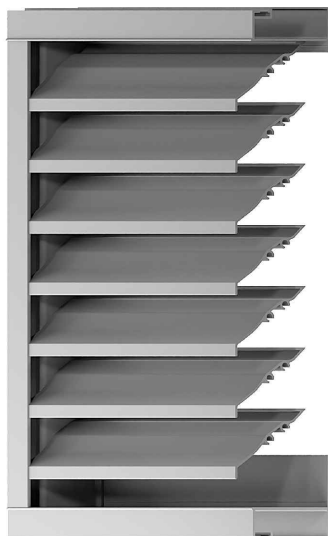
- ☐ Extended sill
- ☐ Insect screen and bird screen(various options of screen types)
- ☐ Filter racks
- ☐ Security bars
- ☐ Blank-off, alum., non-insulated, sheet panels with various thickness options
- ☐ blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet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

Performance:

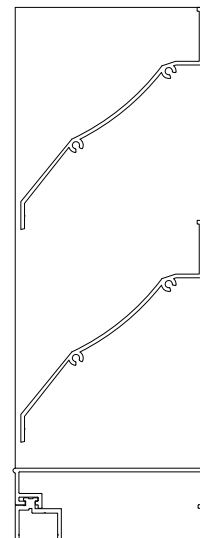
- 55.13% Free area
- Beginning point of water penetration Lies at 524 fpm

Available Finishes:

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



FLANGE ADAPTER OPTION



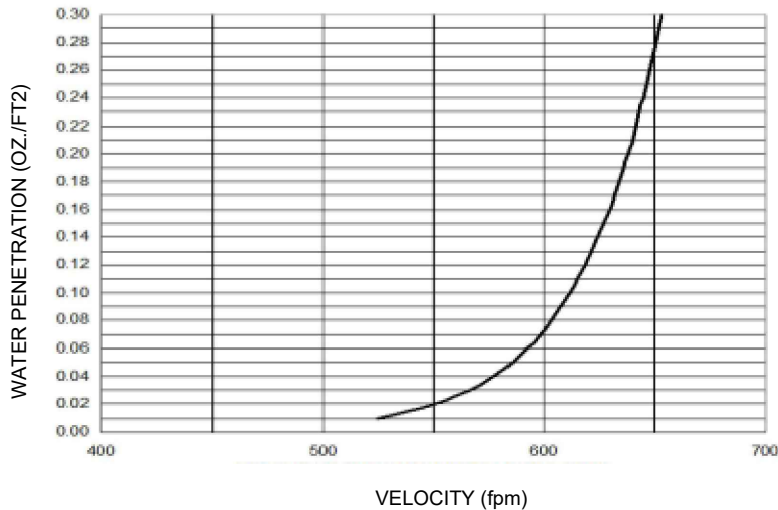
GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

APEL2 LOUVER PERFORMANCE DATA

WATER PENETRATION

(BASED ON 48" X 48" LOUVER)

THE BEGINNING POINT OF WATER PENETRATION IS DEFINED AS THE FREE AREA VELOCITY AT WHICH .01 OUNCES OR LESS OF WATER PER SQUARE FOOT OF LOUVER FREE AREA IS MEASURED TO PASS THROUGH A 48" X 48" LOUVER DURING A 15 MINUTE PERIOD. THE AMCA WATER PENETRATION TEST PROVIDES TEST DATA FOR THE COMPARISON OF LOUVER DESIGNS AS TO EFFICIENCY IN RESISTING THE PENETRATION OF RAINFALL UNDER SPECIFIC LABORATORY TEST CONDITIONS

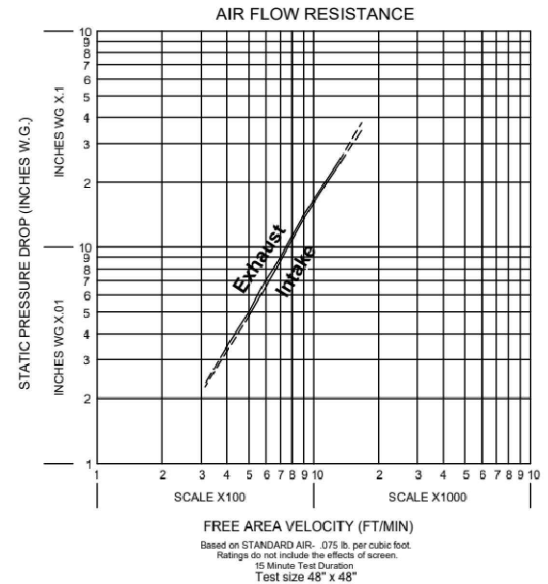


* Beginning point of WATER PENETRATION lies above

524 fpm

PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



CFM /		FPM =	SQFT
AIR FLOW VOLUME	FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION	REQUIRED LOUVER FREE AREA	

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

Louver Height Inches	Width - Inches																				Louver Height Inches
	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	
6	0.03	0.08	0.13	0.18	0.23	0.27	0.32	0.37	0.42	0.47	0.52	0.57	0.62	0.67	0.72	0.77	0.82	0.86	0.91	0.96	12
12	0.07	0.20	0.33	0.46	0.59	0.72	0.84	0.97	1.10	1.23	1.36	1.48	1.61	1.74	1.87	2.00	2.13	2.25	2.38	2.51	6
18	0.19	0.52	0.85	1.19	1.52	1.85	2.18	2.51	2.84	3.17	3.50	3.83	4.16	4.49	4.82	5.16	5.49	5.82	6.15	6.48	18
24	0.27	0.72	1.17	1.63	2.08	2.54	2.99	3.45	3.90	4.35	4.81	5.26	5.72	6.17	6.63	7.08	7.53	7.99	8.44	8.90	24
30	0.35	0.94	1.54	2.13	2.73	3.32	3.92	4.52	5.11	5.71	6.30	6.90	7.49	8.09	8.68	9.28	9.87	10.47	11.06	11.66	30
36	0.47	1.26	2.06	2.86	3.66	4.46	5.25	6.05	6.85	7.65	8.44	9.24	10.04	10.84	11.64	12.43	13.23	14.03	14.83	15.63	36
42	0.58	1.58	2.58	3.58	4.59	5.59	6.59	7.59	8.59	9.59	10.59	11.59	12.59	13.59	14.59	15.59	16.59	17.59	18.59	19.59	42
48	0.68	1.84	3.01	4.17	5.33	6.50	7.66	8.82	9.99	11.15	12.31	13.48	14.64	15.80	16.97	18.13	19.29	20.46	21.62	22.78	48
54	0.77	2.10	3.43	4.75	6.08	7.41	8.73	10.06	11.39	12.71	14.04	15.36	16.69	18.02	19.34	20.67	22.00	23.32	24.65	25.98	54
60	0.87	2.36	3.85	5.34	6.83	8.32	9.81	11.29	12.78	14.27	15.76	17.25	18.74	20.23	21.72	23.21	24.70	26.19	27.68	29.17	60
66	0.92	2.49	4.06	5.64	7.21	8.78	10.36	11.93	13.51	15.08	16.65	18.23	19.80	21.37	22.95	24.52	26.09	27.67	29.24	30.81	66
72	1.01	2.75	4.49	6.22	7.96	9.69	11.43	13.17	14.90	16.64	18.38	20.11	21.85	23.59	25.32	27.06	28.80	30.53	32.27	34.00	72
78	1.11	3.01	4.91	6.81	8.71	10.61	12.50	14.40	16.30	18.20	20.10	22.00	23.90	25.80	27.70	29.60	31.50	33.40	35.30	37.20	78
84	1.20	3.27	5.33	7.39	9.45	11.51	13.58	15.64	17.70	19.76	21.83	23.89	25.95	28.01	30.08	32.14	34.20	36.26	38.33	40.39	84
90	1.30	3.52	5.75	7.97	10.20	12.42	14.65	16.87	19.10	21.32	23.55	25.77	27.99	30.22	32.44	34.67	36.89	39.12	41.34	43.57	90
96	1.39	3.78	6.17	8.56	10.95	13.34	15.73	18.12	20.51	22.90	25.28	27.67	30.06	32.45	34.84	37.23	39.62	42.01	44.40	46.79	96
102	1.45	3.94	6.43	8.92	11.41	13.89	16.38	18.87	21.36	23.85	26.34	28.83	31.31	33.80	36.29	38.78	41.27	43.76	46.24	48.73	102
108	1.57	4.26	6.95	9.65	12.34	15.03	17.72	20.42	23.11	25.80	28.49	31.18	33.88	36.57	39.26	41.95	44.64	47.34	50.03	52.72	108
114	1.69	4.58	7.48	10.37	13.27	16.16	19.06	21.95	24.85	27.74	30.63	33.53	36.42	39.32	42.21	45.11	48.00	50.90	53.79	56.69	114
120	1.81	4.90	8.00	11.10	14.20	17.29	20.39	23.49	26.58	29.68	32.78	35.87	38.97	42.07	45.17	48.26	51.36	54.46	57.55	60.65	120

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:

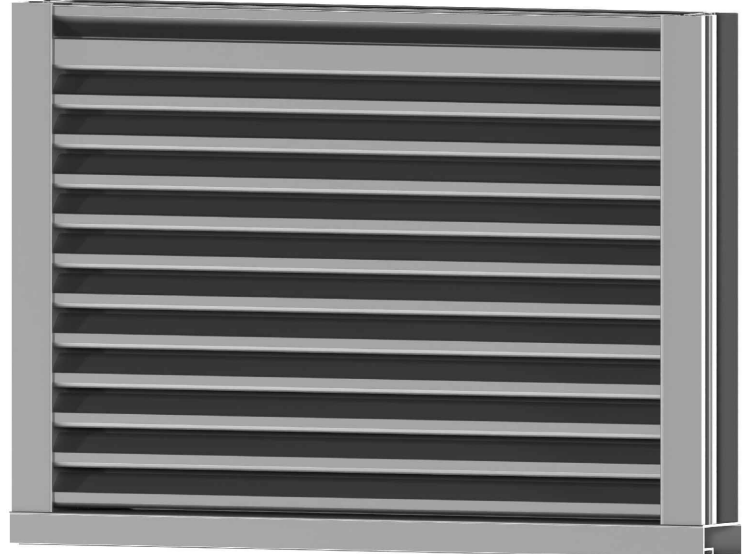
- ☐ Extended sill
- ☐ Insect screen and bird screen (various options of screen types)
- ☐ Filter racks
- ☐ Security bars
- ☐ Blank-off, alum., non-insulated, sheet panels with various thickness options
- ☐ blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet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

PERFORMANCE:

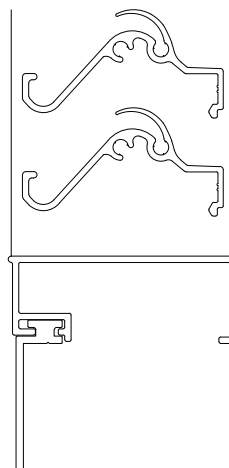
- 40.94% free area
- Beginning point of water penetration is 1195 fpm
- wind driven rain

AVAILABLE FINISHES:

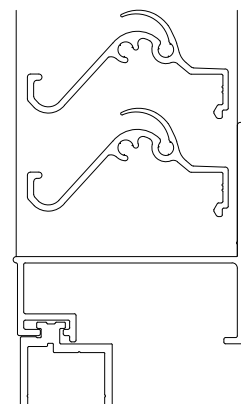
- ☐ Kynar (2 coat & 3 coat)
- ☐ Prime coat
- ☐ Clear and color anodize



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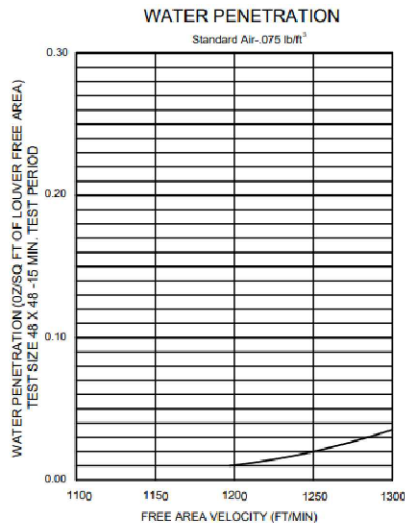


FLANGE ADAPTER OPTION

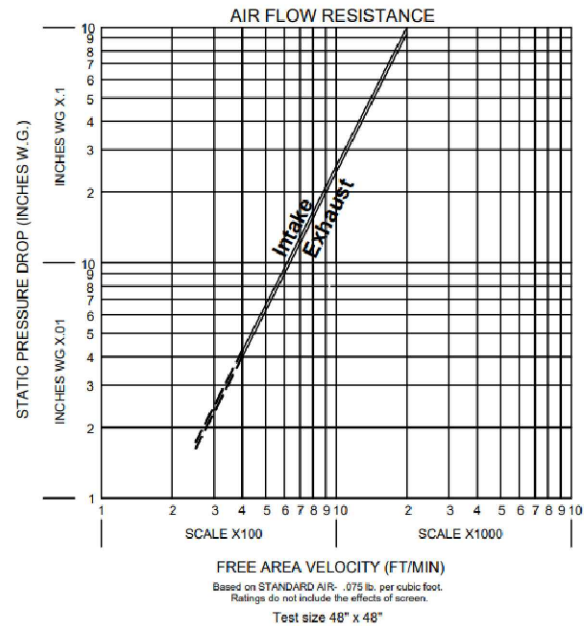


GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

APXS2 LOUVER PERFORMANCE DATA



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



Louver Height Inches	Width - Inches																			Louver Height Inches
	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 (m ³ /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 (m ³ /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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WDV-75 STATIONARY LOUVER

AMCA 540 & 550 Listed

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 3" depth, 0.081" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.125 nominal wall thickness, blades positioned vertically on .813" 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: 60"W X 96"H . Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

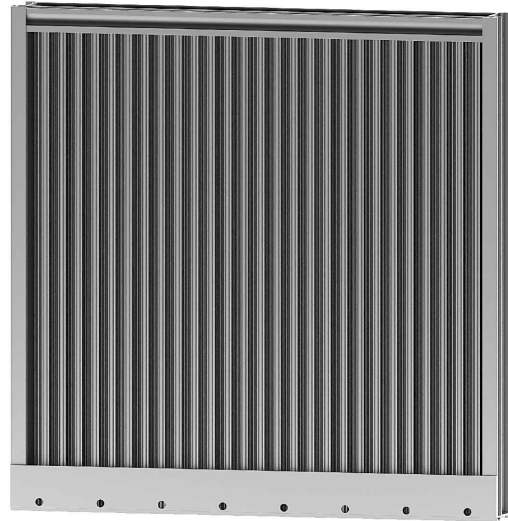
- ☐ Extended sill
- ☐ Insect screen and bird screen (various options of screen types)
- ☐ Filter racks
- ☐ Security bars
- ☐ Blank-off, alum., non-insulated, sheet panels with various thickness options
- ☐ blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet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

Performance:

- 47.94% Free area
- Beginning point of water penetration lies above 1250 fpm
- "A" rating Water Penetration

Available Finishes:

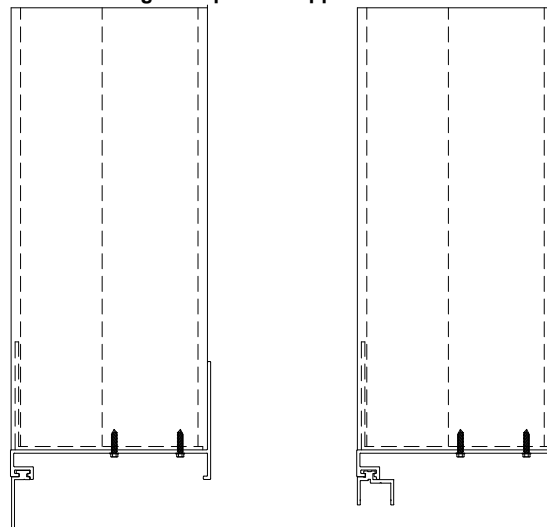
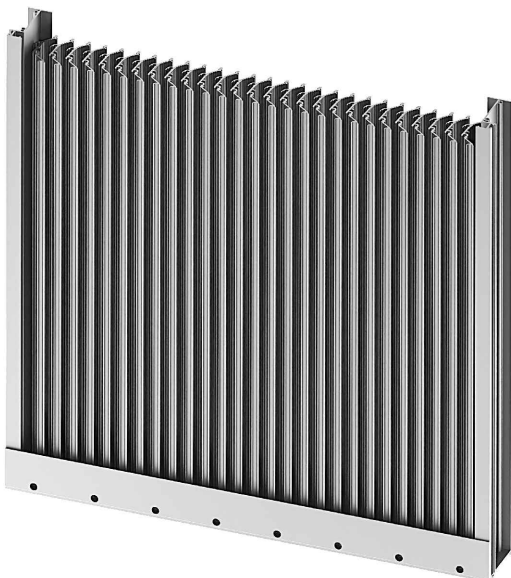
- ☐ Kynar (2 coat & 3 coat)
- ☐ Prime coat
- ☐ Clear and color anodize



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Miami-Dade County, Florida notice of acceptance #: 23-0726.12
Florida building code product approval # 41627.1



FLANGE ADAPTER OPTION GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

WDV-75 LOUVER PERFORMANCE DATA

Test size 1m x 1m (39" w x 39" 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 Initial		
Wind Velocity (mph)	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

_____ CFM / _____ FPM = _____ SQFT

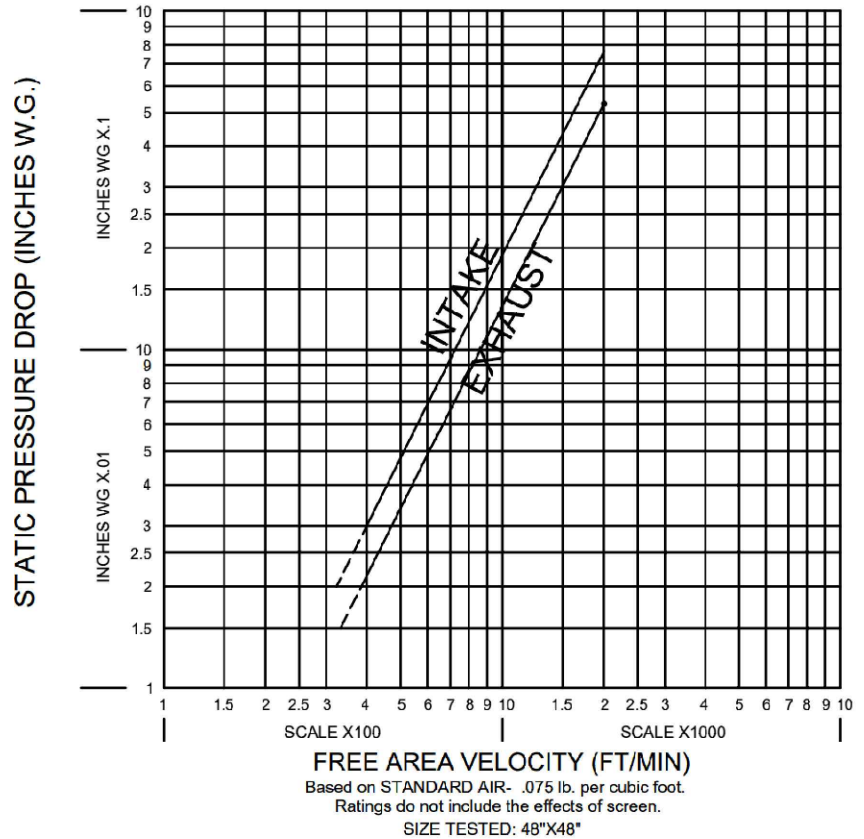
AIR FLOW VOLUME FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION REQUIRED LOUVER FREE AREA

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

PRESSURE DROP
(BASED ON 48" X 48" LOUVER)

Air Flow Resistance



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Louver Height Inches	WDV-75 FREE AREA IN SQ. FT									Louver Height Inches
	Width - 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

4D375 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 4" depth, 0.081" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081" nominal wall thickness, blades positioned at 37.5 degree angle on 5.063" 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"H or 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 .040 sheet panels

Performance:

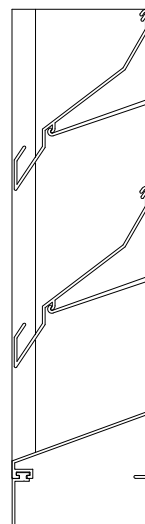
- Free Area = 52.31% (8.37 ft²)
- Beginning point of water penetration is 725 fpm

Available Finishes:

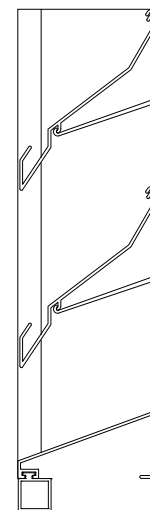
- ☐ Kynar (2 coat & 3 coat)
- ☐ Prime coat



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.



