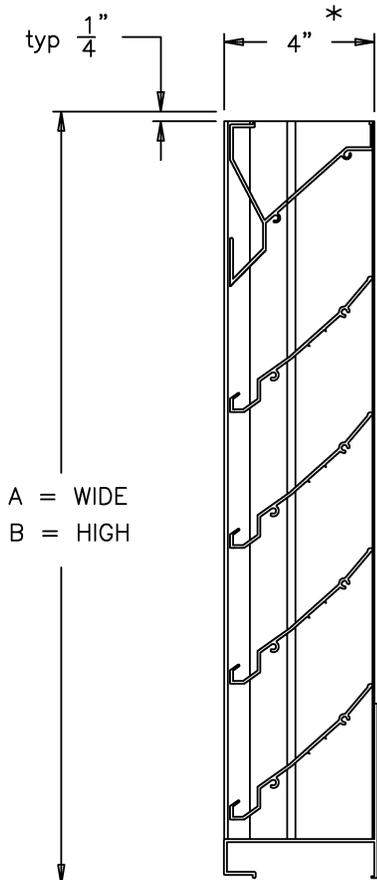


# EXTRUDED ALUMINUM, 4" DEEP, FIXED DRAINABLE TYPE BLADE



SECTION VIEW

A = WIDE  
B = HIGH

MODEL LE-23  
STANDARD SPECIFICATIONS

FRAME: 4" DEEP CHANNEL, .081" THICK 6063-T5 EXTRUDED ALUMINUM ALLOY.

BLADES: .081" THICK 6063-T5 EXTRUDED ALUMINUM ALLOY.

FINISH: MILL.

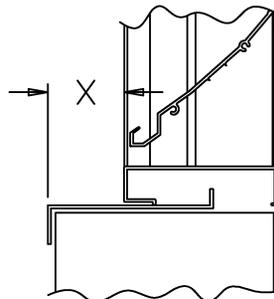
SCREEN: 1/2" REMOVABLE EXPANDED ALUMINUM BIRD SCREEN, LOCATED ON INTERIOR.

MAXIMUM PANEL SIZE: 96" X 96".

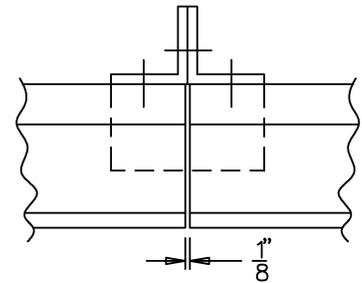
MINIMUM PANEL SIZE: 12" X 12".

DIMENSIONS: "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING SIZES. LOUVERS ARE MADE 1/2" UNDERSIZE.

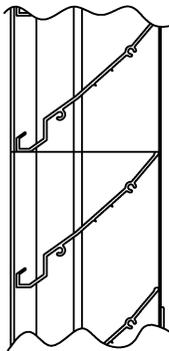
\* PANELS OVER 48" WIDE WILL HAVE A 1-1/2" X 1-1/2" X 1/8" VERTICAL INTERIOR BLADE SUPPORT ANGLE AT APPROXIMATE CENTER OF PANELS.



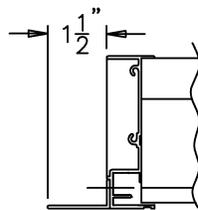
EXTENDED SILL  
OPTIONAL



ARCHITECTURAL VERTICAL  
MULLION OPTIONAL



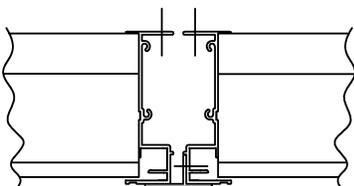
STANDARD HORIZONTAL  
MULLION



FLANGED FRAME  
OPTIONAL  
(JAMB SHOWN)



AWV certifies that the model LE-23 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

