

Drainable / Sightproof Louver in 5" thick frame design Model DEM-05

Design Features – Drainable blade vision proof design.

STANDARD CONSTRUCTION

ALL MATERIAL – EXTRUDED ALUMINUM 6063-T5 (KB-45)

FRAME

5" deep, is .081 extruded aluminum in style #3.

BLADES

.081" extruded aluminum, approx. spacing is 2" @ 30°

MAXIMUM SIZE

Unlimited, with mullions, structural bracing supplied by others

MAXIMUM FACTORY ASSEMBLY SIZE

120" w x 96" H" or 96" w x 120" H

(allows for best handling)

(Type of finish may limit maximum single section)

MULLION

Invisible

MINIMUM SIZE

12" w x 12" H

UNDERSIZED

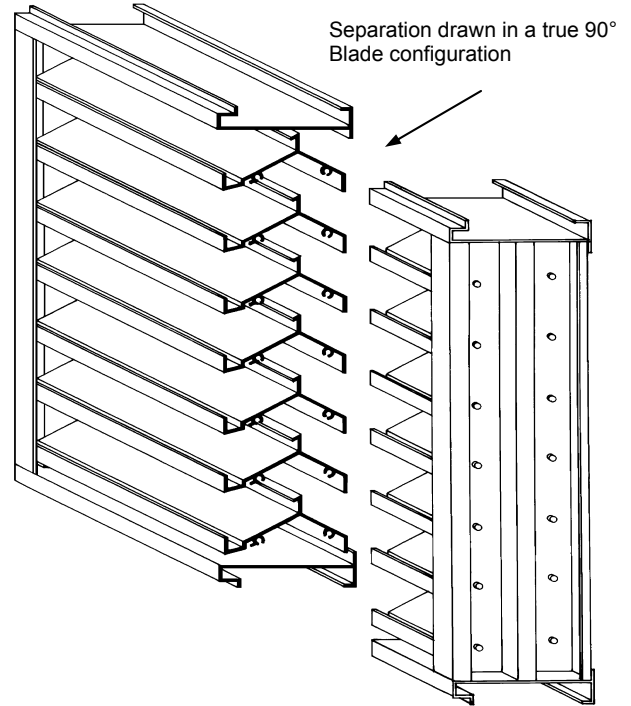
1/4" under ordered size unless specified Exact or Actual

SCREEN

3/4" x .051" flattened expanded aluminum bird screen no frame

FINISH

Mill



OPTIONAL CONSTRUCTION

FRAME – Available in a heavier extrusion of .125"

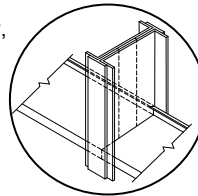
BLADES – Available in a heavier extrusion of .125"

SCREEN - Many styles available please consult screen listing

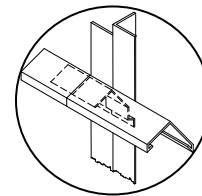
FINISH – Air-dry primer, polyurethane, epoxy, or enamel. Baked epoxy, Anodize or Kynar 500

MULLION – Visible for architectural preference

MULLION STYLES



Visible



Invisible

PERFORMANCE

Point of water penetration
1121 fpm
Free area
48 x 48 section
57%

SPECIAL PURPOSE CONSTRUCTION

Fully welded construction

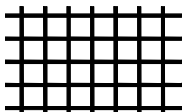
Security bars

Filter racks

Hinged as walk through door or for swing out access

Sleeved for ductwork connection

TYPICAL SCREEN STYLES

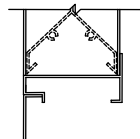


Wire Mesh

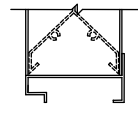


Expanded Aluminum Standard

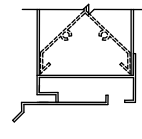
FRAME STYLES



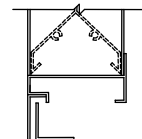
1 - Flange (1.5")



3 - Box



8 - Box with Sill Extension



9 - Flange with Sub Frame

DATE		ARCHITECT		CUSTOMER	
PROJECT					
ITEM	QTY	W	H		<p>SAFE AIR / DOWCO certifies that the DEM-05 louver 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 Air Performance ratings, Water Penetration and Wind Driven Rain ratings.</p>



DEPENDABLE PRODUCTS SINCE 1955

SAFE-AIR OF ILLINOIS INC.