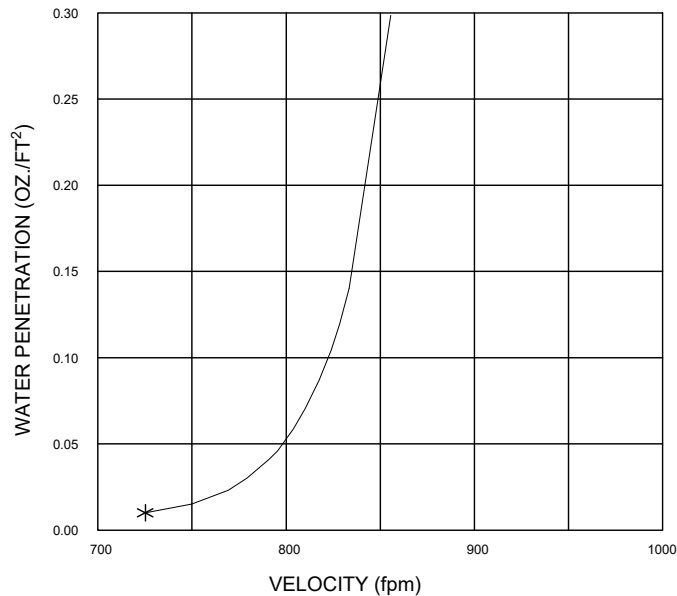
FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

4D375 LOUVER PERFORMANCE DATA

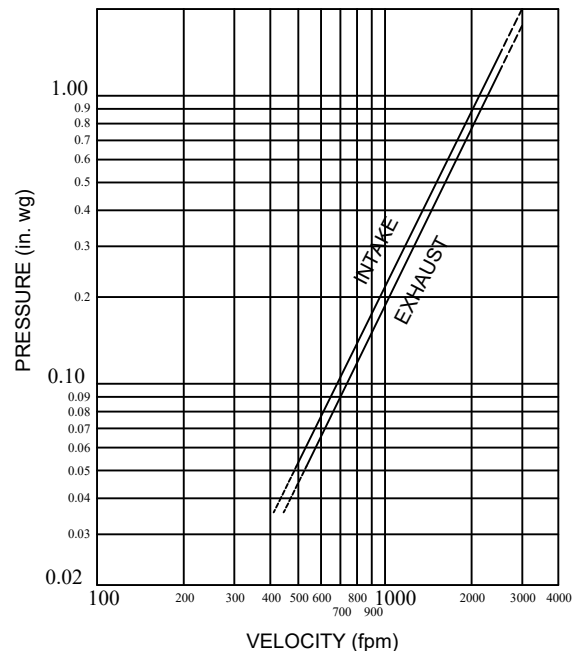
WATER PENETRATION (BASED ON 48" X 48" LOUVER)



WATER PENETRATION STATEMENT

AMCA DEFINES THE BEGINNING POINT OF WATER PENETRATION AS THE FREE AREA VELOCITY AT WHICH .01 OUNCES OR LESS OF WATER PER SQUARE FOOT OF LOUVER FREE AREA IS MEASURED TO PASS THROUGH A 48" X 48" LOUVER DURING A 15 MINUTE TEST PERIOD.

PRESSURE DROP (BASED ON 48" X 48" LOUVER)



$$\frac{\text{CFM}}{\text{AIR FLOW VOLUME}} = \frac{\text{FPM}}{\text{FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION}} = \frac{\text{SQFT}}{\text{REQUIRED LOUVER FREE AREA}}$$

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA



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4D375 FREE AREA CHART LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.34	0.54	0.75	0.96	1.16	1.37	1.58	1.78	1.99	2.20	2.40	2.61	2.82	3.03	3.23	3.44	3.65	3.85	4.06
18	0.60	0.98	1.35	1.72	2.09	2.47	2.84	3.21	3.58	3.95	4.33	4.70	5.07	5.44	5.81	6.19	6.56	6.93	7.30
24	0.83	1.35	1.86	2.38	2.89	3.40	3.92	4.43	4.95	5.46	5.97	6.49	7.00	7.51	8.03	8.54	9.06	9.57	10.08
30	1.04	1.69	2.33	2.97	3.61	4.26	4.90	5.54	6.18	6.82	7.47	8.11	8.75	9.39	10.04	10.68	11.32	11.96	12.60
36	1.31	2.12	2.93	3.74	4.55	5.36	6.17	6.98	7.79	8.60	9.41	10.22	11.02	11.83	12.64	13.45	14.26	15.07	15.88
42	1.57	2.53	3.49	4.45	5.42	6.38	7.34	8.31	9.27	10.23	11.20	12.16	13.12	14.09	15.05	16.01	16.97	17.94	18.90
48	1.83	2.96	4.09	5.22	6.35	7.48	8.37	9.73	10.86	11.99	13.12	14.25	15.37	16.50	17.63	18.76	19.89	21.02	22.15
54	2.09	3.37	4.66	5.94	7.23	8.51	9.79	11.08	12.36	13.65	14.93	16.22	17.50	18.79	20.07	21.36	22.64	23.93	25.21
60	2.30	3.71	5.12	6.54	7.95	9.36	10.77	12.19	13.60	15.01	16.43	17.84	19.25	20.67	22.08	23.49	24.90	26.32	27.73
66	2.53	4.08	5.63	7.19	8.74	10.30	11.85	13.40	14.96	16.51	18.07	19.62	21.17	22.73	24.28	25.84	27.39	28.94	30.50
72	2.79	4.51	6.23	7.95	9.67	11.39	13.11	14.83	16.55	18.27	19.99	21.71	23.42	25.14	26.86	28.58	30.30	32.02	33.74
78	3.06	4.95	6.83	8.72	10.60	12.48	14.37	16.25	18.14	20.02	21.91	23.79	25.68	27.56	29.44	31.33	33.21	35.10	36.98
84	3.34	5.40	7.45	9.51	11.56	13.62	15.67	17.73	19.78	21.84	23.89	25.95	28.00	30.06	32.11	34.17	36.23	38.28	40.34
90	3.55	5.73	7.92	10.10	12.28	14.47	16.65	18.84	21.02	23.20	25.39	27.57	29.75	31.94	34.12	36.31	38.49	40.67	42.86

4Z375 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 4" depth, 0.081" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081" nominal wall thickness, blades positioned at 37.5 degree angle on 5.063" 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"H or 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 .040 sheet panels

Performance:

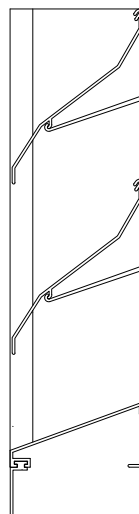
- Free Area = 54.06% (8.65 ft²)
- Beginning point of water penetration is 797.4 fpm

Available Finishes:

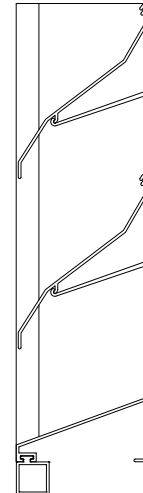
- ☐ Kynar (2 coat & 3 coat)
- ☐ Prime coat



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FLANGE ADAPTER OPTION

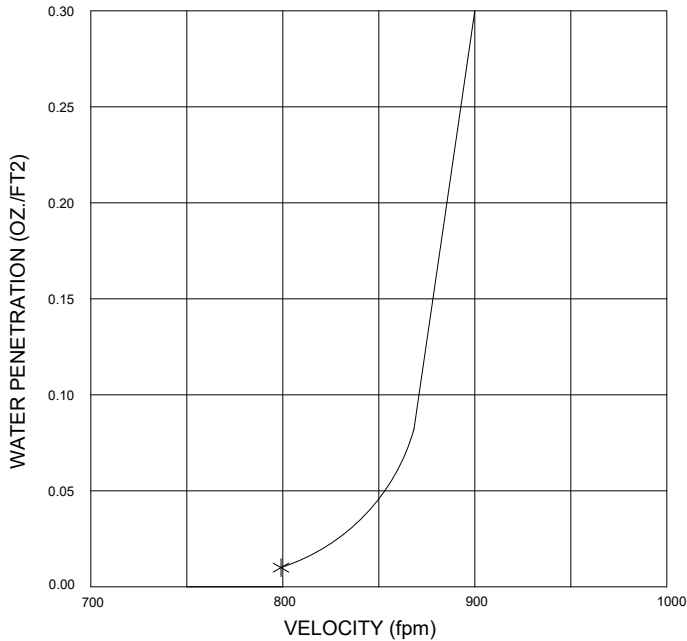


GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

4Z375 LOUVER PERFORMANCE DATA

WATER PENETRATION

(BASED ON 48" X 48" LOUVER)



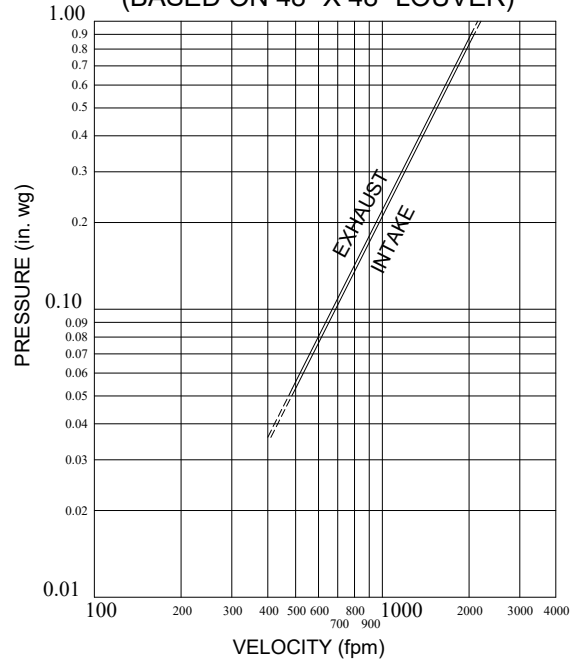
* - beginning point of water penetration is 797.4 fpm

WATER PENETRATION STATEMENT

AMCA DEFINES THE BEGINNING POINT OF WATER PENETRATION AS THE FREE AREA VELOCITY AT WHICH .01 OUNCES OR LESS OF WATER PER SQUARE FOOT OF LOUVER FREE AREA IS MEASURED TO PASS THROUGH A 48" X 48" LOUVER DURING A 15 MINUTE TEST PERIOD.

PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



_____ CFM /	_____ FPM =	_____ SQFT
AIR FLOW VOLUME	FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION	REQUIRED LOUVER FREE AREA
SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE		
DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA		



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4Z375 FREE AREA CHART LOUVER WIDTH (IN)

	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.34	0.54	0.75	0.96	1.16	1.37	1.58	1.78	1.99	2.20	2.40	2.61	2.82	3.03	3.23	3.44	3.65	3.85	4.06
18	0.60	0.98	1.35	1.72	2.09	2.47	2.84	3.21	3.58	3.95	4.33	4.70	5.07	5.44	5.81	6.19	6.56	6.93	7.30
24	0.83	1.35	1.86	2.38	2.89	3.40	3.92	4.43	4.95	5.46	5.97	6.49	7.00	7.51	8.03	8.54	9.06	9.57	10.08
30	1.04	1.69	2.33	2.97	3.61	4.26	4.90	5.54	6.18	6.82	7.47	8.11	8.75	9.39	10.04	10.68	11.32	11.96	12.60
36	1.31	2.12	2.93	3.74	4.55	5.36	6.17	6.98	7.79	8.60	9.41	10.22	11.02	11.83	12.64	13.45	14.26	15.07	15.88
42	1.57	2.53	3.49	4.45	5.42	6.38	7.34	8.31	9.27	10.23	11.20	12.16	13.12	14.09	15.05	16.01	16.97	17.94	18.90
48	1.83	2.96	4.09	5.22	6.35	7.48	8.65	9.73	10.86	11.99	13.12	14.25	15.37	16.50	17.63	18.76	19.89	21.02	22.15
54	2.09	3.37	4.66	5.94	7.23	8.51	9.79	11.08	12.36	13.65	14.93	16.22	17.50	18.79	20.07	21.36	22.64	23.93	25.21
60	2.30	3.71	5.12	6.54	7.95	9.36	10.77	12.19	13.60	15.01	16.43	17.84	19.25	20.67	22.08	23.49	24.90	26.32	27.73
66	2.53	4.08	5.63	7.19	8.74	10.30	11.85	13.40	14.96	16.51	18.07	19.62	21.17	22.73	24.28	25.84	27.39	28.94	30.50
72	2.79	4.51	6.23	7.95	9.67	11.39	13.11	14.83	16.55	18.27	19.99	21.71	23.42	25.14	26.86	28.58	30.30	32.02	33.74
78	3.06	4.95	6.83	8.72	10.60	12.48	14.37	16.25	18.14	20.02	21.91	23.79	25.68	27.56	29.44	31.33	33.21	35.10	36.98
84	3.34	5.40	7.45	9.51	11.56	13.62	15.67	17.73	19.78	21.84	23.89	25.95	28.00	30.06	32.11	34.17	36.23	38.28	40.34
90	3.55	5.73	7.92	10.10	12.28	14.47	16.65	18.84	21.02	23.20	25.39	27.57	29.75	31.94	34.12	36.31	38.49	40.67	42.86

4DB4 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 4" depth, 0.081 nominal wall thickness.

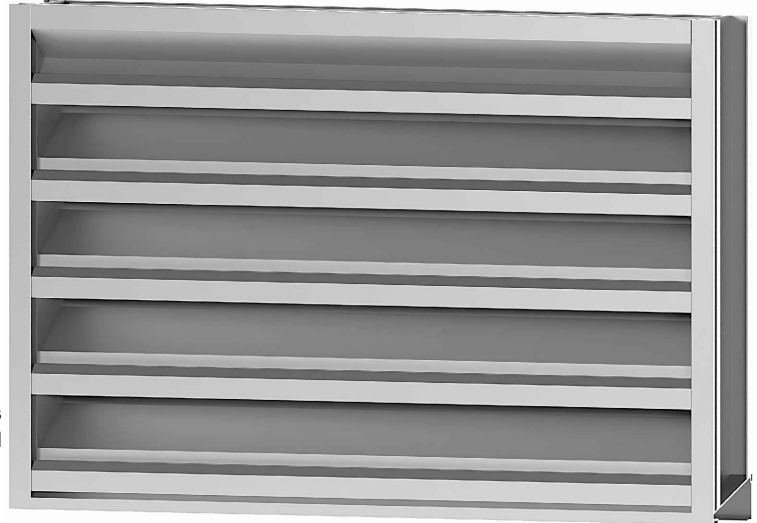
Blade: 6063-T6 extruded aluminum, 0.081 nominal wall thickness, blades positioned at 37.5 degree angle on 4" centers.

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"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly



Options:

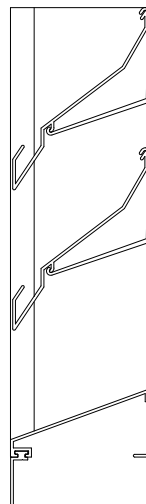
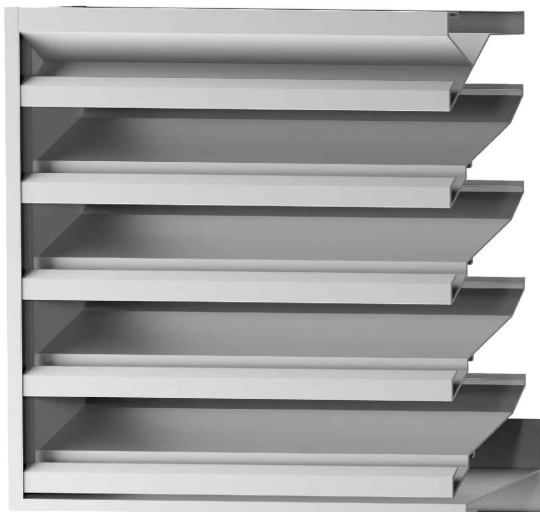
- ☐ Extended sill
- ☐ Insect screen and bird screen (various options of screen types)
- ☐ Filter racks
- ☐ Security bars
- ☐ Blank-off: alum., non-insulated sheet panels with various thickness options
- ☐ Blank-off: alum., insulated with various R value & thickness options, encapsulated within .040 sheet panels

Performance:

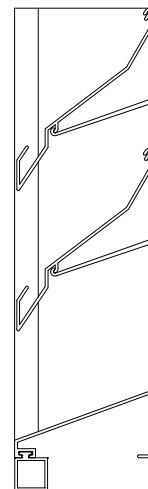
- Free Area = 51.56% (8.25 ft²)

Available Finishes:

- ☐ Kynar (2 coat & 3 coat)
- ☐ Prime coat



FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

4DB4 LOUVER PERFORMANCE DATA

4DB4 FREE AREA CHART

LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
	12	0.33	0.54	0.74	0.94	1.15	1.35	1.56	1.76	1.96	2.17	2.37	2.58	2.78	2.99	3.19	3.39	3.60	3.80	4.01
	18	0.52	0.84	1.16	1.48	1.80	2.13	2.45	2.77	3.09	3.41	3.73	4.05	4.37	4.69	5.01	5.33	5.66	5.98	6.30
	24	0.81	1.30	1.80	2.30	2.79	3.29	3.79	4.28	4.78	5.28	5.77	6.27	6.77	7.26	7.76	8.26	8.75	9.25	9.75
	30	1.00	1.61	2.22	2.84	3.45	4.06	4.68	5.29	5.90	6.52	7.13	7.74	8.36	8.97	9.58	10.20	10.81	11.42	12.04
	36	1.28	2.07	2.86	3.65	4.44	5.23	6.02	6.81	7.60	8.39	9.17	9.96	10.75	11.54	12.33	13.12	13.91	14.70	15.49
	42	1.47	2.38	3.28	4.19	5.10	6.00	6.91	7.81	8.72	9.62	10.53	11.44	12.34	13.25	14.15	15.06	15.97	16.87	17.78
	48	1.76	2.84	3.92	5.00	6.08	7.17	8.25	9.33	10.41	11.49	12.57	13.66	14.74	15.82	16.90	17.98	19.07	20.15	21.23
	54	1.95	3.15	4.34	5.54	6.74	7.94	9.14	10.34	11.53	12.73	13.93	15.13	16.33	17.53	18.72	19.92	21.12	22.32	23.52
	60	2.23	3.61	4.98	6.36	7.73	9.10	10.48	11.85	13.23	14.60	15.98	17.35	18.72	20.10	21.47	22.85	24.22	25.59	26.97
	66	2.42	3.91	5.40	6.90	8.39	9.88	11.37	12.86	14.35	15.84	17.33	18.82	20.31	21.80	23.29	24.79	26.28	27.77	29.26
	72	2.71	4.38	6.04	7.71	9.38	11.04	12.71	14.38	16.04	17.71	19.38	21.04	22.71	24.38	26.04	27.71	29.38	31.04	32.71
	78	2.90	4.68	6.46	8.25	10.03	11.81	13.60	15.38	17.16	18.95	20.73	22.52	24.30	26.08	27.87	29.65	31.43	33.22	35.00
	84	3.18	5.14	7.10	9.06	11.02	12.98	14.94	16.90	18.86	20.82	22.78	24.74	26.69	28.65	30.61	32.57	34.53	36.49	38.45
	90	3.37	5.45	7.53	9.60	11.68	13.75	15.83	17.90	19.98	22.06	24.13	26.21	28.28	30.36	32.44	34.51	36.59	38.66	40.74
	96	3.66	5.91	8.16	10.41	12.67	14.92	17.17	19.42	21.67	23.92	26.18	28.43	30.68	32.93	35.18	37.43	39.69	41.94	44.19
	102	3.85	6.22	8.59	10.95	13.32	15.69	18.06	20.43	22.80	25.16	27.53	29.90	32.27	34.64	37.01	39.37	41.74	44.11	46.48
	108	4.13	6.68	9.22	11.77	14.31	16.86	19.40	21.94	24.49	27.03	29.58	32.12	34.66	37.21	39.75	42.30	44.84	47.39	49.93
	114	4.32	6.98	9.65	12.31	14.97	17.63	20.29	22.95	25.61	28.27	30.93	33.59	36.25	38.92	41.58	44.24	46.90	49.56	52.22
	120	4.61	7.45	10.28	13.12	15.96	18.79	21.63	24.47	27.30	30.14	32.98	35.81	38.65	41.49	44.32	47.16	50.00	52.83	55.67

4ZB4 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 4" depth, 0.063 nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.063 nominal wall thickness, blades positioned at 37.5 degree angle on 4" centers.

