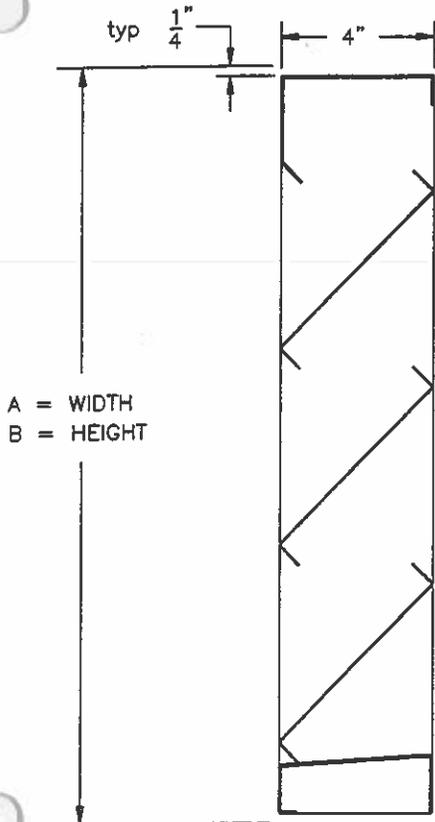


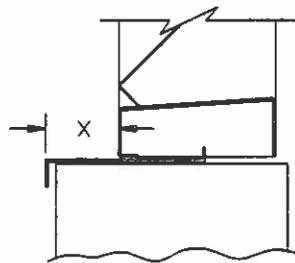
GALVANIZED STEEL, 4" DEEP, HEAVY GAUGE, J FIXED TYPE BLADE

MODEL FL-47 STANDARD SPECIFICATIONS

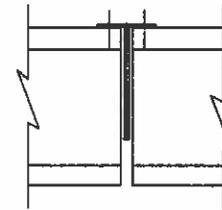
- FRAME: 4" DEEP CHANNEL, 16 GAUGE GALVANIZED STEEL.
- BLADES: 16 GAUGE GALVANIZED STEEL.
- FINISH: MILL WITH TOUCH UP ON WELDS.
- SCREEN: 1/2" REMOVABLE EXPANDED ALUMINUM BIRD SCREEN, LOCATED ON INTERIOR.
- MAXIMUM PANEL SIZE: 96" x 96".
- MINIMUM PANEL SIZE: 12" x 12".
- DIMENSIONS: "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING SIZES. LOUVERS ARE MADE 1/2" UNDERSIZE.



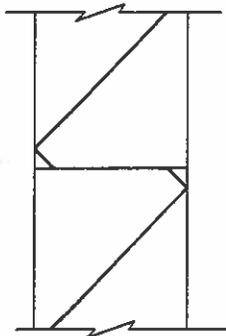
SECTION VIEW



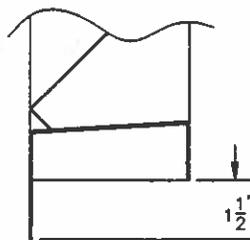
EXTENDED SILL
OPTIONAL



ARCHITECTURAL VERTICAL
MULLION OPTIONAL



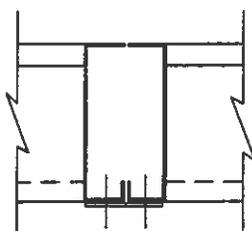
STANDARD HORIZONTAL



FLANGED FRAME
OPTIONAL
(JAMB SHOWN)



L&D certifies that the model FL-47 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.



STANDARD VERTICAL
MULLION

LD LOUVERS & DAMPERS A MESTEK COMPANY

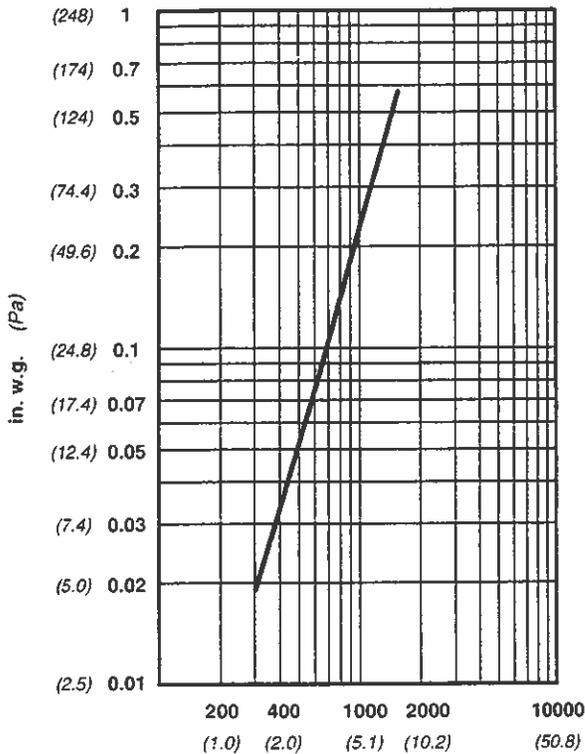
7435 INDUSTRIAL ROAD FLORENCE, KY
Phone (859) 647-2299 Fax (859) 647-7810