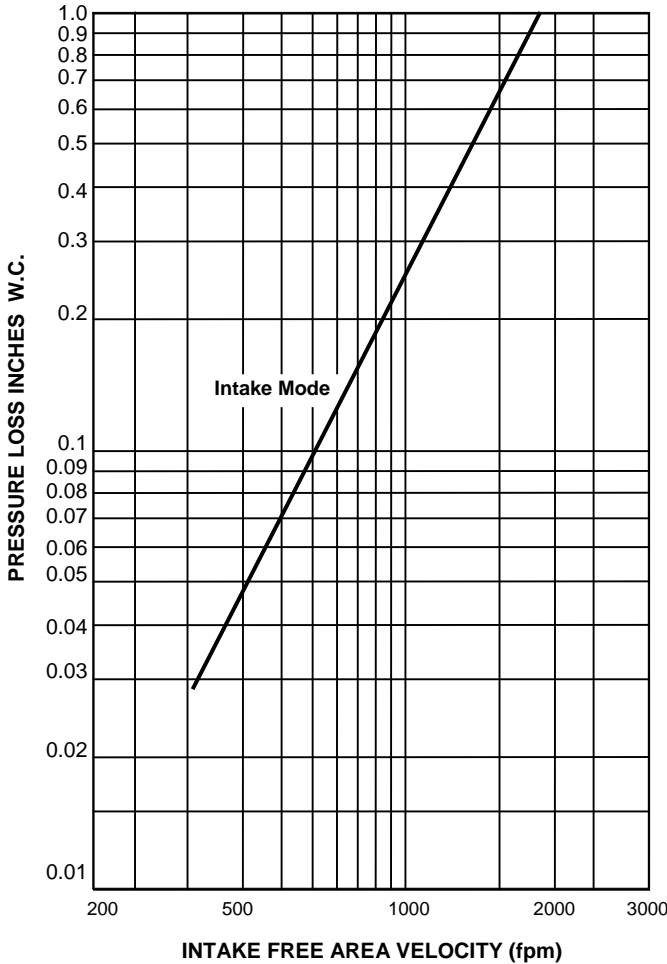
Engineering and General Offices

1855 South 54th Avenue, Cicero, Illinois 60804

Phone 708-652-9100 FAX 708-652-9158

All tests performed at AMCA laboratory and based on AMCA 511 – 91 for air performance, water penetration and wind driven rain.

AIR PERFORMANCE

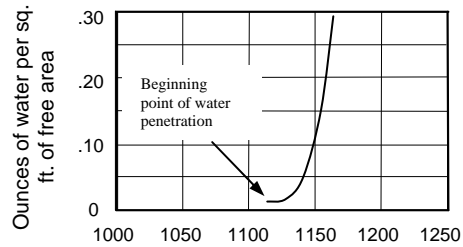


SAFE AIR / DOWCO

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Water Penetration Graph

in oz. of water per sq. ft. of free area over a 15 min. test period



1121 fpm (374) beginning of water penetration

Wind Driven Rain Performance

The louver test was based on a 39.37" x 39.37" core area unit tested at a rainfall rate of 3" per hour and with a wind directed to the face of the louver at a velocity of (29.1) mph as well as a rainfall rate of 8" per hour and wind a wind velocity of (50) mph. The test data shall show the water penetration effectiveness rating at each corresponding ventilation rate.