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

Finish: Mill

Minimum size: 12"W X 12"H

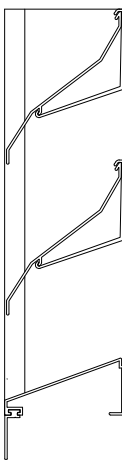
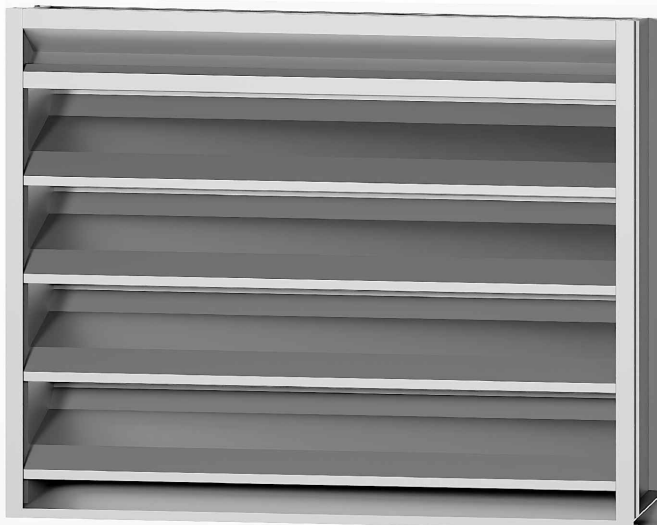
Maximum Single Section: 120"W X 84"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

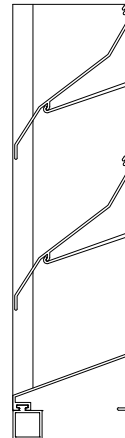
- ☐ Extended sill
- ☐ Insect screen and bird screen (various options of screen types)
- ☐ Filter racks
- ☐ Security bars
- ☐ Blank-off, alum., non-insulated, sheet panels with various thickness options
- ☐ Blank-off, alum., insulated with various R value & thickness options, encapsulated within sheet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

Available Finishes:

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



FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

APEL-4 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 4.16" depth, .081" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081" nominal wall thickness, blades positioned at 40 degree angle on 4.625" 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"H or 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.

Performance:

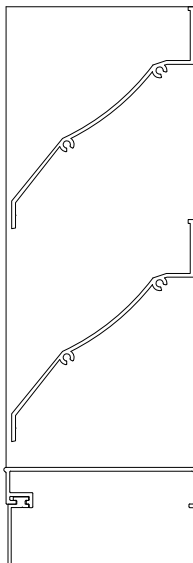
- 52.63% Free area
- Beginning point of water penetration Lies at 995 fpm

Available Finishes:

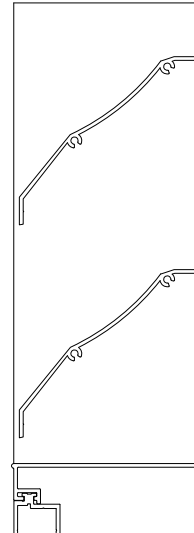
- ☐ Kynar (2 coat & 3 coat)
- ☐ Prime coat
- ☐ Clear and color anodize



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FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

APEL4 LOUVER PERFORMANCE DATA

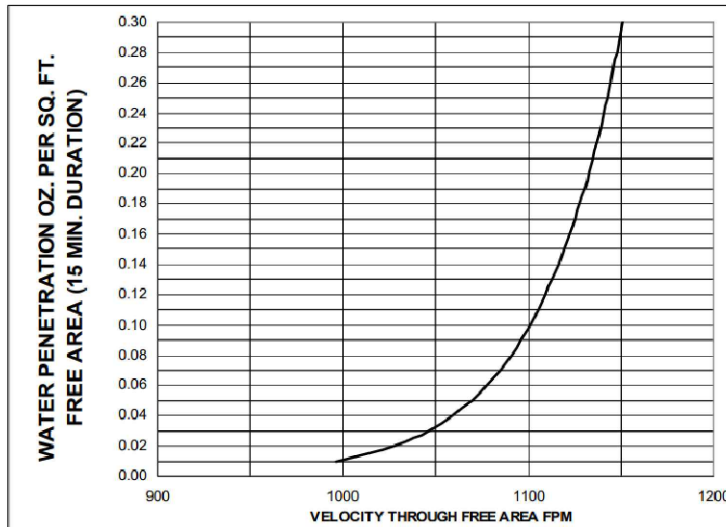
WATER PENETRATION

(BASED ON 48" X 48" LOUVER)

AMCA defines the beginning point of water penetration as the free area velocity at which .01 ounces or less of water per square foot of louver free area is measured to pass through a 48" x 48" louver during a 15 minute period. The AMCA water penetration test provides test data for the comparison of louver designs as to efficiency in resisting the penetration of rainfall under specific laboratory test conditions

Water Penetration

Standard Air-.075 lb/ft³



* Beginning point of WATER PENETRATION lies above

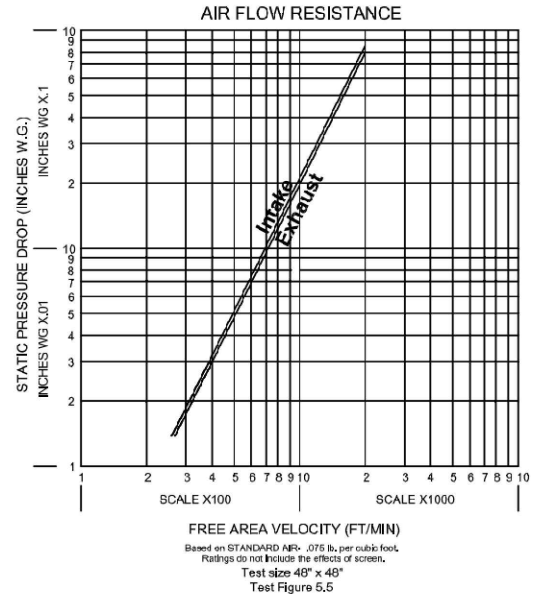
995 fpm

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PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



$$\frac{\text{CFM}}{\text{AIR FLOW VOLUME}} \div \frac{\text{FPM}}{\text{FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION}} = \frac{\text{SQFT}}{\text{REQUIRED LOUVER FREE AREA}}$$

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

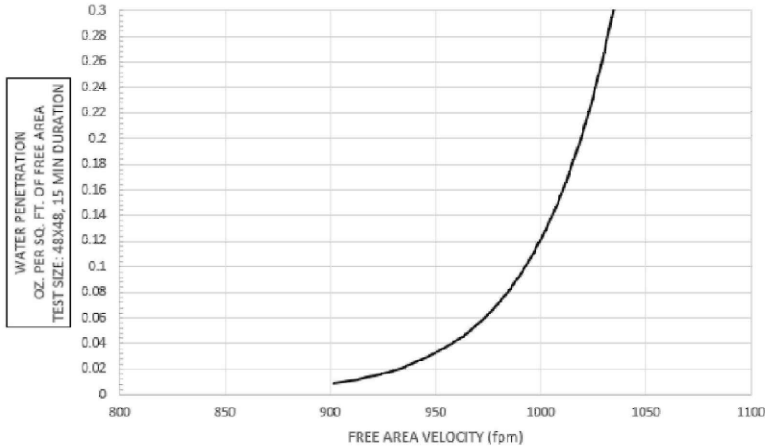
Height - Inches	Louver Height Inches	Width - Inches																		Louver Height Inches	
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120		
	12	0.35	0.57	0.78	1.00	1.21	1.43	1.65	1.86	2.08	2.29	2.51	2.72	2.94	3.16	3.37	3.59	3.80	4.02	4.24	12
	18	0.53	0.86	1.18	1.51	1.84	2.16	2.49	2.82	3.14	3.47	3.80	4.12	4.45	4.78	5.10	5.43	5.76	6.08	6.41	18
	24	0.81	1.30	1.80	2.30	2.80	3.29	3.79	4.29	4.78	5.28	5.78	6.28	6.77	7.27	7.77	8.26	8.76	9.26	9.76	24
	30	1.10	1.77	2.44	3.12	3.79	4.47	5.14	5.81	6.49	7.16	7.84	8.51	9.19	9.86	10.53	11.21	11.88	12.56	13.23	30
	36	1.29	2.08	2.87	3.66	4.46	5.25	6.04	6.83	7.62	8.42	9.21	10.00	10.79	11.58	12.38	13.17	13.96	14.75	15.54	36
	42	1.56	2.51	3.47	4.43	5.39	6.34	7.30	8.26	9.22	10.17	11.13	12.09	13.05	14.00	14.96	15.92	16.88	17.83	18.79	42
	48	1.79	2.90	4.00	5.11	6.21	7.32	8.42	9.52	10.63	11.73	12.84	13.94	15.04	16.15	17.25	18.36	19.46	20.57	21.67	48
	54	2.04	3.30	4.55	5.81	7.06	8.32	9.58	10.83	12.09	13.34	14.60	15.85	17.11	18.37	19.62	20.88	22.13	23.39	24.65	54
	60	2.31	3.73	5.15	6.57	7.99	9.40	10.82	12.24	13.66	15.08	16.50	17.92	19.34	20.76	22.18	23.60	25.02	26.44	27.86	60
	66	2.59	4.18	5.77	7.37	8.96	10.55	12.14	13.74	15.33	16.92	18.51	20.11	21.70	23.29	24.88	26.48	28.07	29.66	31.25	66
	72	2.88	4.65	6.42	8.19	9.96	11.73	13.50	15.27	17.04	18.81	20.58	22.35	24.12	25.89	27.66	29.43	31.20	32.97	34.74	72
	78	3.06	4.94	6.83	8.71	10.59	12.47	14.36	16.24	18.12	20.01	21.89	23.77	25.65	27.54	29.42	31.30	33.19	35.07	36.95	78
	84	3.33	5.39	7.44	9.49	11.54	13.59	15.64	17.70	19.75	21.80	23.85	25.90	27.95	30.01	32.06	34.11	36.16	38.21	40.26	84
	90	3.62	5.85	8.08	10.31	12.54	14.77	17.00	19.23	21.46	23.68	25.91	28.14	30.37							
	96	3.82	6.17	8.52	10.86	13.21	15.56	17.91	20.26	22.61	24.96	27.31	29.66	32.01							
	102	4.08	6.60	9.11	11.62	14.14	16.65	19.16	21.67	24.19	26.70	29.21	31.73	34.24							
	108	4.37	7.06	9.75	12.43	15.12	17.81	20.50	23.19	25.88	28.56	31.25	33.94	36.63							
	114	4.66	7.52	10.39	13.25	16.12	18.98	21.85	24.71	27.58	30.45	33.31	36.18	39.04							
120	4.83	7.81	10.78	13.76	16.73	19.71	22.68	25.66	28.63	31.61	34.58	37.56	40.53								

APHFA-4 LOUVER PERFORMANCE DATA

WATER PENETRATION

(BASED ON 48" X 48" LOUVER)

AMCA defines the beginning point of water penetration as the free area velocity at which .01 ounces or less of water per square foot of louver free area is measured to pass through a 48" x 48" louver during a 15 minute period. The AMCA water penetration test provides test data for the comparison of louver designs as to efficiency in resisting the penetration of rainfall under specific laboratory test conditions



* Beginning point of WATER PENETRATION lies above

901 fpm

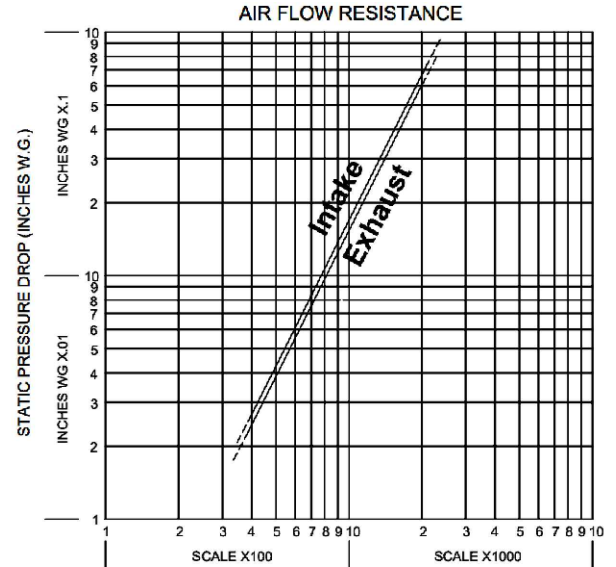


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PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



CFM / FPM = SQFT

AIR FLOW VOLUME

FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION

REQUIRED LOUVER FREE AREA

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

Height Inches	Width - Inches																			Height Inches
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	
12	0.34	0.55	0.75	0.96	1.17	1.38	1.59	1.79	2.00	2.21	2.42	2.62	2.83	3.04	3.25	3.46	3.66	3.87	4.08	12
18	0.61	0.98	1.35	1.72	2.10	2.47	2.84	3.21	3.59	3.96	4.33	4.70	5.08	5.45	5.82	6.19	6.57	6.94	7.31	18
24	0.83	1.35	1.86	2.37	2.88	3.40	3.91	4.42	4.93	5.45	5.96	6.47	6.98	7.50	8.01	8.52	9.03	9.55	10.06	24
30	1.15	1.86	2.56	3.27	3.98	4.69	5.39	6.10	6.81	7.52	8.22	8.93	9.64	10.35	11.05	11.76	12.47	13.18	13.88	30
36	1.38	2.22	3.07	3.92	4.77	5.61	6.46	7.31	8.16	9.00	9.85	10.70	11.55	12.39	13.24	14.09	14.94	15.78	16.63	36
42	1.62	2.61	3.60	4.60	5.59	6.59	7.58	8.57	9.57	10.56	11.56	12.55	13.55	14.54	15.53	16.53	17.52	18.52	19.51	42
48	1.92	3.10	4.28	5.46	6.64	7.82	9.00	10.18	11.37	12.55	13.73	14.91	16.09	17.27	18.45	19.63	20.81	21.99	23.17	48
54	2.15	3.47	4.79	6.12	7.44	8.76	10.08	11.41	12.73	14.05	15.37	16.70	18.02	19.34	20.66	21.99	23.31	24.63	25.95	54
60	2.47	3.98	5.50	7.02	8.54	10.05	11.57	13.09	14.61	16.12	17.64	19.16	20.68	22.19	23.71	25.23	26.75	28.26	29.78	60
66	2.69	4.35	6.01	7.67	9.32	10.98	12.64	14.30	15.95	17.61	19.27	20.93	22.58	24.24	25.90	27.56	29.21	30.87	32.53	66
72	2.93	4.74	6.54	8.34	10.15	11.95	13.76	15.56	17.37	19.17	20.97	22.78	24.58	26.39	28.19	29.99	31.80	33.60	35.41	72
78	3.24	5.23	7.22	9.22	11.21	13.20	15.19	17.19	19.18	21.17	23.16	25.16	27.15	29.14	31.13	33.13	35.12	37.11	39.10	78
84	3.47	5.60	7.73	9.86	12.00	14.13	16.26	18.39	20.53	22.66	24.79	26.92	29.06	31.19	33.32	35.45	37.59	39.72	41.85	84
90	3.78	6.11	8.44	10.76	13.09	15.42	17.75	20.07	22.40	24.73	27.06	29.38	31.71							90
96	4.01	6.48	8.94	11.41	13.88	16.35	18.81	21.28	23.75	26.22	28.68	31.15	33.62							96
102	4.25	6.86	9.48	12.09	14.70	17.32	19.93	22.55	25.16	27.78	30.39	33.00	35.62							102
108	4.55	7.36	10.16	12.96	15.76	18.57	21.37	24.17	26.97	29.78	32.58	35.38	38.18							108
114	4.78	7.72	10.67	13.61	16.55	19.49	22.44	25.38	28.32	31.26	34.21	37.15	40.09							114
120	5.10	8.24	11.37	14.51	17.65	20.79	23.92	27.06	30.20	33.34	36.47	39.61	42.75							120

APHV-4 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 4" depth, 0.081" nominal wall thickness.

Front Blade: 6063-T6 extruded aluminum, 0.060" nominal wall thickness at 1.50" centers

Rear Blade: 6063-T6 extruded aluminum, 0.060" nominal wall thickness at 0.75" centers

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

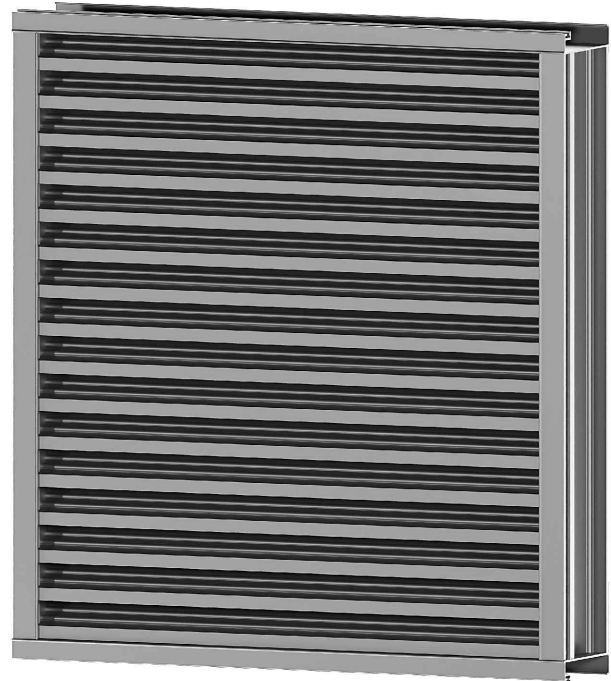
Finish: mill

Minimum Size: 12"W x 12"H

Maximum Single Section: 120"W x 84"H or 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.



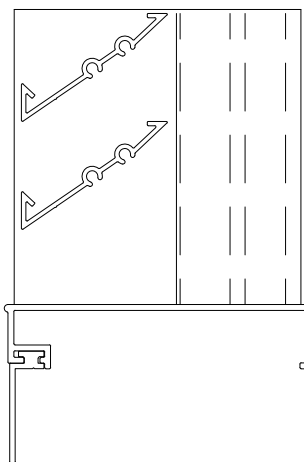
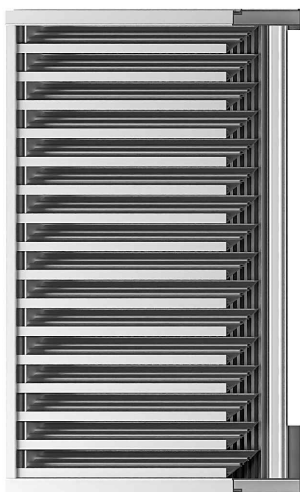
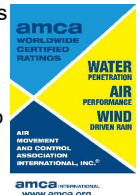
PERFORMANCE:

- 48.44% FREE AREA
- Beginning point of water penetration above 1250 fpm

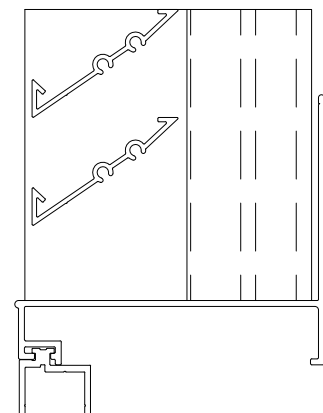
AVAILABLE FINISHES:

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

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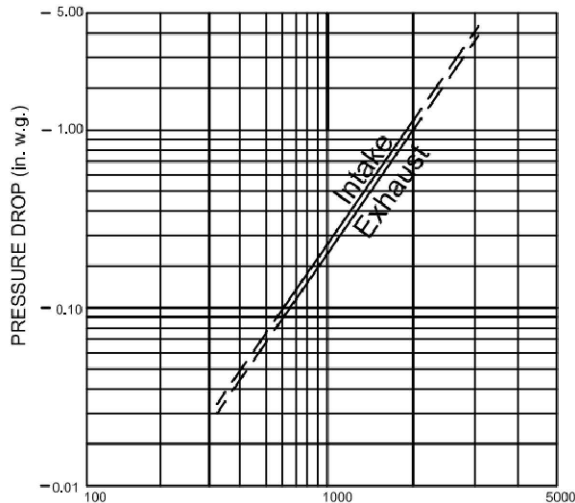
FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

APHV4 STATIONARY LOUVER PERFORMANCE

Air Flow Resistance



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"
TEST FIGURE 5.5
INTAKE & EXHAUST

