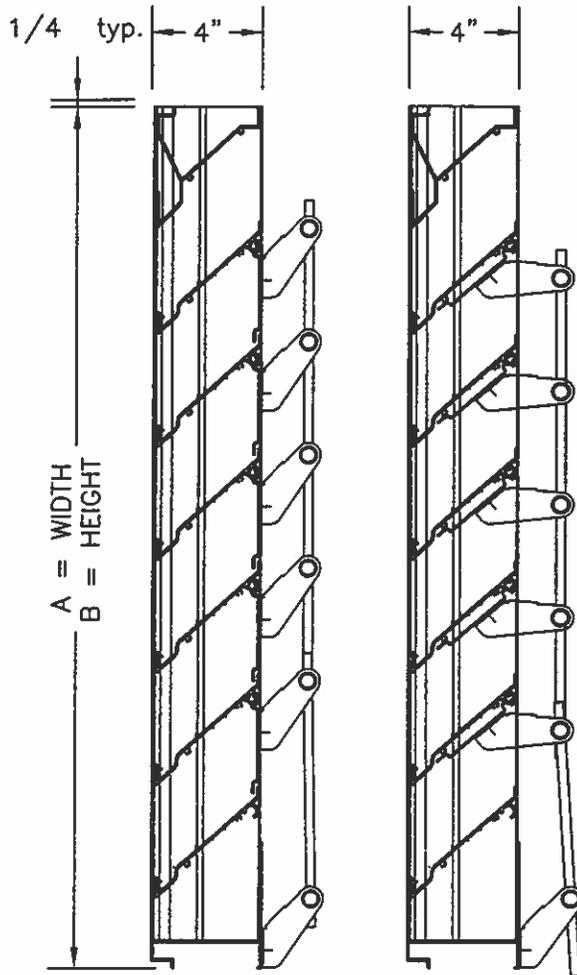


# EXTRUDED ALUMINUM, 4" DEEP, COMBINATION ADJUSTABLE AND STATIONARY TYPE BLADE

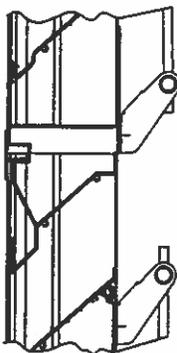


SECTION VIEW  
(BLADES CLOSED)

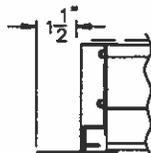
SECTION VIEW  
(BLADES OPEN)

## MODEL AC-45C STANDARD SPECIFICATION

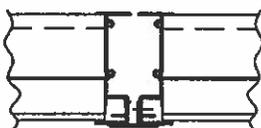
- FRAME: 4" DEEP CHANNEL .081 THICK  
6063-T5 ALUMINUM ALLOY
- BLADES: .081" THICK 6063-T5 ALUMINUM ALLOY.
- AXLES: FULL BLADE ALUMINUM EXTRUSION
- LINKAGE: PLATED STEEL BRACKETS, BRASS BARRELS,  
5/16 DIA. PLATED STEEL LINKAGE ROD
- SEALS: VINYL ON BLADE.
- SCREEN: 1/2" REMOVABLE EXPANDED ALUMINUM  
BIRD SCREEN, LOCATED ON EXTERIOR.
- ACTUATOR: INDIVIDUAL PANEL WINGNUT, SEE ACTUATOR  
BULLETIN FOR OTHER SELECTIONS.
- FINISH: MILL
- MAX. PANEL SIZE: 60 x 96
- MIN. PANEL SIZE: 12 x 13
- DIMENSIONS: "A" (WIDTH) AND "B" (HEIGHT) ARE  
OPENING SIZES. LOUVERS ARE  
MADE 1/2" UNDERSIZED



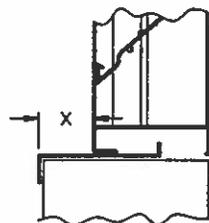
STANDARD HORIZONTAL  
MULLION



FLANGED FRAME  
OPTIONAL  
(JAMB SHOWN)



STANDARD VERTICAL  
MULLION



EXTENDED SILL  
OPTIONAL



L&D certifies that the model AC-45C 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 and water penetration ratings.

## **D** LOUVERS & DAMPERS A MESTEK COMPANY

7435 INDUSTRIAL ROAD  
Phone (859) 647-2299

FLORENCE, KY  
Fax (859) 647-7810

### AC-45C COMBINATION LOUVER

DRN. BY JVC

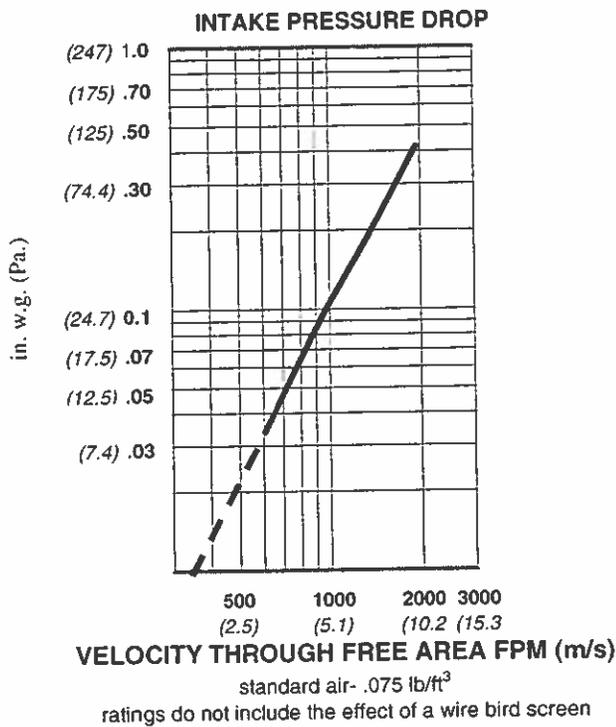
DWG. NO.