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

WIND DRIVEN RAIN PERFORMANCE		A = 1 to 0.99	B = 0.989 to 0.95	C = 0.949 to 0.80	D = 0.799 to 0				
3" per hour Rainfall Rate @ 29 mph Wind Velocity	Core Ventilation Rate (FPM)	0	124	198	285	378	471	585	674
	Water Penetration Effectiveness	99%	97.3%	96.7%	95.7%	94.2%	92.3%	88.7%	82.3%
	Water Penetration Classification	A	B	B	B	C	C	C	C
8" per hour Rainfall Rate @ 50 mph Wind Velocity	Core Ventilation Rate (FPM)	0	95	195	283	408	491	575	674
	Water Penetration Effectiveness	96.2%	94.7%	93.2%	91.1%	86.7%	82.8%	80.6%	72.3%
	Water Penetration Classification	B	C	C	C	C	C	C	D

FREE AREA CALCULATION		WIDTH																		
HEIGHT	Inches	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
	12	0.36	0.56	0.76	0.97	1.17	1.37	1.58	1.78	1.98	2.19	2.39	2.59	2.80	3.00	3.20	3.41	3.61	3.81	4.02
18	0.63	1.00	1.36	1.72	2.08	2.44	2.81	3.17	3.53	3.89	4.25	4.62	4.98	5.34	5.70	6.06	6.43	6.79	7.15	
24	0.91	1.43	1.95	2.47	2.99	3.52	4.04	4.56	5.08	5.60	6.12	6.64	7.16	7.68	8.20	8.72	9.24	9.77	10.29	
30	1.19	1.87	2.55	3.23	3.91	4.59	5.27	5.95	6.63	7.31	7.99	8.66	9.34	10.02	10.70	11.38	12.06	12.74	13.42	
36	1.47	2.31	3.14	3.98	4.82	5.66	6.50	7.34	8.17	9.01	9.85	10.69	11.53	12.37	13.20	14.04	14.88	15.72	16.56	
42	1.74	2.74	3.74	4.74	5.73	6.73	7.73	8.72	9.72	10.72	11.72	12.71	13.71	14.71	15.70	16.70	17.70	18.70	19.69	
48	2.06	3.24	4.41	5.59	6.77	7.94	9.12	10.30	11.47	12.65	13.83	15.00	16.18	17.36	18.53	19.71	20.89	22.06	23.24	
54	2.30	3.62	4.93	6.24	7.56	8.87	10.19	11.50	12.82	14.13	15.45	16.76	18.08	19.39	20.70	22.02	23.33	24.65	25.96	
60	2.58	4.05	5.53	7.00	8.47	9.95	11.42	12.89	14.37	15.84	17.31	18.79	20.26	21.73	23.21	24.68	26.15	27.63	29.10	
66	2.86	4.49	6.12	7.75	9.38	11.02	12.65	14.28	15.91	17.54	19.18	20.81	22.44	24.07	25.71	27.34	28.97	30.60	32.23	
72	3.13	4.92	6.72	8.51	10.30	12.09	13.88	15.67	17.46	19.25	21.04	22.83	24.62	26.41	28.21	30.00	31.79	33.58	35.37	
78	3.41	5.36	7.31	9.26	11.21	13.16	15.11	17.06	19.01	20.96	22.91	24.86	26.81	28.76	30.71	32.66	34.61	36.55	38.50	
84	3.69	5.80	7.91	10.01	12.12	14.23	16.34	18.45	20.56	22.66	24.77	26.88	28.99	31.10	33.21	35.31	37.42	39.53	41.64	
90	3.97	6.23	8.50	10.77	13.04	15.30	17.57	19.84	22.10	24.37	26.64	28.91	31.17	33.44	35.71	37.97	40.24	42.51	44.77	
96	4.25	6.67	9.10	11.52	13.95	16.37	18.80	21.23	23.65	26.08	28.50	30.93	33.36	35.78	38.21	40.63	43.06	45.48	47.91	