* Beginning point of WATER PENETRATION lies above
1250 fpm



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Lower Height Inches	Width - Inches																		Lower Height Inches		
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114		120	
Height - Inches	12	0.35	0.58	0.82	1.05	1.28	1.52	1.75	1.98	2.22	2.45	2.68	2.92	3.15	3.39	3.62	3.85	4.09	4.32	4.55	12
	18	0.58	0.93	1.30	1.67	2.04	2.41	2.78	3.15	3.52	3.89	4.26	4.63	5.00	5.37	5.74	6.11	6.48	6.85	7.22	18
	24	0.78	1.27	1.77	2.28	2.79	3.29	3.80	4.31	4.81	5.32	5.83	6.34	6.84	7.35	7.86	8.36	8.87	9.38	9.88	24
	30	0.97	1.61	2.25	2.90	3.54	4.18	4.83	5.47	6.11	6.76	7.40	8.04	8.69	9.33	9.97	10.62	11.26	11.90	12.55	30
	36	1.17	1.95	2.73	3.51	4.29	5.07	5.85	6.63	7.41	8.19	8.97	9.75	10.53	11.31	12.09	12.87	13.65	14.43	15.21	36
	42	1.38	2.29	3.21	4.13	5.04	5.96	6.88	7.79	8.71	9.63	10.54	11.46	12.38	13.29	14.21	15.13	16.04	16.96	17.88	42
	48	1.58	2.63	3.69	4.74	5.79	6.85	7.75	8.95	10.01	11.06	12.11	13.17	14.22	15.28	16.33	17.38	18.44	19.49	20.54	48
	54	1.79	2.98	4.17	5.36	6.55	7.74	8.93	10.12	11.31	12.50	13.69	14.88	16.07	17.26	18.45	19.64	20.83	22.02	23.21	54
	60	1.99	3.32	4.64	5.97	7.30	8.62	9.95	11.28	12.60	13.93	15.26	16.59	17.91	19.24	20.57	21.89	23.22	24.55	25.87	60
	66	2.20	3.66	5.12	6.59	8.05	9.51	10.98	12.44	13.90	15.37	16.83	18.29	19.76	21.22	22.68	24.15	25.61	27.07	28.54	66
	72	2.40	4.00	5.60	7.20	8.80	10.40	12.00	13.60	15.20	16.80	18.40	20.00	21.60	23.20	24.80	26.40	28.00	29.60	31.20	72
	78	2.61	4.34	6.08	7.82	9.55	11.29	13.03	14.76	16.50	18.24	19.97	21.71	23.45	25.18	26.92	28.66	30.39	32.13	33.87	78
	84	2.81	4.68	6.56	8.43	10.30	12.18	14.05	15.92	17.80	19.67	21.54	23.42	25.29	27.17	29.04	30.91	32.79	34.66	36.53	84
	90	3.02	5.03	7.04	9.05	11.06	13.07	15.08	17.09	19.10	21.11	23.12	25.13	27.14							90
	96	3.22	5.37	7.51	9.66	11.81	13.95	16.10	18.25	20.39	22.54	24.69	26.84	28.98							96
	102	3.43	5.71	7.99	10.28	12.56	14.84	17.13	19.41	21.69	23.96	26.28	28.54	30.83							102
108	3.63	6.05	8.47	10.89	13.31	15.73	18.15	20.57	22.99	25.41	27.83	30.25	32.67							108	
114	3.84	6.39	8.95	11.51	14.06	16.62	19.18	21.73	24.29	26.85	29.40	31.96	34.52							114	
120	4.04	6.73	9.43	12.12	14.81	17.51	20.20	22.89	25.59	28.28	30.97	33.67	36.36							120	

75 mm/h (3 in/h) Rainfall & 13 m/s (29 mph) Wind Velocity				
Core Velocity fpm (m/s)	Airflow cfm (m³/s)	Free Area Velocity fpm (m/s)	Effectiveness Ratio	AMCA Effectiveness Class
0 (0.0)	0 (0.00)	0 (0.0)	100.0	A
96 (0.5)	1055 (0.50)	184 (0.9)	100.0	A
197 (1.0)	2121 (1.00)	371 (1.9)	100.0	A
295 (1.5)	3175 (1.50)	555 (2.8)	100.0	A
394 (2.0)	4241 (2.00)	741 (3.8)	100.0	A
492 (2.5)	5296 (2.50)	926 (4.7)	100.0	A
591 (3.0)	6362 (3.00)	1112 (5.6)	100.0	A
689 (3.5)	7416 (3.50)	1297 (6.6)	100.0	A
787 (4.0)	8471 (4.00)	1481 (7.5)	100.0	A
885 (4.5)	9537 (4.50)	1667 (8.5)	100.0	A
984 (5.0)	10592 (5.00)	1852 (9.4)	100.0	A

202.4 mm/h (8 in/h) Rainfall & 22 m/s (50 mph) Wind Velocity				
Core Velocity fpm (m/s)	Airflow cfm (m³/s)	Free Area Velocity fpm (m/s)	Effectiveness Ratio	AMCA Effectiveness Class
0 (0.0)	0 (0.00)	0 (0.0)	100.0	A
96 (0.5)	1033 (0.49)	181 (0.9)	100.0	A
194 (1.0)	2088 (0.99)	365 (1.9)	100.0	A
284 (1.4)	3057 (1.44)	534 (2.7)	100.0	A
400 (2.0)	4306 (2.03)	753 (3.8)	100.0	A
496 (2.5)	5339 (2.52)	933 (4.7)	100.0	A
577 (2.9)	6211 (2.93)	1086 (5.5)	100.0	A
674 (3.4)	7255 (3.42)	1268 (6.4)	99.0	A
791 (4.0)	8514 (4.02)	1489 (7.8)		A

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

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

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

5WDRL-HP STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 5" depth, 0.081 nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081 nominal wall thickness, blades positioned on 2" 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"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

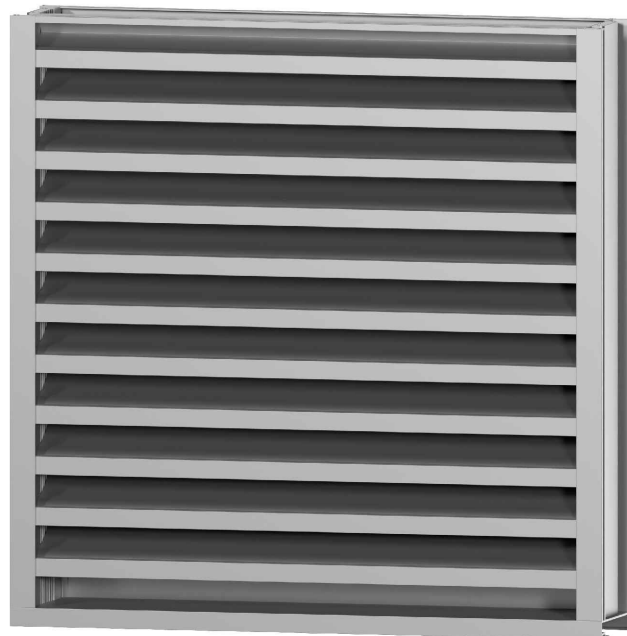
- ☐ Extended sill
- ☐ Insect screen and bird screen (various options of screen types)
- ☐ Filter racks
- ☐ Security bars
- ☐ Blank-off, alum., non-insulated, sheet panels with various thickness options
- ☐ Blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet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

Performance:

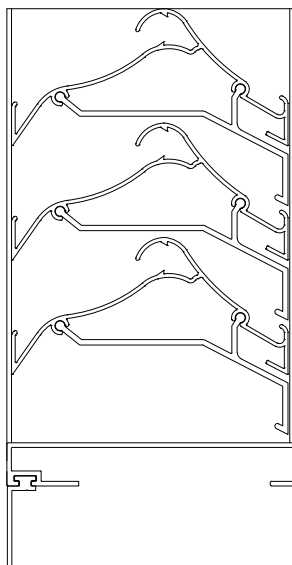
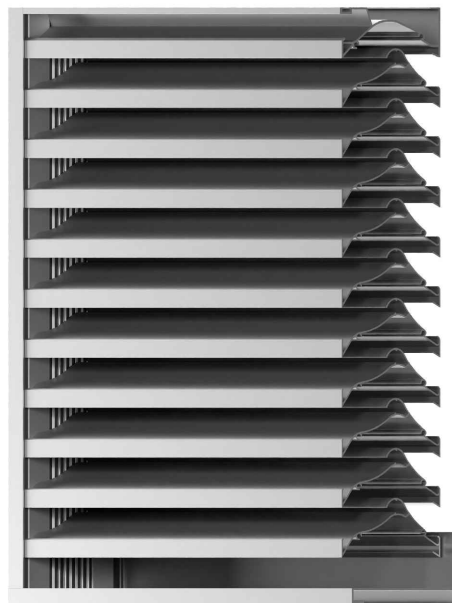
- 45.94% Free area
- Wind Driven Rain "A" Rating

Available Finishes:

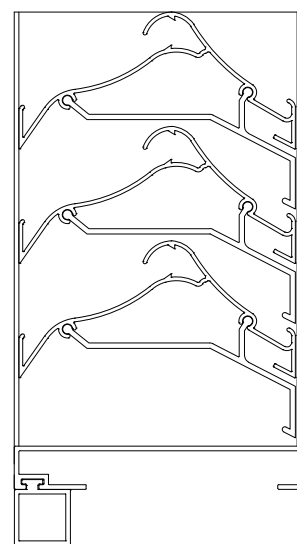
- ☐ Kynar (2 coat & 3 coat)
- ☐ Prime coat
- ☐ Clear and color anodize



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FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

5WDRL-HP LOUVER PERFORMANCE DATA

WIND-DRIVEN RAIN PERFORMANCE

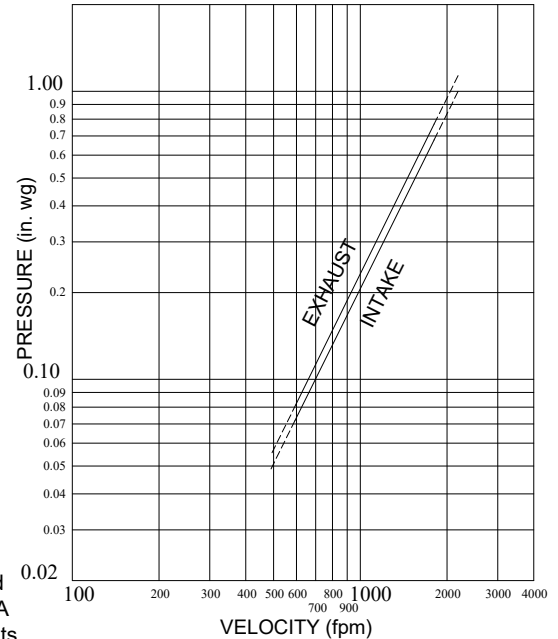
(BASED ON 39.375" X 39.375" LOUVER)

Wind Velocity (mph)	Rain Fall Rate (in/hr)	Core Velocity (fpm)	Air Flow (cfm)	Free Area Velocity (fpm)	Effectiveness Ratio	Class	Discharge Loss Class
29	3	593	6387	1291	99.3	A	3
29	3	993	10695	1925	85.6	C	3

Wind-Driven Rain Penetration Class		Discharge Loss Coefficient Class	
Class	Effectiveness	Class	Discharge Loss Coefficient
A	1 to 0.99	1	0.4 and Above
B	0.989 to 0.95	2	0.3 to 0.399
C	0.949 to 0.80	3	0.2 to 0.299
D	Below 0.80	4	0.199 and Below

PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



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 air performance and wind driven rain ratings for rectangular louvers only.

CFM /	FPM =	SQFT
AIR FLOW VOLUME	FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION	REQUIRED LOUVER FREE AREA
SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE		
DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA		

5WDRL-HP FREE AREA CHART LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.26	0.42	0.58	0.73	0.89	1.05	1.21	1.37	1.53	1.69	1.84	2.00	2.16	2.32	2.48	2.64	2.80	2.96	3.11
18	0.48	0.77	1.06	1.35	1.65	1.94	2.23	2.53	2.83	3.11	3.40	3.70	3.99	4.28	4.58	4.87	5.16	5.45	5.75
24	0.69	1.12	1.55	1.97	2.40	2.83	3.26	3.68	4.11	4.54	4.96	5.39	5.92	6.24	6.67	7.10	7.53	7.95	8.38
30	0.91	1.47	2.03	2.60	3.16	3.72	4.28	4.84	5.40	5.96	6.52	7.08	7.64	8.21	8.77	9.33	9.89	10.45	11.01
36	1.13	1.82	2.52	3.22	3.91	4.61	5.30	6.00	6.69	7.39	8.08	8.78	9.47	10.17	10.86	11.56	12.25	12.95	13.84
42	1.35	2.18	3.01	3.84	4.67	5.49	6.32	7.15	7.98	8.81	9.64	10.47	11.30	12.13	12.96	13.79	14.62	15.45	16.28
48	1.57	2.53	3.49	4.46	5.42	6.38	7.35	8.31	9.27	10.24	11.20	12.16	13.13	14.09	15.05	16.02	16.98	17.94	18.91
54	1.78	2.88	3.98	5.08	6.17	7.27	8.37	9.47	10.56	11.66	12.76	13.86	14.95	16.05	17.15	18.25	19.34	20.44	21.54
60	2.00	3.23	4.46	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	2.22	3.59	4.95	6.32	7.68	9.05	10.41	11.78	13.15	14.51	15.88	17.24	18.61	19.98	21.34	22.71	24.07	25.44	26.80
72	2.44	3.94	5.44	6.94	8.44	9.94	11.44	12.94	14.44	15.94	17.44	18.94	20.44	21.94	23.44	24.94	26.44	27.94	29.44
78	2.66	4.29	5.92	7.56	9.19	10.83	12.46	14.09	15.73	17.36	19.00	20.63	22.26	23.90	25.53	27.17	28.80	30.43	32.07
84	2.87	4.64	6.41	8.18	9.95	11.71	13.48	15.25	17.02	18.79	20.56	22.32	24.09	25.86	27.63	29.40	31.16	32.93	34.70
90	3.09	4.99	6.90	8.80	10.70	12.60	14.51	16.41	18.31	20.21	22.11	24.02	25.92	27.82	29.72	31.63	33.53	35.43	37.33
96	3.31	5.35	7.38	9.42	11.46	13.49	15.53	17.56	19.60	21.64	23.67	25.71	27.75	29.78	31.82	33.86	35.89	37.93	39.97
102	3.53	5.70	7.87	10.04	12.21	14.38	16.55	18.72	20.89	23.06	25.23	27.40	29.57	31.74	33.92	36.09	38.26	40.43	42.60
108	3.75	6.05	8.35	10.66	12.96	15.27	17.57	19.88	22.18	24.49	26.79	29.10	31.40	33.71	36.01	38.32	40.62	42.93	45.23
114	3.96	6.40	8.84	11.29	13.72	16.16	18.60	21.03	23.47	25.91	28.35	30.79	33.23	35.67	38.11	40.55	42.98	45.42	47.86
120	4.18	6.75	9.33	11.90	14.47	17.05	19.62	22.19	24.76	27.34	29.91	32.48	35.06	37.63	40.20	42.78	45.35	47.92	50.49

5WDRL STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 5" depth, 0.081 nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081 nominal wall thickness, blades positioned on 2.125" 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"H or 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.

Performance:

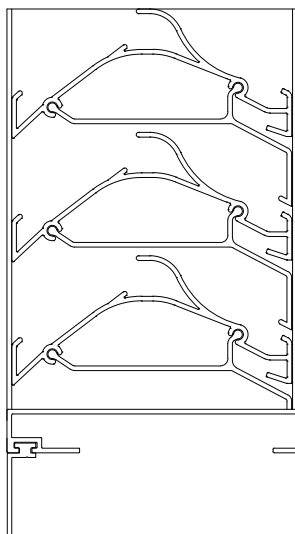
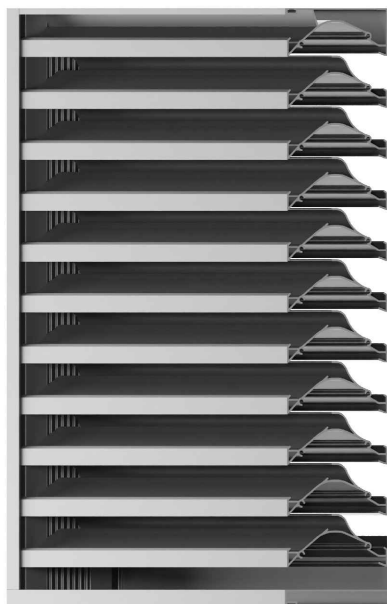
- 52.13% Free area
- Wind Driven Rain "B" Rating

Available Finishes:

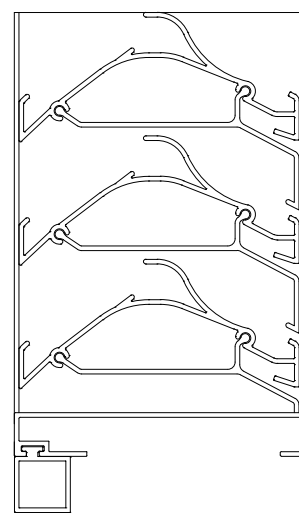
- ☐ Kynar (2 coat & 3 coat)
- ☐ Prime coat
- ☐ Clear and color anodize



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 air performance and wind driven rain ratings for rectangular louvers only.



FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

5WDRL LOUVER PERFORMANCE DATA

WIND-DRIVEN RAIN PERFORMANCE

(BASED ON 39.375" X 39.375" LOUVER)

Wind Velocity (mph)	Rain Fall Rate (in/hr)	Core Velocity (fpm)	Air Flow (cfm)	Free Area Velocity (fpm)	Effectiveness Ratio	Class	Discharge Loss Class
29	3	299	3223	573	95.5	B	3
29	3	393	4234	754	85	C	3

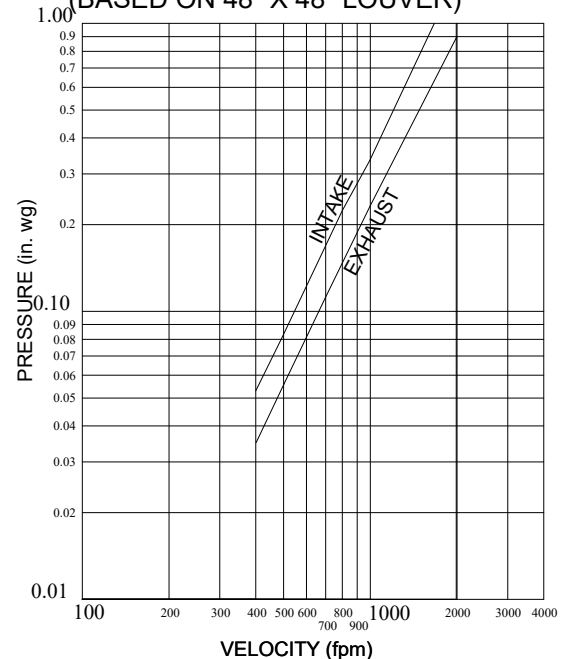
Wind-Driven Rain Penetration Class		Discharge Loss Coefficient Class	
Class	Effectiveness	Class	Discharge Loss Coefficient
A	1 to 0.99	1	0.4 and Above
B	0.989 to 0.95	2	0.3 to 0.399
C	0.949 to 0.80	3	0.2 to 0.299
D	Below 0.80	4	0.199 and Below

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PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



_____ CFM /	_____ FPM =	_____ SQFT
AIR FLOW VOLUME	FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION	REQUIRED LOUVER FREE AREA

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

5WDRL FREE AREA CHART

LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)

5WDRL-V STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 5" depth, 0.081 nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081 nominal wall thickness, blades positioned on 2.000" 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"H or 84"W x 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

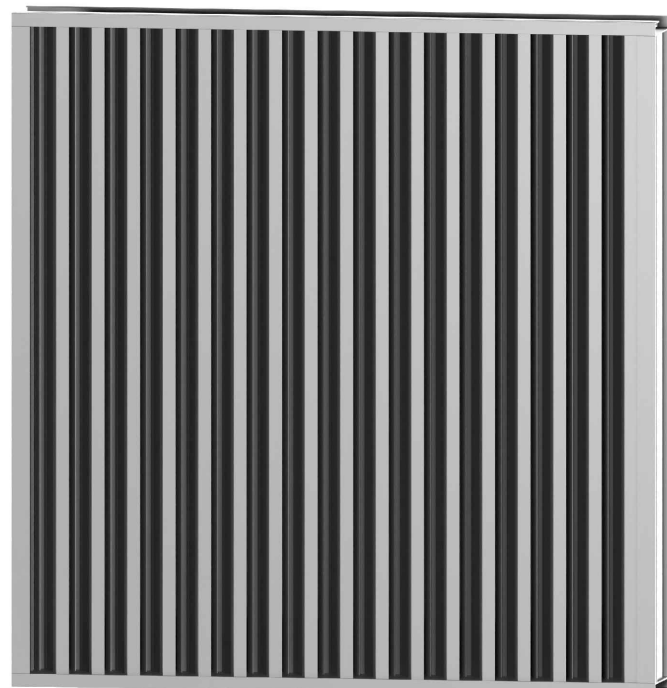
- ☐ Extended sill
- ☐ Insect screen and bird screen (various options of screen types)
- ☐ Filter racks
- ☐ Security bars
- ☐ Blank-off, alum., non-insulated, sheet panels with various thickness options
- ☐ Blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet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

Performance:

- 43% Free area
- Beginning point of water penetration 916.5
- Wind Driven Rain "A" Rating

Available Finishes:

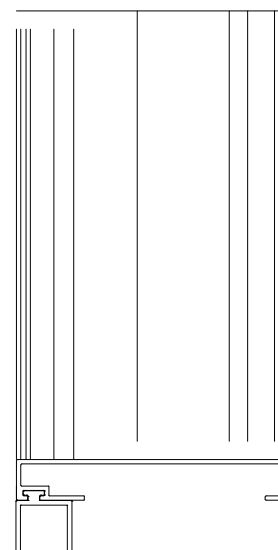
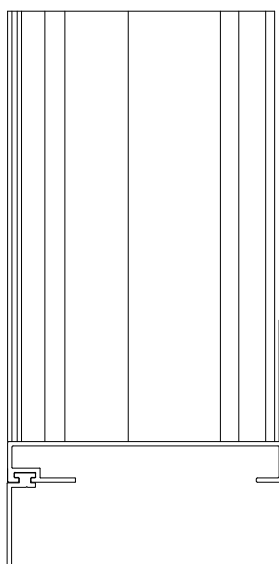
- ☐ Kynar (2 coat & 3 coat)
- ☐ Prime coat
- ☐ Clear and color anodize



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, air performance, and wind driven rain ratings for rectangular louvers only.



FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

5WDRL-V LOUVER PERFORMANCE DATA

WIND-DRIVEN RAIN PERFORMANCE

(BASED ON 39.375" X 39.375" LOUVER)

Wind Velocity (mph)	Rain Fall Rate (in/hr)	Core Velocity (fpm)	Air Flow (cfm)	Free Area Velocity (fpm)	Effectiveness Ratio	Class	Discharge Loss Class
29	3	779	8389	1691	100	A	3
29	3	865	9310	1877	99.9	A	3
29	3	993	10692	2156	98.2	B	3
50	8	568	6113	1232	99.3	A	3
50	8	776	8351	1684	95.9	B	3

Wind-Driven Rain Penetration Class		Discharge Loss Coefficient Class	
Class	Effectiveness	Class	Discharge Loss Coefficient
A	1 to 0.99	1	0.4 and Above
B	0.989 to 0.95	2	0.3 to 0.399
C	0.949 to 0.80	3	0.2 to 0.299
D	Below 0.80	4	0.199 and Below

* Beginning point of WATER PENETRATION lies above

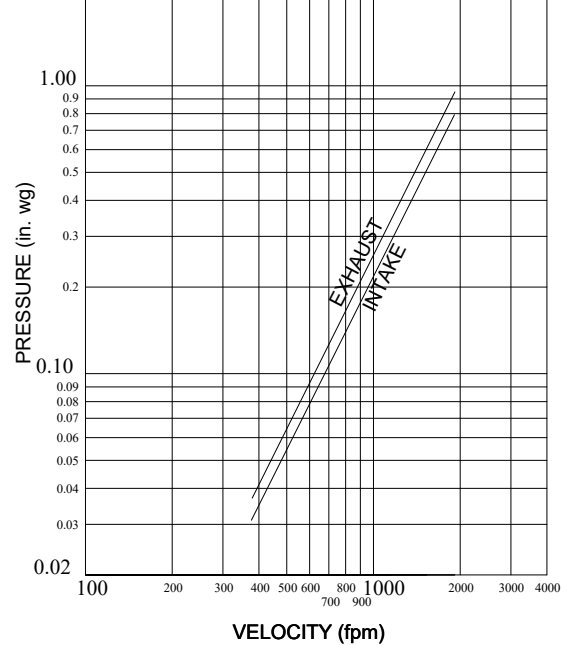
916.5 fpm

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PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



$$\frac{\text{CFM}}{\text{AIR FLOW VOLUME}} \div \frac{\text{FPM}}{\text{FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION}} = \frac{\text{SQFT}}{\text{REQUIRED LOUVER FREE AREA}}$$

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

5WDRL-V FREE AREA CHART

LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)

	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.17	0.30	0.43	0.56	0.69	0.82	0.95	1.08	1.21	1.33	1.46	1.59	1.72	1.85	1.98	2.11	2.24	2.37	2.50
18	0.35	0.62	0.88	1.14	1.41	1.67	1.94	2.20	2.46	2.73	2.99	3.25	3.52	3.78	4.05	4.31	4.57	4.84	5.10
24	0.53	0.93	1.33	1.73	2.13	2.52	2.92	3.32	3.72	4.12	4.52	4.92	5.32	5.71	6.11	6.51	6.91	7.31	7.71
30	0.71	1.24	1.78	2.31	2.84	3.38	3.91	4.44	4.98	5.51	6.05	6.58	7.11	7.65	8.18	8.71	9.25	9.78	10.31
36	0.89	1.56	2.23	2.90	3.56	4.23	4.90	5.57	6.24	6.90	7.57	8.24	8.91	9.58	10.24	10.91	11.58	12.25	12.92
42	1.07	1.87	2.68	3.48	4.28	5.08	5.89	6.69	7.49	8.30	9.10	9.90	10.71	11.51	12.31	13.11	13.92	14.72	15.52
48	1.25	2.19	3.13	4.06	5.00	5.94	6.88	7.81	8.75	9.69	10.63	11.56	12.50	13.44	14.38	15.31	16.25	17.19	18.13
54	1.43	2.50	3.57	4.65	5.72	6.79	7.86	8.94	10.01	11.08	12.15	13.23	14.30	15.37	16.44	17.52	18.59	19.66	20.73
60	1.61	2.82	4.02	5.23	6.44	7.65	8.85	10.06	11.27	12.47	13.68	14.89	16.10	17.30	18.51	19.72	20.92	22.13	23.34
66	1.79	3.13	4.47	5.81	7.16	8.50	9.84	11.18	12.52	13.87	15.21	16.55	17.89	19.23	20.58	21.92	23.26	24.60	25.94
72	1.97	3.45	4.92	6.40	7.88	9.35	10.83	12.31	13.78	15.26	16.74	18.21	19.69	21.17	22.64	24.12	25.60	27.07	28.55
78	2.15	3.76	5.37	6.98	8.59	10.21	11.82	13.43	15.04	16.65	18.26	19.87	21.49	23.10	24.71	26.32	27.93	29.54	31.15
84	2.33	4.07	5.82	7.57	9.31	11.06	12.80	14.55	16.30	18.04	19.79	21.54	23.28	25.03	26.77	28.52	30.27	32.01	33.76
90	2.51	4.39	6.27	8.15	10.03	11.91	13.79	15.67	17.55	19.44	21.32	23.20	25.08	26.96	28.84	30.72	32.60	34.48	36.36
96	2.69	4.70	6.72	8.73	10.75	12.77	14.78	16.80	18.81	20.83	22.84	24.86	26.88	28.89	30.91	32.92	34.94	36.95	38.97
102	2.87	5.02	7.17	9.32	11.47	13.62	15.77	17.92	20.07	22.22	24.37	26.52	28.67	30.82	32.97	35.12	37.27	39.42	41.57
108	3.05	5.33	7.62	9.90	12.19	14.47	16.76	19.04	21.33	23.61	25.90	28.18	30.47	32.75	35.04	37.32	39.61	41.89	44.18
114	3.23	5.65	8.07	10.49	12.91	15.33	17.75	20.17	22.59	25.01	27.43	29.85	32.27	34.69	37.10	39.52	41.94	44.36	46.78
120	3.41	5.97	8.52	11.07	13.62	16.18	18.73	21.29	23.84	26.40	28.95	31.51	34.06	36.62	39.17	41.73	44.28	46.83	49.39

5WDRL-MD STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 5" depth, 0.081 nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081 nominal wall thickness, blades positioned on 2.125" 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: 80"W X 96"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.

Performance:

- 52.13% Free area
- Wind Driven Rain "B" Rating
- Miami Dade Approved

Available Finishes:

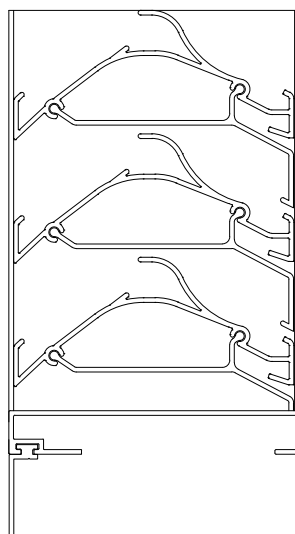
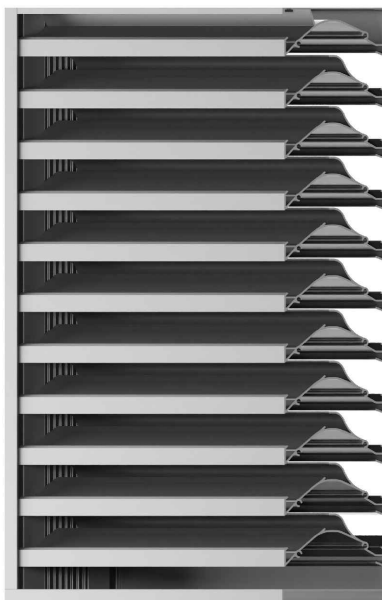
- ☐ Kynar (2 coat & 3 coat)
- ☐ Prime coat
- ☐ Clear and color anodize



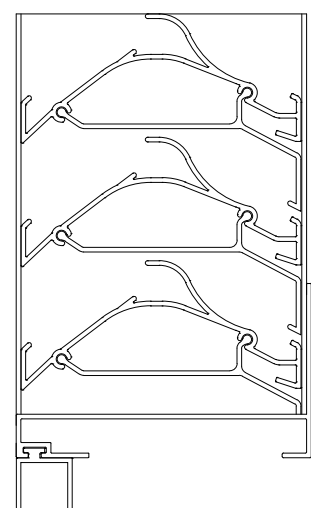
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**Miami Dade Approved
NOA No. 20-1104.21**



FLANGE ADAPTER OPTION



**GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)**

5WDRL-MD LOUVER PERFORMANCE DATA

WIND-DRIVEN RAIN PERFORMANCE

(BASED ON 39.375" X 39.375" LOUVER)

Wind Velocity (mph)	Rain Fall Rate (in/hr)	Core Velocity (fpm)	Air Flow (cfm)	Free Area Velocity (fpm)	Effectiveness Ratio	Class	Discharge Loss Class
29	3	299	3223	476	95.3	B	3
29	3	393	4234	628	85	C	3

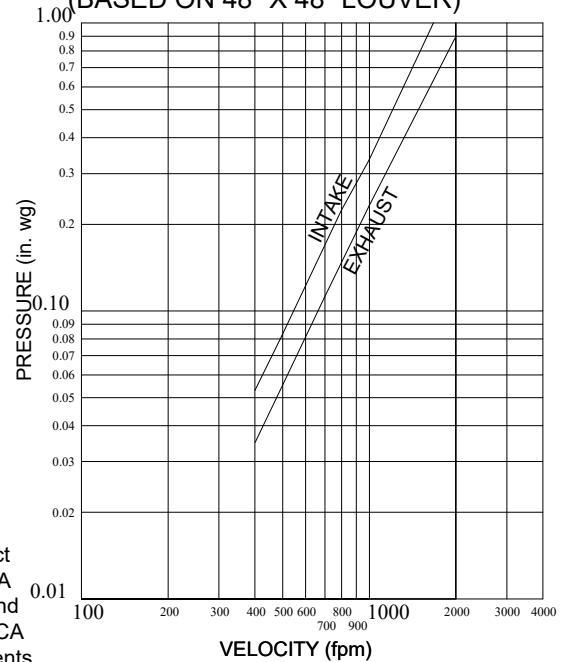
Wind-Driven Rain Penetration Class		Discharge Loss Coefficient Class	
Class	Effectiveness	Class	Discharge Loss Coefficient
A	1 to 0.99	1	0.4 and Above
B	0.989 to 0.95	2	0.3 to 0.399
C	0.949 to 0.80	3	0.2 to 0.299
D	Below 0.80	4	0.199 and Below



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PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



$\frac{\text{CFM}}{\text{AIR FLOW VOLUME}} \div \frac{\text{FPM}}{\text{FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION}} = \frac{\text{SQFT}}{\text{REQUIRED LOUVER FREE AREA}}$

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

5WDRL-HP FREE AREA CHART

LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.29	0.47	0.65	0.82	1.00	1.18	1.36	1.54	1.71	1.89	2.07	2.25	2.43	2.61	2.78	2.96	3.14	3.32	3.50
18	0.53	0.85	1.18	1.50	1.83	2.15	2.48	2.80	3.13	3.45	3.78	4.10	4.43	4.75	5.08	5.40	5.73	6.05	6.38
24	0.79	1.28	1.77	2.25	2.74	3.23	3.72	4.20	4.69	5.18	5.67	6.15	6.64	7.13	7.62	8.10	8.59	9.08	9.57
30	1.06	1.71	2.36	3.01	3.66	4.31	4.96	5.61	6.26	6.91	7.56	8.21	8.86	9.51	10.16	10.81	11.46	12.11	12.76
36	1.30	2.10	2.90	3.70	4.50	5.30	6.10	6.90	7.70	8.50	9.30	10.10	10.90	11.70	12.50	13.30	14.10	14.90	15.70
42	1.54	2.49	3.43	4.38	5.33	6.27	7.22	8.17	9.11	10.06	11.01	11.95	12.90	13.85	14.79	15.74	16.69	17.64	18.58
48	1.78	2.87	3.96	5.06	6.15	7.25	8.34	9.43	10.53	11.62	12.72	13.81	14.90	16.00	17.09	18.18	19.28	20.37	21.47
54	2.02	3.27	4.52	5.76	7.01	8.25	9.50	10.75	11.99	13.24	14.48	15.73	16.97	18.22	19.47	20.71	21.96	23.20	24.45
60	2.29	3.70	5.11	6.51	7.92	9.33	10.74	12.15	13.56	14.96	16.37	17.78	19.19	20.60	22.01	23.41	24.82	26.23	27.64
66	2.55	4.12	5.69	7.26	8.82	10.39	11.96	13.53	15.10	16.67	18.24	19.81	21.37	22.94	24.51	26.08	27.65	29.22	30.79
72	2.79	4.51	6.23	7.94	9.66	11.38	13.10	14.82	16.53	18.25	19.97	21.69	23.40	25.12	26.84	28.56	30.28	31.99	33.71
78	3.03	4.89	6.76	8.62	10.49	12.35	14.22	16.08	17.95	19.81	21.68	23.54	25.41	27.27	29.13	31.00	32.86	34.73	36.59
84	3.27	5.27	7.28	9.29	11.30	13.31	15.32	17.33	19.34	21.35	23.36	25.37	27.38	29.39	31.40	33.41	35.42	37.43	39.44
90	3.52	5.69	7.85	10.02	12.19	14.35	16.52	18.69	20.85	23.02	25.19	27.35	29.52	31.69	33.85	36.02	38.19	40.35	42.52
96	3.78	6.11	8.44	10.77	13.10	15.43	17.76	20.09	22.42	24.75	27.08	29.41	31.73	34.06	36.39	38.72	41.05	43.38	45.71
102	4.04	6.52	9.01	11.49	13.97	16.46	18.94	21.43	23.91	26.40	28.88	31.37	33.85	36.33	38.82	41.30	43.79	46.27	48.76
108	4.28	6.91	9.54	12.17	14.80	17.43	20.06	22.69	25.33	27.96	30.59	33.22	35.85	38.48	41.11	43.75	46.38	49.01	51.64
114	4.51	7.29	10.07	12.85	15.63	18.41	21.18	23.96	26.74	29.52	32.30	35.07	37.85	40.63	43.41	46.19	48.97	51.74	54.52
120	4.75	7.68	10.60	13.53	16.45	19.38	22.30	25.23	28.15	31.08	34.00	36.93	39.85	42.78	45.70	48.63	51.55	54.48	57.40

6D375 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 6" depth, 0.125 nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.125 nominal wall thickness, blades positioned at 37.5 degree angle on 5.938" 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"H or 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 .040 sheet panels

Performance:

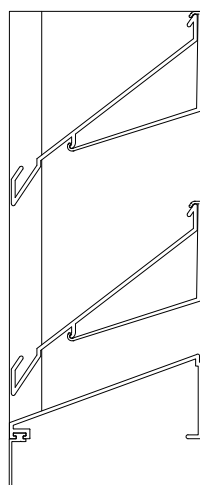
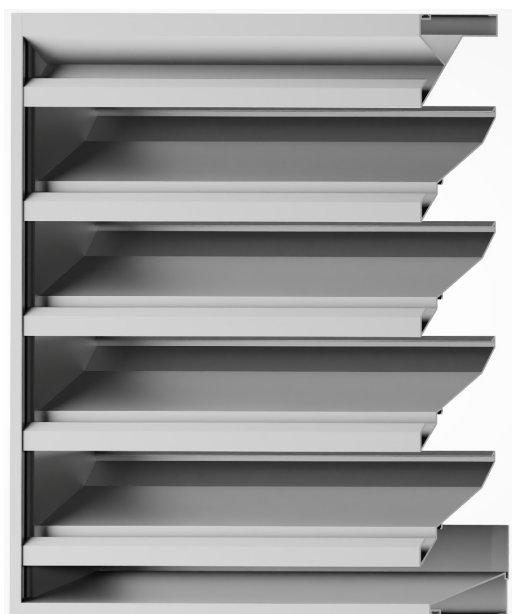
- Free Area = 57.3% (9.17 ft²)
- Beginning point of water penetration = 962 fpm

Available Finishes:

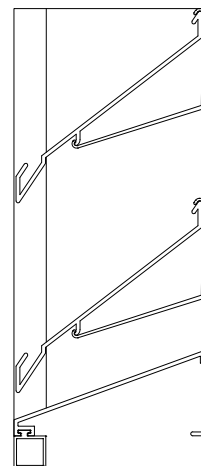
- ☐ Kynar (2 coat & 3 coat)
- ☐ Prime coat



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 ratings seal applies to water penetration and air performance ratings for rectangular louvers only.



FLANGE ADAPTER OPTION

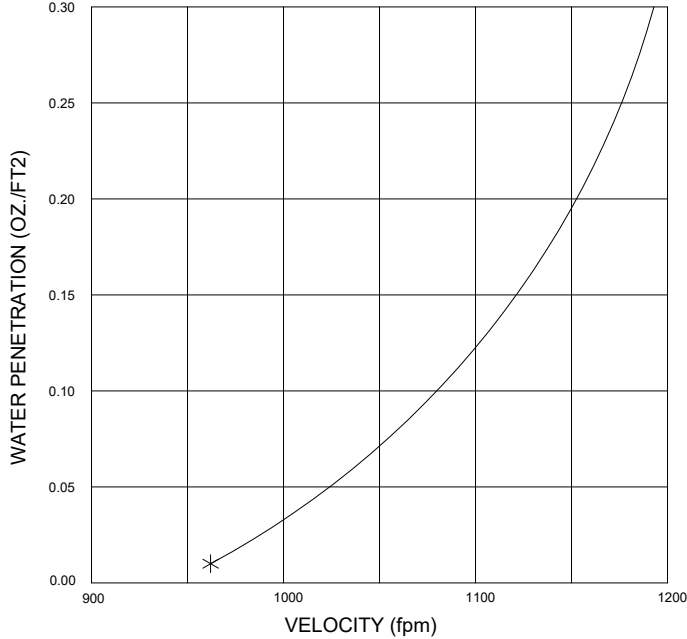


GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

6D375 LOUVER PERFORMANCE DATA

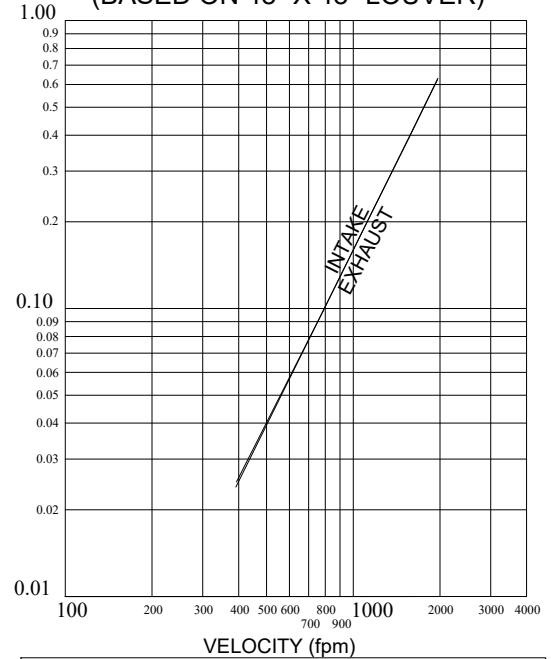
WATER PENETRATION

(BASED ON 48" X 48" LOUVER)



PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



WATER PENETRATION STATEMENT

AMCA DEFINES THE BEGINNING POINT OF WATER PENETRATION AS THE FREE AREA VELOCITY AT WHICH .01 OUNCES OR LESS OF WATER PER SQUARE FOOT OF LOUVER FREE AREA IS MEASURED TO PASS THROUGH A 48" X 48" LOUVER DURING A 15 MINUTE TEST PERIOD.