**awv** american warming and ventilating

A MESTEK COMPANY

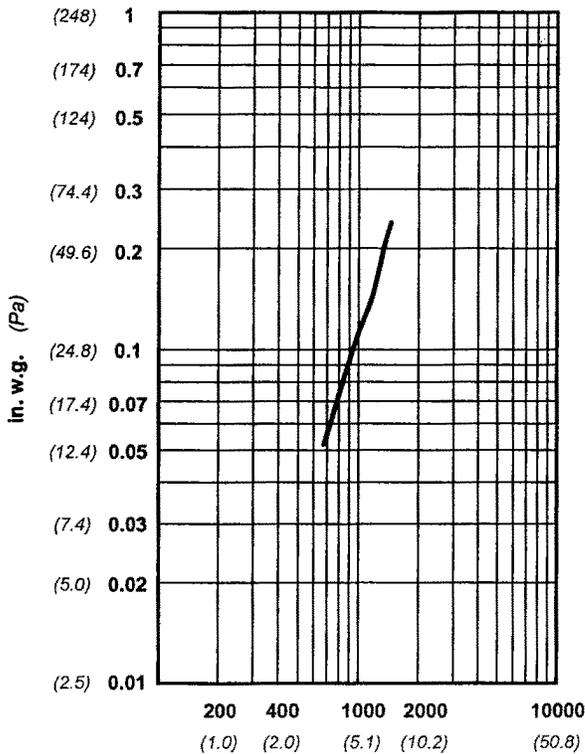
7301 INTERNATIONAL DRIVE HOLLAND, OHIO  
Phone (419) 865-5000 Fax (419) 865-1375

LE-23 STATIONARY LOUVER

DRN. BY	JVC	DWG. NO.	REV.
DATE	3/21/07	LE-23	

**Water Penetration** : 0.01 oz (3.0 g) at 1009 fpm (5.12 m/s) recommended free area velocity  
**Pressure Drop** : 0.125 in wg (31 Pa.) at 1009 fpm (5.12 m/s) and 8980 scfm (4.24 scm/s)  
**Free Area** : 8.9 sq ft (0.827 sq m) = 55.6% for 48" x 48" (1.22m x 1.22m) test size

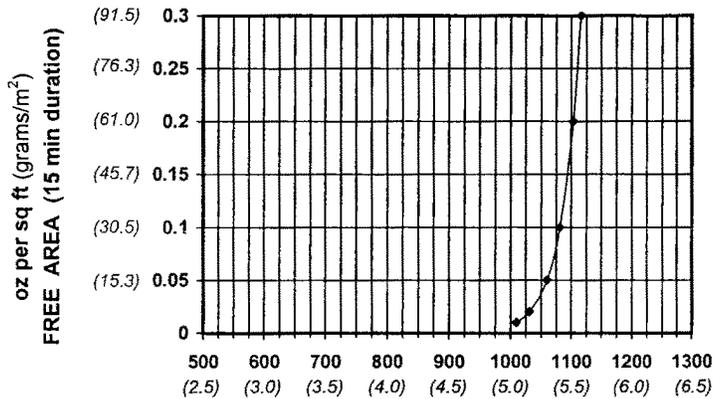
**INTAKE PRESSURE DROP**



**FREE AREA IN SQUARE FEET (sq meters)**

HEIGHT	WIDTH								
	in. mm	12 305	24 610	36 914	48 1219	60 1524	72 1829	84 2134	96 2438
12 305	0.28 0.026	0.65 0.060	1.02 0.095	1.39 0.129	1.71 0.159	2.08 0.193	2.45 0.228	2.82 0.262	
24 610	0.77 0.072	1.80 0.167	2.82 0.262	3.85 0.358	4.75 0.441	5.78 0.537	6.80 0.632	7.83 0.727	
36 914	1.28 0.119	2.98 0.277	4.68 0.435	6.38 0.593	7.87 0.731	9.57 0.889	11.27 1.047	12.97 1.205	
48 1219	1.77 0.165	4.13 0.384	6.49 0.603	8.90 0.823	10.92 1.015	13.28 1.234	15.64 1.453	18.01 1.673	
60 1524	2.26 0.210	5.27 0.490	8.29 0.770	11.30 1.050	13.94 1.295	16.95 1.575	19.97 1.855	22.98 2.135	
72 1829	2.76 0.256	6.43 0.597	10.10 0.938	13.78 1.280	16.99 1.578	20.67 1.920	24.34 2.261	28.01 2.602	
84 2134	3.25 0.302	7.58 0.704	11.91 1.106	16.24 1.509	20.03 1.861	24.36 2.263	28.69 2.665	33.02 3.068	
96 2438	3.74 0.347	8.73 0.811	13.71 1.274	18.70 1.737	23.06 2.142	28.05 2.606	33.03 3.069	38.02 3.532	

**WATER PENETRATION**



**VELOCITY THROUGH FREE AREA fpm (m/s)**

Both maximum recommended free area velocity and beginning of water penetration are 1009 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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**LE-23**

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 1009 fpm (5.12 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:**

$$\text{min. free area} = \frac{\text{Design CFM}}{\text{Max. Recommended Velocity}}$$

$$= \frac{15000}{1009} = 14.87 \text{ sq ft}$$

**Step #2:** From the free area table above the approximate louver size is 84" x 48" = (15.64 sq ft)