FL-47 STATIONARY LOUVER

DRN. BY ESS	DWG. NO. FL-47	REV.
DATE 12-01-02		

Water Penetration : 0.01 oz (3.0 g) at 566 fpm (2.87 m/s) recommended free area velocity
Pressure Drop : 0.065 in wg (16.1 Pa.) at 566 fpm (2.87 m/s) and 4109 scfm (1.94 scm/s)
Free Area : 7.26 sq ft (0.674 sq m) = 45.4% for 48" x 48" (1.22m x 1.22m) test size

INTAKE PRESSURE DROP

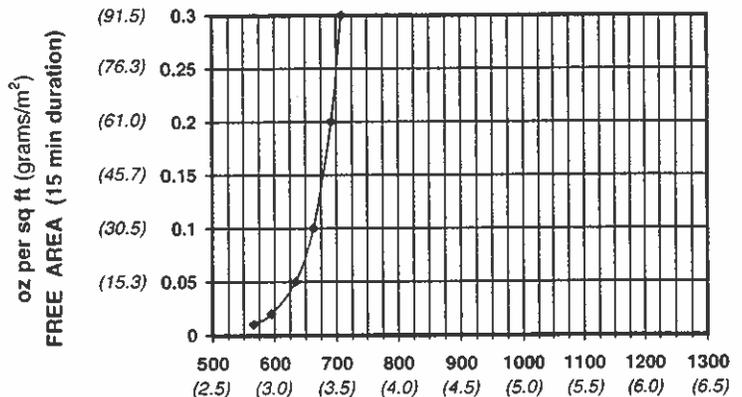


VELOCITY THROUGH FREE AREA fpm (m/s)
 standard air - .075 lbs per cu ft
 Ratings do not include the effect of a wire bird screen

FREE AREA IN SQUARE FEET (sq meters)

		WIDTH								
		in. mm	12 305	24 610	36 914	48 1219	60 1524	72 1829	84 2134	96 2438
HEIGHT	12 305	0.18 0.017	0.42 0.039	0.66 0.061	0.90 0.084	1.13 0.105	1.34 0.124	1.58 0.147	1.82 0.169	
	24 610	0.65 0.060	1.49 0.138	2.33 0.216	3.17 0.295	4.01 0.373	4.74 0.440	5.58 0.518	6.42 0.596	
	36 914	1.06 0.098	2.44 0.227	3.81 0.354	5.19 0.482	6.56 0.609	7.77 0.722	9.14 0.849	10.52 0.977	
	48 1219	1.48 0.138	3.41 0.317	5.33 0.495	7.26 0.674	9.18 0.853	10.86 1.009	12.79 1.188	14.71 1.367	
	60 1524	1.96 0.182	4.49 0.417	7.03 0.653	9.57 0.889	12.10 1.124	14.32 1.330	16.86 1.566	19.39 1.801	
	72 1829	2.33 0.216	5.35 0.497	8.38 0.779	11.40 1.059	14.42 1.340	17.07 1.586	20.09 1.866	23.12 2.148	
	84 2134	2.79 0.259	6.42 0.596	10.05 0.934	13.67 1.270	17.30 1.607	20.47 1.902	24.10 2.239	27.72 2.575	
	96 2438	3.21 0.298	7.37 0.685	11.53 1.071	15.69 1.458	19.85 1.844	23.50 2.183	27.66 2.570	31.82 2.956	

WATER PENETRATION



VELOCITY THROUGH FREE AREA fpm (m/s)
 Both maximum recommended free area velocity and beginning of water penetration are 566 fpm at standard air - .075 lbs per cu ft. The above water penetration data is based on mill finish, 48" x 48" test size per AMCA Standard 511.



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FL-47

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 566 fpm (2.87 m/s).

To determine minimum free area required for louver:

Step #1: Divide the required CFM flow by the maximum recommended free area velocity.

Step #2: Select the most desirable louver size, from the free area table, that meets the minimum free area requirement.

Step #3: Compare specified performance to the certified water penetration and pressure drop ratings.

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

Example: Given: 15000 CFM design flow

Step #1:

$$\begin{aligned}
 \text{min. free area} &= \frac{\text{Design CFM}}{\text{Max. Recommended Velocity}} \\
 &= \frac{15000}{566} = 26.5 \text{ sq ft}
 \end{aligned}$$

Step #2: From the free area table above the approximate louver size is 84" x 96" = (27.66 sq ft)