

## 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 2.50" @ 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

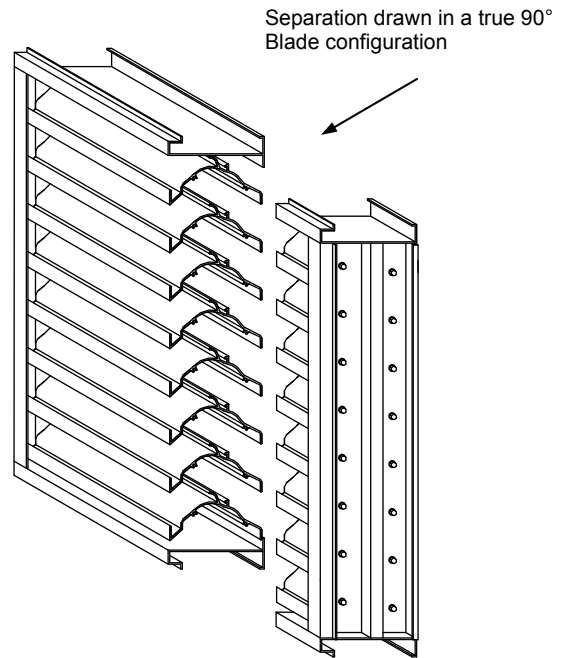
1/4" under ordered size unless specified Exact or Actual

#### SCREEN

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

#### FINISH

Mill



### OPTIONAL CONSTRUCTION

**FRAME** – Available in a heavier extrusion of .125"

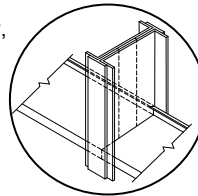
**BLADES** – Available in a heavier extrusion of .125"

**SCREEN** - Many styles available please consult screen listing

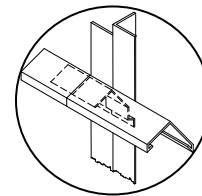
**FINISH** – Air-dry primer, polyurethane, epoxy, or enamel. Baked epoxy, Anodize or Kynar 500

**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

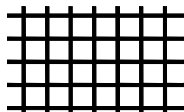
Security bars

Filter racks

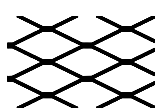
Hinged as walk through door or for swing out access

Sleeved for ductwork connection

### TYPICAL SCREEN STYLES

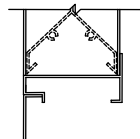


Wire Mesh

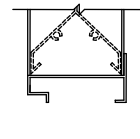


Expanded Aluminum Standard

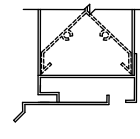
### FRAME STYLES



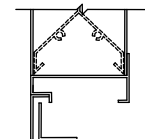
1 - Flange (1.5")



3 - Box



8 - Box with Sill Extension



9 - Flange with Sub Frame

DATE		ARCHITECT		CUSTOMER	
PROJECT					
ITEM	QTY	W	H		<p><b>SAFE AIR / DOWCO</b> 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.**

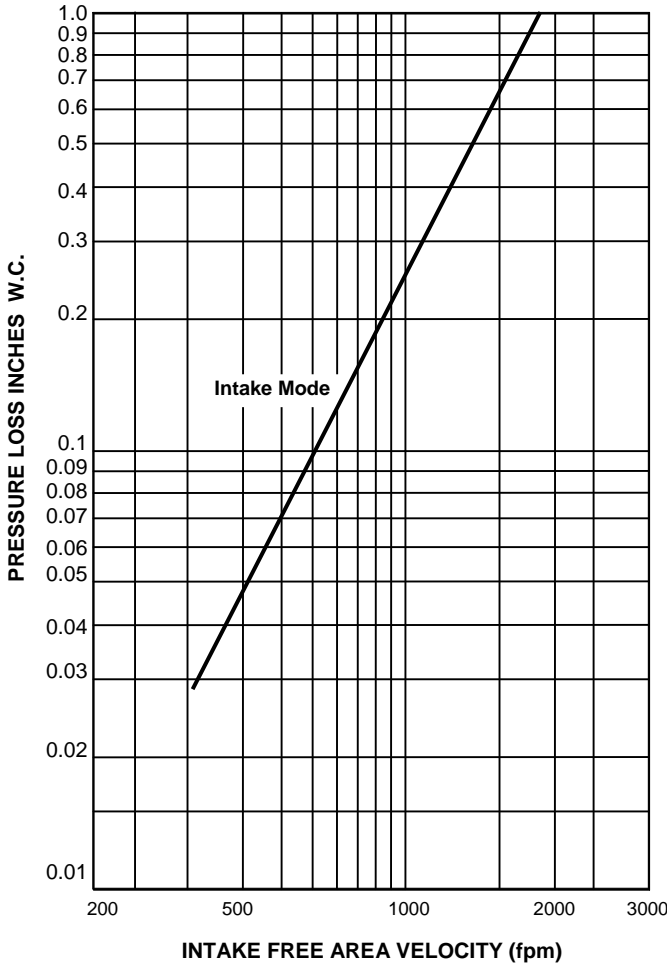
Engineering and General Offices

1855 South 54<sup>th</sup> 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

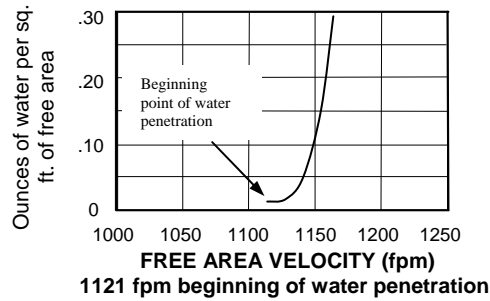


### SAFE AIR / DOWCO

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 Seals applies to Air Performance ratings, Water Penetration and Wind Driven Rain ratings.

### Water Penetration Graph

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



### 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) mph as well as a rainfall rate of 8" per hour and with a wind velocity of (50) mph. The test data 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	