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 RATINGS SEAL APPLIES TO WATER PENETRATION AND AIR PERFORMANCE RATINGS FOR RECTANGULAR LOUVERS ONLY.

$$\frac{\text{CFM}}{\text{AIR FLOW VOLUME}} \div \frac{\text{FPM}}{\text{FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION}} = \frac{\text{SQFT}}{\text{REQUIRED LOUVER FREE AREA}}$$

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

6D375 FREE AREA CHART

LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.28	0.46	0.63	0.80	0.98	1.15	1.33	1.50	1.67	1.85	2.02	2.19	2.37	2.54	2.72	2.89	3.06	3.24	3.41
18	0.56	0.90	1.24	1.58	1.92	2.27	2.61	2.95	3.29	3.63	3.98	4.32	4.66	5.00	5.34	5.69	6.03	6.37	6.71
24	0.83	1.34	1.85	2.36	2.87	3.38	3.89	4.40	4.91	5.42	5.93	6.44	6.95	7.46	7.97	8.48	8.99	9.50	10.01
30	1.10	1.78	2.46	3.14	3.82	4.50	5.17	5.85	6.53	7.21	7.89	8.57	9.25	9.92	10.60	11.28	11.96	12.64	13.32
36	1.38	2.22	3.07	3.92	4.76	5.61	6.46	7.30	8.15	9.00	9.84	10.69	11.54	12.38	13.23	14.08	14.92	15.77	16.62
42	1.65	2.66	3.68	4.69	5.71	6.72	7.74	8.75	9.77	10.78	11.80	12.81	13.83	14.84	15.86	16.88	17.89	18.91	19.92
48	1.92	3.11	4.29	5.47	6.66	7.84	9.02	10.21	11.39	12.57	13.76	14.94	16.12	17.31	18.49	19.67	20.86	22.04	23.22
54	2.20	3.55	4.90	6.25	7.60	8.95	10.31	11.66	13.01	14.36	15.71	17.06	18.41	19.77	21.12	22.47	23.82	25.17	26.52
60	2.47	3.99	5.51	7.03	8.55	10.07	11.59	13.11	14.63	16.15	17.67	19.19	20.71	22.23	23.75	25.27	26.79	28.31	29.83
66	2.74	4.43	6.12	7.81	9.50	11.18	12.87	14.56	16.25	17.94	19.62	21.31	23.00	24.69	26.38	28.06	29.75	31.44	33.13
72	3.02	4.87	6.73	8.59	10.44	12.30	14.15	16.01	17.87	19.72	21.58	23.44	25.29	27.15	29.01	30.86	32.72	34.57	36.43
78	3.29	5.31	7.34	9.36	11.39	13.41	15.44	17.46	19.49	21.51	23.54	25.56	27.59	29.61	31.63	33.66	35.68	37.71	39.73
84	3.56	5.76	7.95	10.14	12.33	14.53	16.72	18.91	21.11	23.30	25.49	27.69	29.88	32.07	34.26	36.46	38.65	40.84	43.04
90	3.84	6.20	8.56	10.92	13.28	15.64	18.00	20.36	22.73	25.09	27.45	29.81	32.17	34.53	36.89	39.25	41.61	43.98	46.34
96	4.11	6.64	9.17	11.70	14.23	16.76	19.29	21.82	24.35	26.87	29.40	31.93	34.46	36.99	39.52	42.05	44.58	47.11	49.64
102	4.38	7.08	9.78	12.48	15.17	17.87	20.57	23.27	25.97	28.66	31.36	34.06	36.76	39.45	42.15	44.85	47.55	50.24	52.94
108	4.66	7.52	10.39	13.25	16.12	18.99	21.85	24.72	27.58	30.45	33.32	36.18	39.05	41.91	44.78	47.65	50.51	53.38	56.24
114	4.93	7.96	11.00	14.03	17.07	20.10	23.14	26.17	29.20	32.24	35.27	38.31	41.34	44.38	47.41	50.44	53.48	56.51	59.55
120	5.20	8.41	11.61	14.81	18.01	21.22	24.42	27.62	30.82	34.03	37.23	40.43	43.63	46.84	50.04	53.24	56.44	59.65	62.85

6D375-081 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 6" depth, 0.125 nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081 nominal wall thickness, blades positioned at 37.5 degree angle on 5.938" 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"H or 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 .040 sheet panels

Performance:

- Free Area = 57.3% (9.17 ft²)
- Beginning point of water penetration = 962 fpm

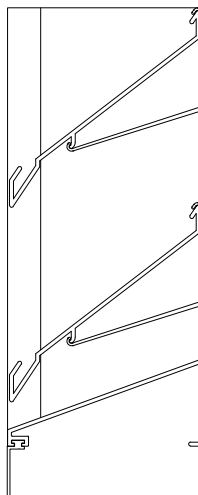


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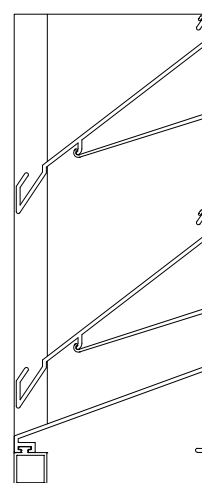


Available Finishes:

- ☐ Kynar (2 coat & 3 coat)
- ☐ Prime coat



FLANGE ADAPTER OPTION

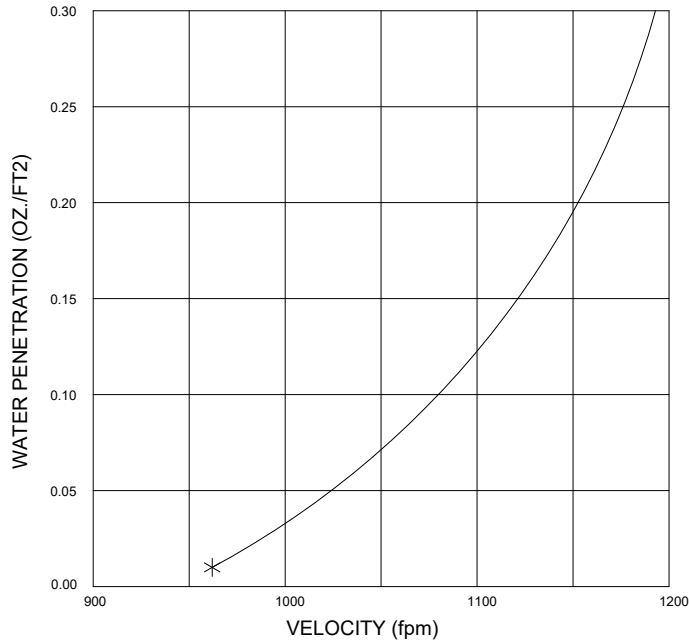


GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

6D375.081 LOUVER PERFORMANCE DATA

WATER PENETRATION

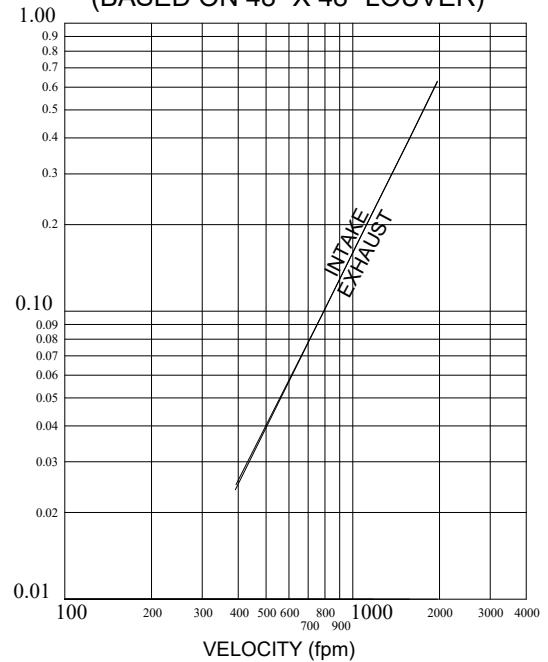
(BASED ON 48" X 48" LOUVER)



* - beginning point of water penetration is 962 fpm

PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



WATER PENETRATION STATEMENT

AMCA DEFINES THE BEGINNING POINT OF WATER PENETRATION AS THE FREE AREA VELOCITY AT WHICH .01 OUNCES OR LESS OF WATER PER SQUARE FOOT OF LOUVER FREE AREA IS MEASURED TO PASS THROUGH A 48" X 48" LOUVER DURING A 15 MINUTE TEST PERIOD.

$$\frac{\text{CFM}}{\text{FPM}} = \text{SQFT}$$

AIR FLOW
VOLUME

FREE AREA VELOCITY @
BEGINNING POINT OF
WATER PENETRATION

REQUIRED LOUVER
FREE AREA

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW,
BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP
CHART BASED ON REQUIRED LOUVER FREE AREA



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 RATINGS SEAL APPLIES TO WATER PENETRATION AND AIR PERFORMANCE RATINGS FOR RECTANGULAR LOUVERS ONLY.

6D375.081 FREE AREA CHART

LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)

	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.28	0.46	0.63	0.80	0.98	1.15	1.33	1.50	1.67	1.85	2.02	2.19	2.37	2.54	2.72	2.89	3.06	3.24	3.41
18	0.56	0.90	1.24	1.58	1.92	2.27	2.61	2.95	3.29	3.63	3.98	4.32	4.66	5.00	5.34	5.69	6.03	6.37	6.71
24	0.83	1.34	1.85	2.36	2.87	3.38	3.89	4.40	4.91	5.42	5.93	6.44	6.95	7.46	7.97	8.48	8.99	9.50	10.01
30	1.10	1.78	2.46	3.14	3.82	4.50	5.17	5.85	6.53	7.21	7.89	8.57	9.25	9.92	10.60	11.28	11.96	12.64	13.32
36	1.38	2.22	3.07	3.92	4.76	5.61	6.46	7.30	8.15	9.00	9.84	10.69	11.54	12.38	13.23	14.08	14.92	15.77	16.62
42	1.65	2.66	3.68	4.69	5.71	6.72	7.74	8.75	9.77	10.78	11.80	12.81	13.83	14.84	15.86	16.88	17.89	18.91	19.92
48	1.92	3.11	4.29	5.47	6.66	7.84	9.17	10.21	11.39	12.57	13.76	14.94	16.12	17.31	18.49	19.67	20.86	22.04	23.22
54	2.20	3.55	4.90	6.25	7.60	8.95	10.31	11.66	13.01	14.36	15.71	17.06	18.41	19.77	21.12	22.47	23.82	25.17	26.52
60	2.47	3.99	5.51	7.03	8.55	10.07	11.59	13.11	14.63	16.15	17.67	19.19	20.71	22.23	23.75	25.27	26.79	28.31	29.83
66	2.74	4.43	6.12	7.81	9.50	11.18	12.87	14.56	16.25	17.94	19.62	21.31	23.00	24.69	26.38	28.06	29.75	31.44	33.13
72	3.02	4.87	6.73	8.59	10.44	12.30	14.15	16.01	17.87	19.72	21.58	23.44	25.29	27.15	29.01	30.86	32.72	34.57	36.43
78	3.29	5.31	7.34	9.36	11.39	13.41	15.44	17.46	19.49	21.51	23.54	25.56	27.59	29.61	31.63	33.66	35.68	37.71	39.73
84	3.56	5.76	7.95	10.14	12.33	14.53	16.72	18.91	21.11	23.30	25.49	27.69	29.88	32.07	34.26	36.46	38.65	40.84	43.04
90	3.84	6.20	8.56	10.92	13.28	15.64	18.00	20.36	22.73	25.09	27.45	29.81	32.17	34.53	36.89	39.25	41.61	43.98	46.34
96	4.11	6.64	9.17	11.70	14.23	16.76	19.29	21.82	24.35	26.87	29.40	31.93	34.46	36.99	39.52	42.05	44.58	47.11	49.64
102	4.38	7.08	9.78	12.48	15.17	17.87	20.57	23.27	25.97	28.66	31.36	34.06	36.76	39.45	42.15	44.85	47.55	50.24	52.94
108	4.66	7.52	10.39	13.25	16.12	18.99	21.85	24.72	27.58	30.45	33.32	36.18	39.05	41.91	44.78	47.65	50.51	53.38	56.24
114	4.93	7.96	11.00	14.03	17.07	20.10	23.14	26.17	29.20	32.24	35.27	38.31	41.34	44.38	47.41	50.44	53.48	56.51	59.55
120	5.20	8.41	11.61	14.81	18.01	21.22	24.42	27.62	30.82	34.03	37.23	40.43	43.63	46.84	50.04	53.24	56.44	59.65	62.85



6Z375 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 4" depth, 0.125" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.125" nominal wall thickness, blades positioned at 37.5 degree angle on 5.938" 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"H or 84"W X 120H. 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 .040 sheet panels

Performance:

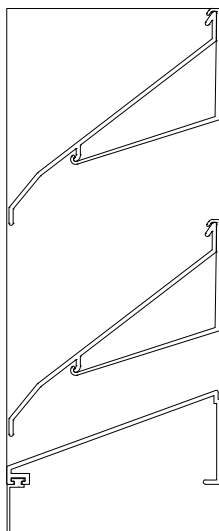
- Free Area = 57.3% (9.17ft²)
- Beginning point of water penetration = 820 fpm

Available Finishes:

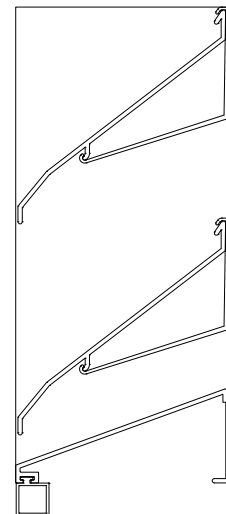
- ☐ Kynar (2 coat & 3 coat)
- ☐ Prime coat



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FLANGE ADAPTER OPTION

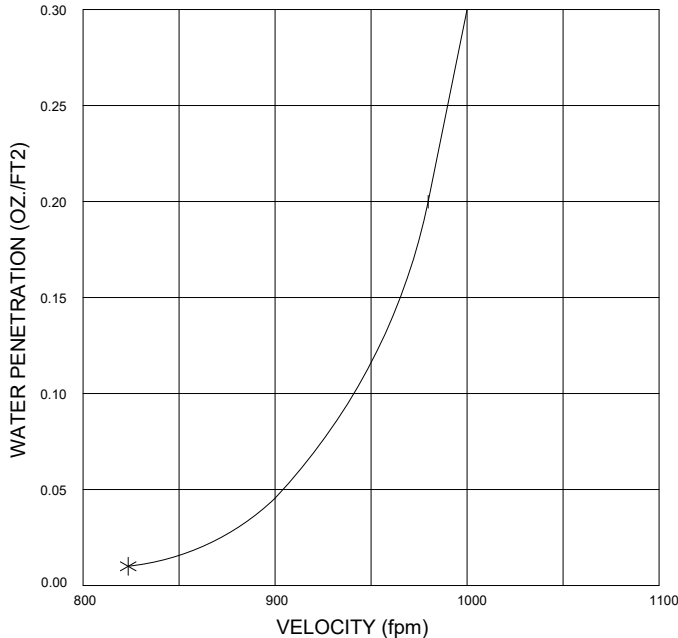


GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

6Z375 LOUVER PERFORMANCE DATA

WATER PENETRATION

(BASED ON 48" X 48" LOUVER)



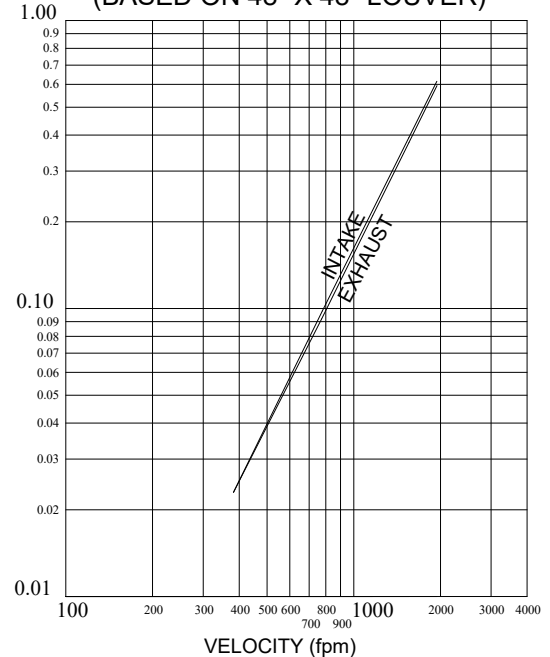
* - beginning point of water penetration is 820.2 fpm

WATER PENETRATION STATEMENT

AMCA DEFINES THE BEGINNING POINT OF WATER PENETRATION AS THE FREE AREA VELOCITY AT WHICH .01 OUNCES OR LESS OF WATER PER SQUARE FOOT OF LOUVER FREE AREA IS MEASURED TO PASS THROUGH A 48" X 48" LOUVER DURING A 15 MINUTE TEST PERIOD.

PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



$$\frac{\text{CFM}}{\text{FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION}} = \frac{\text{SQFT}}{\text{REQUIRED LOUVER FREE AREA}}$$

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA



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6Z375 FREE AREA CHART LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.28	0.46	0.63	0.80	0.98	1.15	1.33	1.50	1.67	1.85	2.02	2.19	2.37	2.54	2.72	2.89	3.06	3.24	3.41
18	0.56	0.90	1.24	1.58	1.92	2.27	2.61	2.95	3.29	3.63	3.98	4.32	4.66	5.00	5.34	5.69	6.03	6.37	6.71
24	0.83	1.34	1.85	2.36	2.87	3.38	3.89	4.40	4.91	5.42	5.93	6.44	6.95	7.46	7.97	8.48	8.99	9.50	10.01
30	1.10	1.78	2.46	3.14	3.82	4.50	5.17	5.85	6.53	7.21	7.89	8.57	9.25	9.92	10.60	11.28	11.96	12.64	13.32
36	1.38	2.22	3.07	3.92	4.76	5.61	6.46	7.30	8.15	9.00	9.84	10.69	11.54	12.38	13.23	14.08	14.92	15.77	16.62
42	1.65	2.66	3.68	4.69	5.71	6.72	7.74	8.75	9.77	10.78	11.80	12.81	13.83	14.84	15.86	16.88	17.89	18.91	19.92
48	1.92	3.11	4.29	5.47	6.66	7.84	9.17	10.21	11.39	12.57	13.76	14.94	16.12	17.31	18.49	19.67	20.86	22.04	23.22
54	2.20	3.55	4.90	6.25	7.60	8.95	10.31	11.66	13.01	14.36	15.71	17.06	18.41	19.77	21.12	22.47	23.82	25.17	26.52
60	2.47	3.99	5.51	7.03	8.55	10.07	11.59	13.11	14.63	16.15	17.67	19.19	20.71	22.23	23.75	25.27	26.79	28.31	29.83
66	2.74	4.43	6.12	7.81	9.50	11.18	12.87	14.56	16.25	17.94	19.62	21.31	23.00	24.69	26.38	28.06	29.75	31.44	33.13
72	3.02	4.87	6.73	8.59	10.44	12.30	14.15	16.01	17.87	19.72	21.58	23.44	25.29	27.15	29.01	30.86	32.72	34.57	36.43
78	3.29	5.31	7.34	9.36	11.39	13.41	15.44	17.46	19.49	21.51	23.54	25.56	27.59	29.61	31.63	33.66	35.68	37.71	39.73
84	3.56	5.76	7.95	10.14	12.33	14.53	16.72	18.91	21.11	23.30	25.49	27.69	29.88	32.07	34.26	36.46	38.65	40.84	43.04
90	3.84	6.20	8.56	10.92	13.28	15.64	18.00	20.36	22.73	25.09	27.45	29.81	32.17	34.53	36.89	39.25	41.61	43.98	46.34
96	4.11	6.64	9.17	11.70	14.23	16.76	19.29	21.82	24.35	26.87	29.40	31.93	34.46	36.99	39.52	42.05	44.58	47.11	49.64
102	4.38	7.08	9.78	12.48	15.17	17.87	20.57	23.27	25.97	28.66	31.36	34.06	36.76	39.45	42.15	44.85	47.55	50.24	52.94
108	4.66	7.52	10.39	13.25	16.12	18.99	21.85	24.72	27.58	30.45	33.32	36.18	39.05	41.91	44.78	47.65	50.51	53.38	56.24
114	4.93	7.96	11.00	14.03	17.07	20.10	23.14	26.17	29.20	32.24	35.27	38.31	41.34	44.38	47.41	50.44	53.48	56.51	59.55
120	5.20	8.41	11.61	14.81	18.01	21.22	24.42	27.62	30.82	34.03	37.23	40.43	43.63	46.84	50.04	53.24	56.44	59.65	62.85

APD6 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 6.20" depth, .125" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081" nominal wall thickness, blades positioned at 37 degree angle on 4.64" 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"H or 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.