REV.

DATE 5-08-03

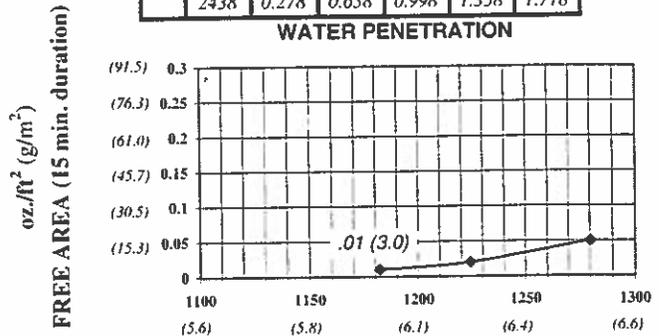
AC-45C

**Water Penetration** : .01 oz. (3.0) at 1182 fpm (6.00 m/s) recommended free area velocity  
**Pressure drop** : .14 in wg. (36.5 Pa.) at 1182 fpm (6.00 m/s) and 7411 SCFM (3.54 scm/s)  
**Free Area** : 6.27 sqft (0.582 sqm) = 39.2% for 48" x 48" (1.22m x 1.22m) test size



**FREE AREA IN ft<sup>2</sup> and m<sup>2</sup>**

HEIGHT	WIDTH					
	in.	12	24	36	48	60
	mm	305	610	914	1219	1524
13		0.14	0.33	0.51	0.70	0.88
330		0.013	0.030	0.048	0.065	0.082
24		0.43	0.98	1.53	2.09	2.64
610		0.040	0.091	0.143	0.194	0.245
36		0.85	1.96	3.07	4.18	5.28
914		0.079	0.182	0.285	0.388	0.491
48		1.28	2.94	4.60	6.27	7.93
1219		0.119	0.273	0.428	0.582	0.736
60		1.71	3.92	6.14	8.35	10.57
1524		0.159	0.364	0.570	0.776	0.982
72		2.13	4.90	7.67	10.44	13.21
1829		0.198	0.456	0.713	0.970	1.227
84		2.56	5.88	9.21	12.53	15.85
2134		0.238	0.547	0.855	1.164	1.473
96		2.99	6.87	10.74	14.62	18.50
2438		0.278	0.638	0.998	1.358	1.718



L&D certifies that the model AC45C 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 and water penetration ratings.

**LEAKAGE:**

We have shown two leakage values for the louver sizes below. The upper values with blade seals, and lower values are with optional blade and jamb seals. Values were derived from tests performed in accordance with AMCA 500. Values are in total (CFM) at 1/2 inch water gauge differential pressure.

**TOTAL LEAKAGE IN SCFM @ .5 in. wgD P CLOSING TORQUE IN inch/pounds**

HEIGHT		WIDTH				
		SEALS	12	24	36	48
12	BLADE	5	11	16	22	27
	BLD & JMB	4	8	13	17	21
24	BLADE	11	22	33	44	54
	BLD & JMB	8	17	25	34	42
36	BLADE	16	33	49	65	82
	BLD & JMB	13	25	38	50	63
48	BLADE	22	44	65	87	109
	BLD & JMB	17	34	50	67	84
60	BLADE	27	54	82	109	136
	BLD & JMB	21	42	63	84	105
72	BLADE	33	65	98	131	163
	BLD & JMB	25	50	75	101	126
84	BLADE	38	76	114	152	190
	BLD & JMB	29	59	88	117	147
96	BLADE	44	87	131	174	218
	BLD & JMB	34	67	101	134	168

Openings that require multiple louver panels in both width & height will require internal structural supports. It is recommended that large openings be divided with structural members so the louvers will span either width or height with a single panel. Unusually high wind loads may require structural supports on non-multiple wide and multiple high assemblies. Structural supports and mounting accessories are not supplied as a standard.

**OPERATING FORCE FACTOR:**

Louvers are normally operated by applying force to the blade to blade linkage whereas dampers are driven through the blade axes. Because of this fact, simple operating torque cannot be published. The factors shown are to be used with the data shown in our louver actuator selection guide in our louver actuator price list.

HEIGHT		WIDTH				
		SEALS	12	24	36	48
12	BLADE	6	9	14	16	18
	BLD & JMB	8	11	17	20	23
24	BLADE	11	17	26	31	36
	BLD & JMB	14	21	33	39	45
36	BLADE	14	36	53	62	72
	BLD & JMB	18	42	66	78	90
48	BLADE	22	50	79	94	108
	BLD & JMB	27	63	99	117	135
60	BLADE	29	67	106	125	144
	BLD & JMB	36	84	132	156	180
72	BLADE	36	84	132	156	180
	BLD & JMB	45	105	165	195	225
84	BLADE	43	100	158	187	216
	BLD & JMB	54	125	198	234	270
96	BLADE	50	116	185	218	252
	BLD & JMB	63	145	231	273	315