Performance:

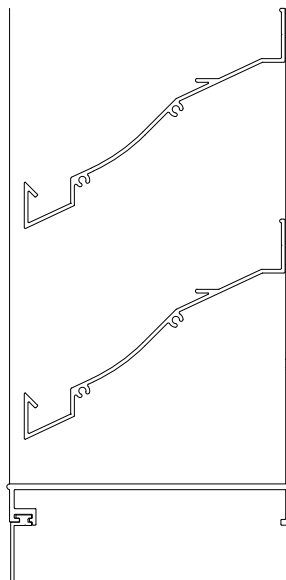
- 54.44% Free area
- Beginning point of water penetration Lies above 1250 fpm

Available Finishes:

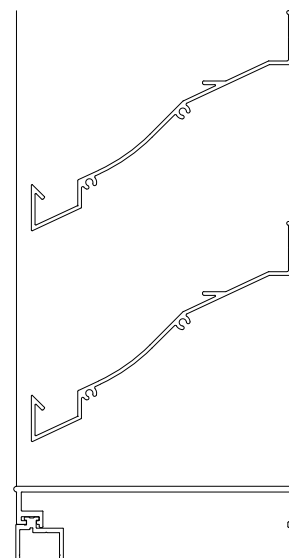
- ☐ Kynar (2 coat & 3 coat)
- ☐ Prime coat
- ☐ Clear and color anodize



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.



FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

APD6 LOUVER PERFORMANCE DATA

WATER PENETRATION

(BASED ON 48" X 48" LOUVER)

AMCA DEFINES THE BEGINNING POINT OF WATER PENETRATION AS THE FREE AREA VELOCITY AT WHICH .01 OUNCES OR LESS OF WATER PER SQUARE FOOT OF LOUVER FREE AREA IS MEASURED TO PASS THROUGH A 48" X 48" LOUVER DURING A 15 MINUTE PERIOD. THE AMCA WATER PENETRATION TEST PROVIDES TEST DATA FOR THE COMPARISON OF LOUVER DESIGNS AS TO EFFICIENCY IN RESISTING THE PENETRATION OF RAINFALL UNDER SPECIFIC LABORATORY TEST CONDITIONS

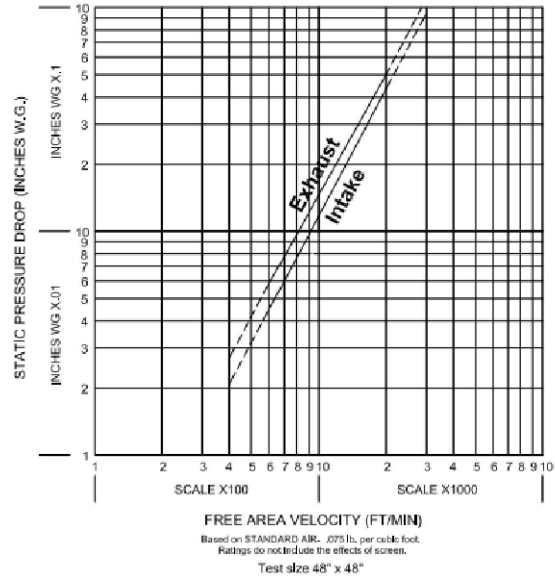
* Beginning point of WATER PENETRATION lies above
1250 fpm



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PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



CFM / FPM = SQFT

AIR FLOW VOLUME

FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION

REQUIRED LOUVER FREE AREA

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

Louver Height Inches	Width - Inches																			Louver Height Inches
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	
12	0.24	0.39	0.54	0.69	0.83	0.98	1.13	1.28	1.43	1.58	1.73	1.87	2.02	2.17	2.32	2.47	2.62	2.76	2.91	12
18	0.47	0.76	1.05	1.34	1.63	1.92	2.21	2.51	2.80	3.09	3.38	3.67	3.96	4.25	4.54	4.83	5.12	5.41	5.70	18
24	0.70	1.14	1.57	2.00	2.43	2.86	3.30	3.73	4.16	4.59	5.03	5.46	5.89	6.32	6.76	7.19	7.62	8.05	8.49	24
30	0.93	1.51	2.08	2.66	3.23	3.81	4.38	4.95	5.53	6.10	6.68	7.25	7.83	8.40	8.98	9.55	10.12	10.70	11.27	30
36	1.16	1.88	2.60	3.31	4.03	4.75	5.46	6.18	6.90	7.61	8.33	9.05	9.76	10.48	11.19	11.91	12.63	13.34	14.06	36
42	1.63	2.63	3.63	4.63	5.63	6.63	7.63	8.63	9.63	10.63	11.63	12.63	13.63	14.63	15.63	16.63	17.63	18.63	19.63	42
48	1.86	3.00	4.14	5.28	6.43	7.57	8.71	9.85	11.00	12.14	13.28	14.42	15.57	16.71	17.85	18.99	20.14	21.28	22.42	48
54	2.09	3.37	4.66	5.94	7.22	8.51	9.79	11.08	12.36	13.65	14.93	16.22	17.50	18.78	20.07	21.35	22.64	23.92	25.21	54
60	2.32	3.74	5.17	6.60	8.02	9.45	10.88	12.30	13.73	15.16	16.58	18.01	19.44	20.86	22.29	23.71	25.14	26.57	27.99	60
66	2.55	4.12	5.69	7.25	8.82	10.39	11.96	13.53	15.10	16.66	18.23	19.80	21.37	22.94	24.51	26.08	27.64	29.21	30.78	66
72	2.78	4.49	6.20	7.91	9.62	11.33	13.04	14.75	16.46	18.17	19.88	21.59	23.30	25.02	26.73	28.44	30.15	31.86	33.57	72
78	3.01	4.86	6.72	8.57	10.42	12.27	14.12	15.98	17.83	19.68	21.53	23.39	25.24	27.09	28.94	30.80	32.65	34.50	36.35	78
84	3.47	5.61	7.74	9.88	12.02	14.15	16.29	18.43	20.56	22.70	24.84	26.97	29.11	31.25	33.38	35.52	37.65	39.79	41.93	84
90	3.70	5.98	8.26	10.54	12.82	15.09	17.37	19.65	21.93	24.21	26.49	28.77	31.04	33.32	35.60	37.88	40.16	42.44	44.71	90
96	3.93	6.35	8.77	11.19	13.61	16.04	18.46	20.88	23.30	25.72	28.14	30.56	32.98	35.40	37.82	40.24	42.66	45.08	47.50	96
102	4.16	6.73	9.29	11.85	14.41	16.98	19.54	22.10	24.66	27.23	29.79	32.35	34.91	37.48	40.04	42.60	45.16	47.73	50.29	102
108	4.39	7.10	9.80	12.51	15.21	17.92	20.62	23.33	26.03	28.73	31.44	34.14	36.85	39.55	42.26	44.96	47.67	50.37	53.07	108
114	4.63	7.47	10.32	13.16	16.01	18.86	21.70	24.55	27.40	30.24	33.09	35.94	38.78	41.63	44.48	47.32	50.17	53.01	55.86	114
120	4.86	7.84	10.83	13.82	16.81	19.80	22.79	25.78	28.76	31.75	34.74	37.73	40.72	43.71	46.69	49.68	52.67	55.66	58.65	120



APHFA-6 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 6.20" depth, .125" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.081" nominal wall thickness, blades positioned at 37 degree angle on 4.64" 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"H or 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.

Performance:

-59.69% Free area

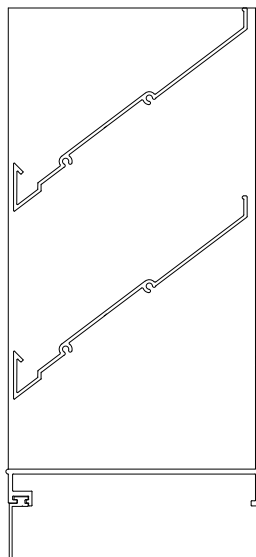
-Beginning point of water penetration Lies at 915 fpm

Available Finishes:

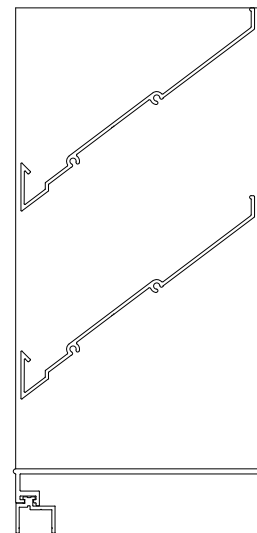
- ☐ Kynar (2 coat & 3 coat)
- ☐ Prime coat
- ☐ Clear and color anodize



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FLANGE ADAPTER OPTION



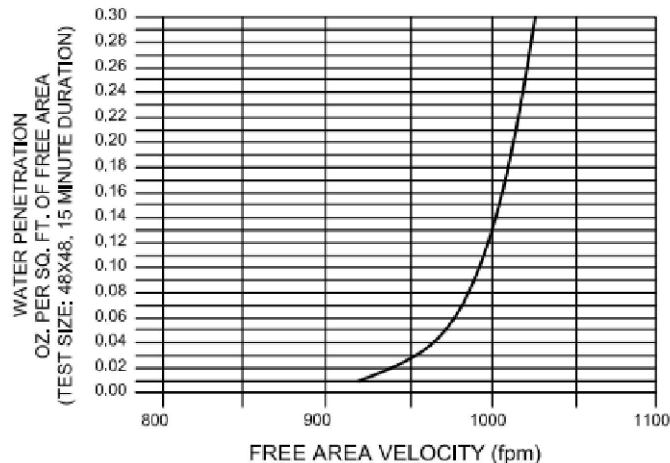
GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

APHFA-6 LOUVER PERFORMANCE DATA

WATER PENETRATION

(BASED ON 48" X 48" LOUVER)

AMCA defines the beginning point of water penetration as the free area velocity at which .01 ounces or less of water per square foot of louver free area is measured to pass through a 48" x 48" louver during a 15 minute period. The AMCA water penetration test provides test data for the comparison of louver designs as to efficiency in resisting the penetration of rainfall under specific laboratory test conditions



* Beginning point of WATER PENETRATION lies above

915 fpm

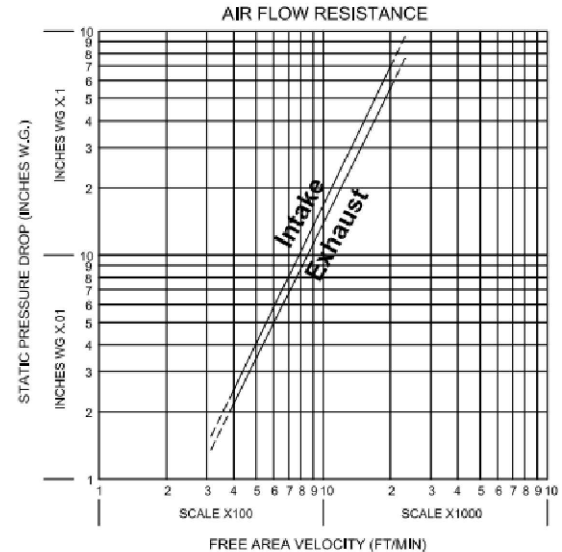


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PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



CFM /	FPM =	SQFT
AIR FLOW VOLUME	FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION	REQUIRED LOUVER FREE AREA

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

Height - Inches	Louver Height Inches	Width - Inches																		Louver Height Inches	
	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120		
	12	0.33	0.54	0.75	0.95	1.16	1.36	1.57	1.77	1.98	2.19	2.39	2.60	2.80	3.01	3.21	3.42	3.63	3.83	4.04	12
	18	0.56	0.91	1.26	1.61	1.96	2.30	2.65	3.00	3.35	3.69	4.04	4.39	4.74	5.08	5.43	5.78	6.13	6.47	6.82	18
	24	0.86	1.39	1.93	2.46	2.99	3.52	4.05	4.58	5.11	5.64	6.18	6.71	7.24	7.77	8.30	8.83	9.36	9.89	10.43	24
	30	1.18	1.90	2.62	3.35	4.07	4.80	5.52	6.24	6.97	7.69	8.42	9.14	9.86	10.59	11.31	12.04	12.76	13.48	14.21	30
	36	1.41	2.27	3.14	4.00	4.87	5.74	6.60	7.47	8.33	9.20	10.07	10.93	11.80	12.66	13.53	14.39	15.26	16.13	16.99	36
	42	1.71	2.75	3.80	4.85	5.90	6.95	8.00	9.05	10.10	11.15	12.20	13.25	14.30	15.35	16.40	17.45	18.50	19.55	20.60	42
	48	2.03	3.29	4.54	5.79	7.04	8.30	9.55	10.80	12.05	13.30	14.56	15.81	17.06	18.31	19.56	20.82	22.07	23.32	24.57	48
	54	2.27	3.66	5.05	6.45	7.84	9.24	10.63	12.02	13.42	14.81	16.21	17.60	18.99	20.39	21.78	23.18	24.57	25.96	27.36	54
	60	2.56	4.14	5.72	7.30	8.87	10.45	12.03	13.61	15.18	16.76	18.34	19.92	21.49	23.07	24.65	26.23	27.80	29.38	30.96	60
	66	2.88	4.65	6.42	8.19	9.96	11.73	13.50	15.27	17.04	18.81	20.58	22.35	24.12	25.89	27.66	29.43	31.20	32.97	34.74	66
	72	3.11	5.02	6.93	8.84	10.76	12.67	14.58	16.49	18.41	20.32	22.23	24.14	26.05	27.97	29.88	31.79	33.70	35.61	37.53	72
	78	3.41	5.50	7.60	9.69	11.79	13.88	15.98	18.08	20.17	22.27	24.36	26.46	28.56	30.65	32.75	34.84	36.94	39.03	41.13	78
	84	3.72	6.01	8.30	10.58	12.87	15.16	17.45	19.74	22.03	24.32	26.60	28.89	31.18	33.47	35.76	38.05	40.33	42.62	44.91	84
	90	3.95	6.38	8.81	11.24	13.67	16.10	18.53	20.96	23.39	25.82	28.25	30.68	33.11							
	96	4.25	6.86	9.48	12.09	14.70	17.32	19.93	22.55	25.16	27.77	30.39	33.00	35.62							
	102	4.56	7.37	10.17	12.98	15.79	18.59	21.40	24.21	27.01	29.82	32.63	35.43	38.24							
	108	4.79	7.74	10.69	13.64	16.59	19.53	22.48	25.43	28.38	31.33	34.28	37.23	40.18							
	114	5.09	8.22	11.35	14.49	17.62	20.75	23.88	27.02	30.15	33.28	36.41	39.54	42.68							
120	5.40	8.73	12.05	15.38	18.70	22.03	25.35	28.68	32.00	35.33	38.65	41.98	45.30								

7WDRL STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 7" depth, 0.081 nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.068 nominal wall thickness, blades positioned on 3.75" 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"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

Options:

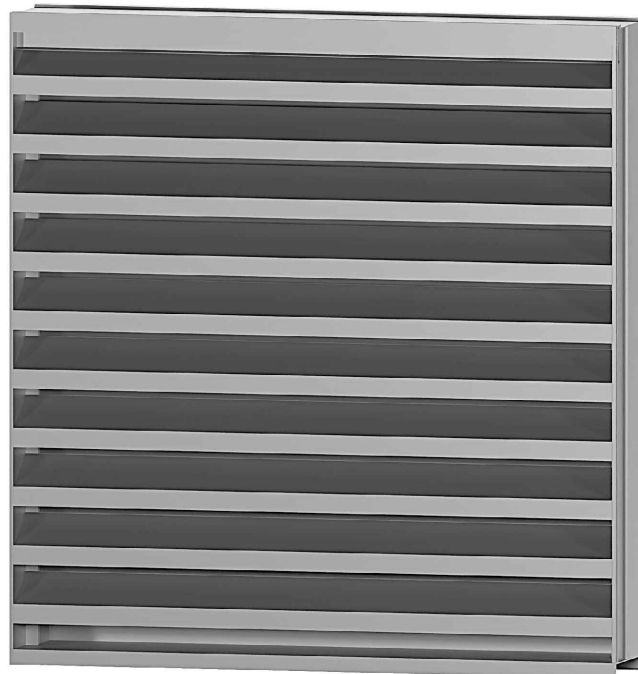
- ☐ Extended sill
- ☐ Insect screen and bird screen (various options of screen types)
- ☐ Filter racks
- ☐ Security bars
- ☐ Blank-off, alum., non-insulated, sheet panels with various thickness options
- ☐ Blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet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

Performance:

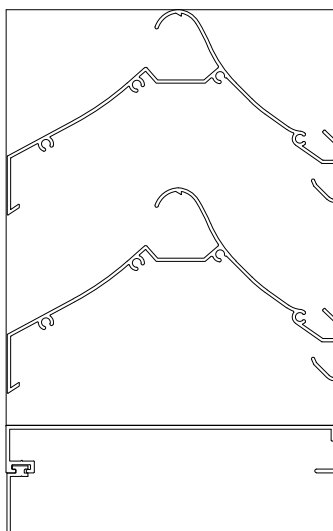
- 47.31% Free area
- Wind Driven Rain "A" Rating

Available Finishes:

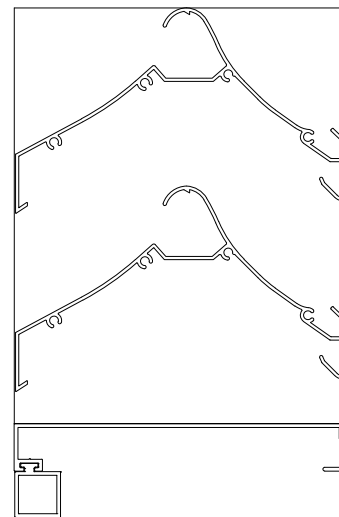
- ☐ Kynar (2 coat & 3 coat)
- ☐ Prime coat
- ☐ Clear and color anodize



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FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

7WDRL LOUVER PERFORMANCE DATA

WIND-DRIVEN RAIN PERFORMANCE

(BASED ON 39.375" X 39.375" LOUVER)

Wind Velocity (mph)	Rain Fall Rate (in/hr)	Core Velocity (fpm)	Air Flow (cfm)	Free Area Velocity (fpm)	Effectiveness Ratio	Class	Discharge Loss Class
29	3	191	2061	387	99	A	3
29	3	383	4120	776	95.6	B	3

Wind-Driven Rain Penetration Class		Discharge Loss Coefficient Class	
Class	Effectiveness	Class	Discharge Loss Coefficient
A	1 to 0.99	1	0.4 and Above
B	0.989 to 0.95	2	0.3 to 0.399
C	0.949 to 0.80	3	0.2 to 0.299
D	Below 0.80	4	0.199 and Below

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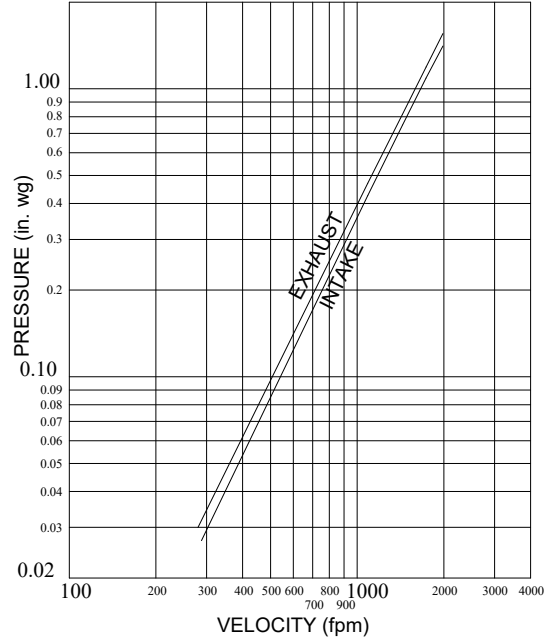
7WDRL FREE AREA CHART
LOUVER WIDTH (IN)

LOUVER HEIGHT (IN)

	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
12	0.18	0.29	0.40	0.52	0.63	0.74	0.85	0.97	1.08	1.19	1.30	1.42	1.53	1.64	1.76	1.87	1.98	2.09	2.21
18	0.42	0.68	0.95	1.21	1.48	1.74	2.00	2.27	2.53	2.80	3.06	3.33	3.59	3.86	4.12	4.38	4.65	4.91	5.18
24	0.61	1.00	1.39	1.78	2.17	2.55	2.94	3.33	3.72	4.11	4.49	4.88	5.27	5.66	6.05	6.43	6.82	7.21	7.60
30	0.90	1.47	2.04	2.61	3.19	3.76	4.33	4.90	5.47	6.04	6.61	7.18	7.76	8.33	8.90	9.47	10.04	10.61	11.18
36	1.09	1.79	2.48	3.17	3.86	4.56	5.25	5.94	6.63	7.33	8.02	8.71	9.40	10.10	10.79	11.48	12.17	12.87	13.56
42	1.34	2.18	3.03	3.88	4.73	5.57	6.42	7.27	8.12	8.96	9.81	10.66	11.50	12.35	13.20	14.05	14.89	15.74	16.59
48	1.58	2.58	3.57	4.57	5.57	6.57	7.57	8.57	9.57	10.57	11.57	12.57	13.57	14.57	15.56	16.56	17.56	18.56	19.56
54	1.77	2.89	4.02	5.14	6.26	7.39	8.51	9.63	10.75	11.88	13.00	14.12	15.25	16.37	17.49	18.62	19.74	20.86	21.98
60	2.06	3.37	4.67	5.98	7.28	8.59	9.90	11.20	12.51	13.81	15.12	16.42	17.73	19.04	20.34	21.65	22.95	24.26	25.57
66	2.25	3.68	5.11	6.53	7.96	9.39	10.81	12.24	13.67	15.10	16.52	17.95	19.38	20.80	22.23	23.66	25.08	26.51	27.94
72	2.50	4.08	5.66	7.24	8.82	10.41	11.99	13.57	15.15	16.73	18.32	19.90	21.48	23.06	24.65	26.23	27.81	29.39	30.97
78	2.74	4.47	6.20	7.94	9.67	11.40	13.14	14.87	16.61	18.34	20.07	21.81	23.54	25.28	27.01	28.74	30.48	32.21	33.94
84	3.08	5.02	6.97	8.92	10.87	12.82	14.77	16.72	18.67	20.62	22.57	24.52	26.47	28.42	30.37	32.32	34.26	36.21	38.16
90	3.22	5.26	7.30	9.34	11.38	13.42	15.46	17.50	19.54	21.58	23.62	25.66	27.71	29.75	31.79	33.83	35.87	37.91	39.95
96	3.41	5.57	7.73	9.90	12.06	14.22	16.38	18.54	20.71	22.87	25.03	27.19	29.35	31.52	33.68	35.84	38.00	40.16	42.33
102	3.65	5.97	8.29	10.60	12.92	15.24	17.55	19.87	22.19	24.50	26.82	29.14	31.45	33.77	36.09	38.40	40.72	43.04	45.35
108	3.89	6.36	8.83	11.30	13.77	16.24	18.71	21.17	23.64	26.11	28.58	31.05	33.52	35.98	38.45	40.92	43.39	45.86	48.33
114	4.09	6.68	9.27	11.87	14.46	17.05	19.64	22.23	24.83	27.42	30.01	32.60	35.20	37.79	40.38	42.97	45.56	48.16	50.75
120	4.38	7.15	9.93	12.70	15.48	18.25	21.03	23.80	26.58	29.35	32.13	34.91	37.68	40.46	43.23	46.01	48.78	51.56	54.33

PRESSURE DROP

(BASED ON 48" X 48" LOUVER)



$\frac{\text{CFM}}{\text{AIR FLOW VOLUME}} \div \frac{\text{FPM}}{\text{FREE AREA VELOCITY @ BEGINNING POINT OF WATER PENETRATION}} = \frac{\text{SQFT}}{\text{REQUIRED LOUVER FREE AREA}}$

SELECT LOUVER SIZE FROM FREE AREA CHART BELOW, BASED ON REQUIRED LOUVER FREE AREA ABOVE

DETERMINE PRESSURE DROP FROM PRESSURE DROP CHART BASED ON REQUIRED LOUVER FREE AREA

APXS7 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 7" depth, 0.080" nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.080" nominal wall thickness, blades placed on 2.188" 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"H or 84"W x 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

OPTIONS:

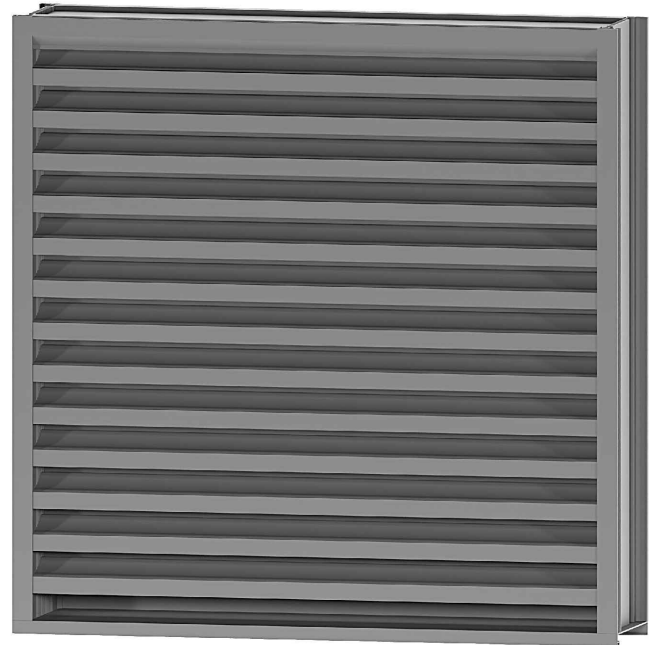
- ☐ Extended sill
- ☐ Insect screen and bird screen (various options of screen types)
- ☐ Filter racks
- ☐ Security bars
- ☐ Blank-off, alum., non-insulated, sheet panels with various thickness options
- ☐ blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet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

PERFORMANCE:

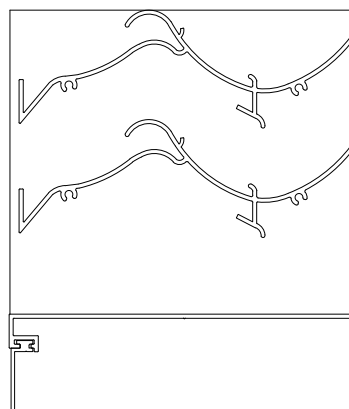
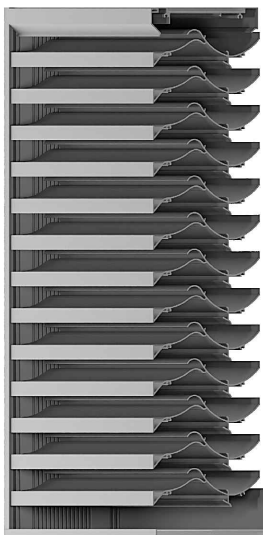
- 44.56% free area
- wind driven rain Class A
- Beginning point of water penetration lies above 1250 fpm

AVAILABLE FINISHES:

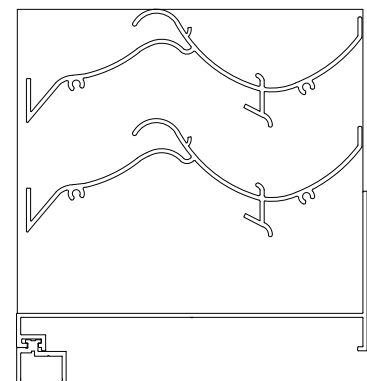
- ☐ Kynar (2 coat & 3 coat)
- ☐ Prime coat
- ☐ Clear and color anodize



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, air performance, and wind driven rain ratings for rectangular louvers only.



FLANGE ADAPTER OPTION



GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

VTG-30-198 STATIONARY LOUVER

STANDARD CONSTRUCTION:

Frame: 6063-T6 extruded aluminum, 1.315" depth, 0.063 nominal wall thickness.

Blade: 6063-T6 extruded aluminum, 0.063 nominal wall thickness, 30 degree blades positioned on .775" centers.

Finish: Mill

Minimum size: 12"W X 12"H

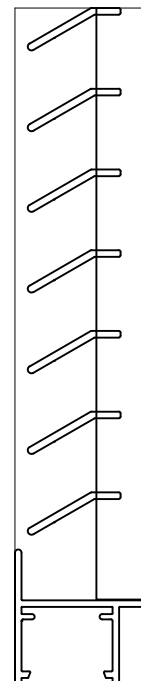
Maximum Single Section: 120"W X 84"H or 84"W X 120"H. Louvers exceeding max single section size will be built in multiple sections and require field assembly

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.

Available Finishes:

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



GLAZING ADAPTER OPTION
(OTHER GLAZING OPTIONS AVAILABLE)

5 INCH VERTICAL EQUIPMENT SCREEN

STANDARD CONSTRUCTION:

FRAME: 6061-T6 2" x 3" x 1/4" Structural Angle

BLADE: 6063-T6 extruded aluminum, 0.081" nominal wall thickness, blades positioned on 4.500" centers.

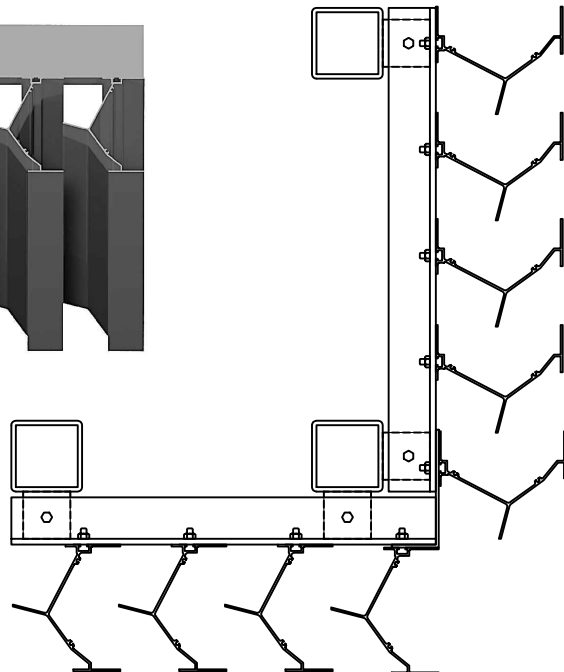
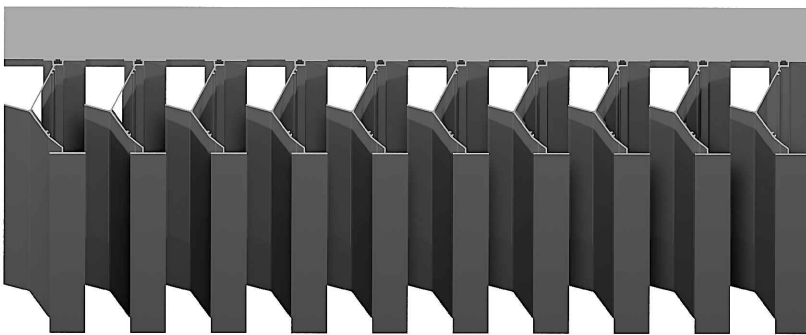
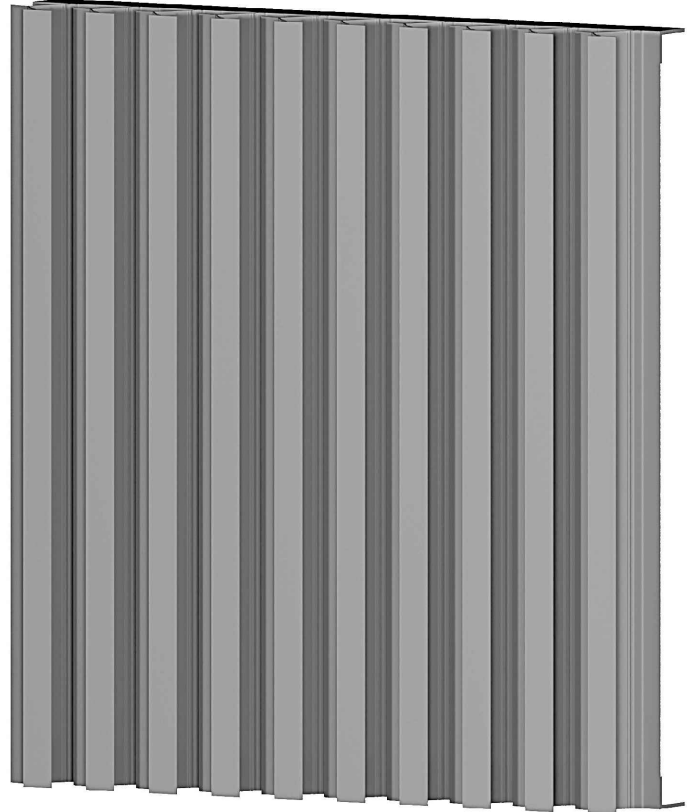
FINISH: Mill

MINIMUM SIZE: 12"W X 12"H

MAXIMUM SINGLE SECTION: 120"W x 84"H or 84"W x 120"H. Equipment Screens exceeding max single section size will be built in multiple sections and require field assembly

AVAILABLE FINISH

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



Mitered Corner's Available

2SS30 STATIONARY LOUVER

STANDARD CONSTRUCTION:

FRAME: Formed 16ga Stainless Steel, 2" depth, 0.063" nominal wall thickness.

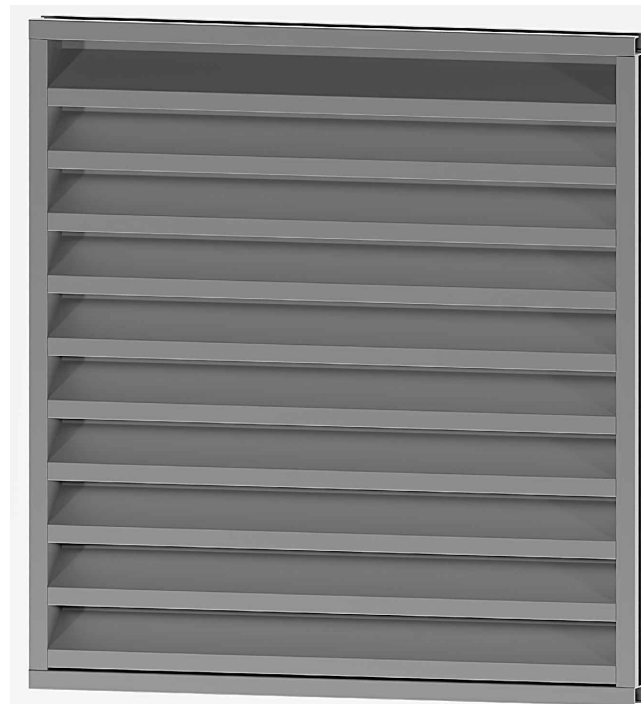
BLADE: Formed 16ga Stainless Steel, 0.063" nominal wall thickness, blades positioned at 30 degree angle on 2.375" centers.

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"H or 84"W x 120"H.
Louvers exceeding max single section size will be built in multiple sections and require field assembly



OPTIONS:

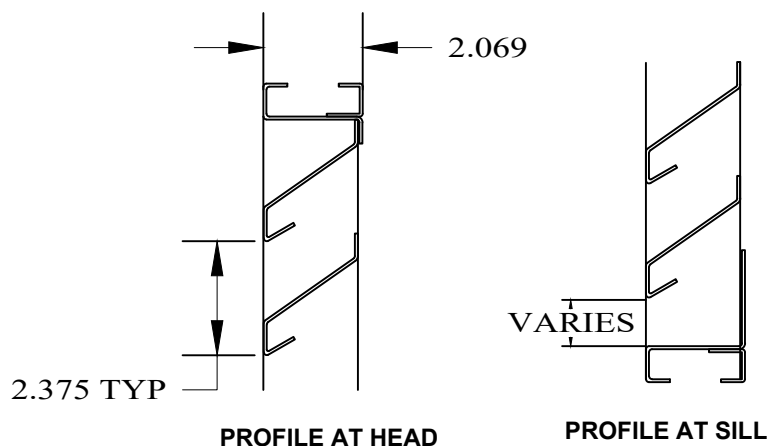
- ☐ Extended sill
- ☐ Insect screen and bird screen (Various options of screen types)
- ☐ Filter racks
- ☐ Security bars
- ☐ Blank-off, alum., non-insulated, sheet panels with various thickness options
- ☐ Blank-off, alum., insulated with various r value & thickness options, encapsulated within sheet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

PERFORMANCE:

-49.28% Free area (4' x 4')

AVAILABLE FINISH

O MILL STAINLESS



4CHES EQUIPMENT SCREEN

STANDARD CONSTRUCTION:

FRAME: 6061-T6 2" x 3" x 1/4" Structural Angle

BLADE: 6063-T6 extruded aluminum, 0.081" nominal wall thickness, blades positioned at 4" centers

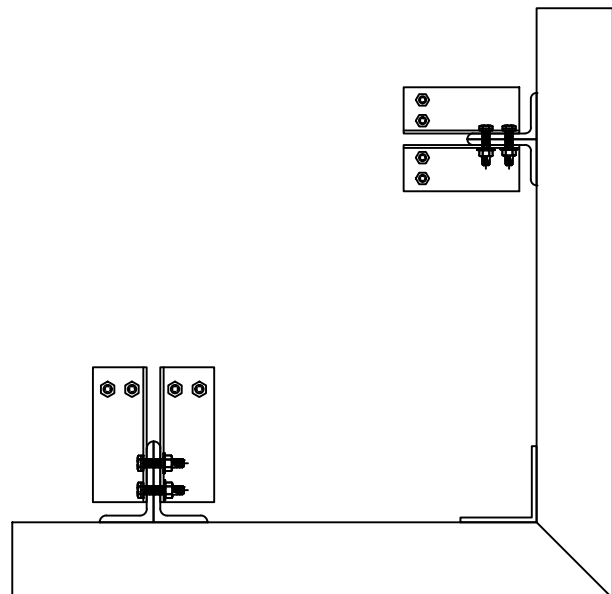
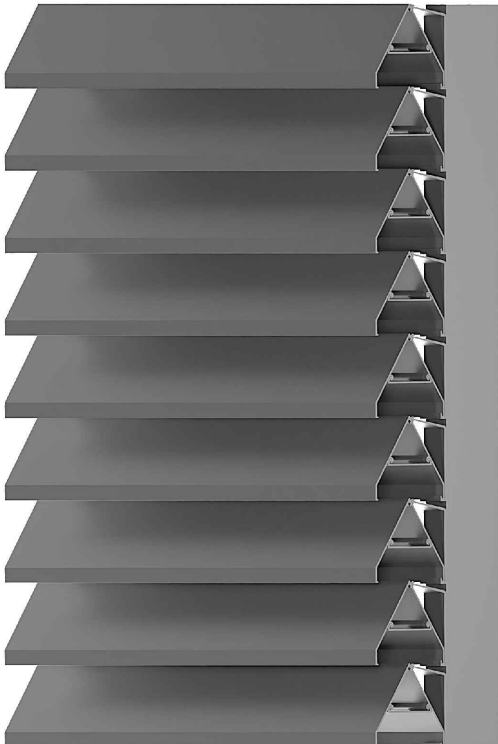
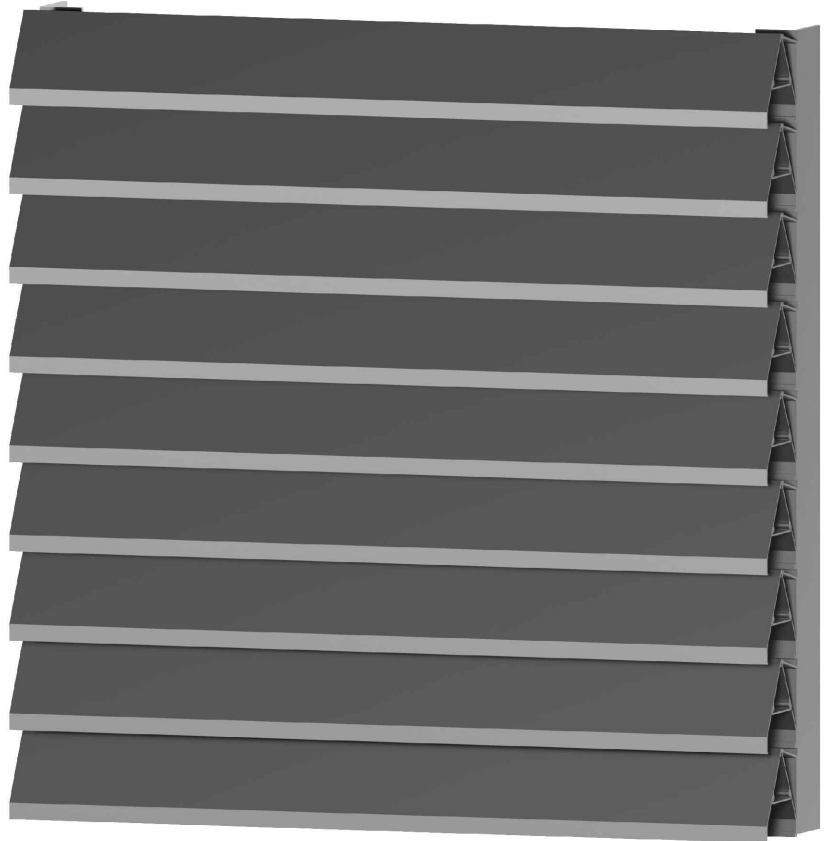
FINISH: Mill

MINIMUM SIZE: 12"W X 12"H

MAXIMUM SINGLE SECTION: 120"W x 84"H or 84"W x 120"H. Equipment Screens exceeding max single section size will be built in multiple sections and require field assembly

AVAILABLE FINISH

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



Mitered Corner's Available