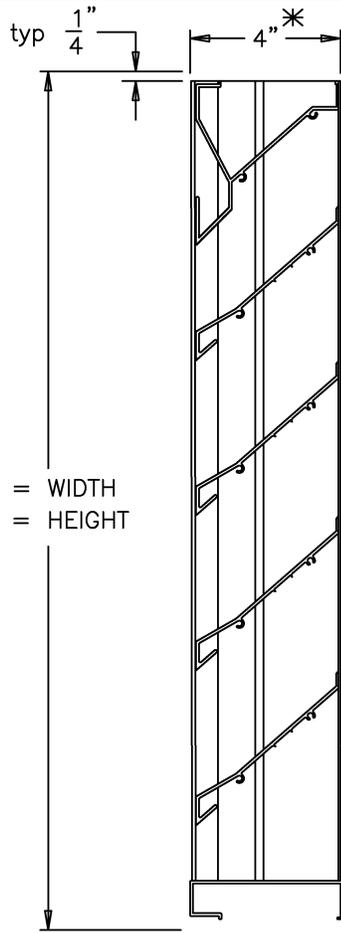


EXTRUDED ALUMINUM, 4" DEEP, FIXED NON-DRAINABLE TYPE BLADE



SECTION VIEW

A = WIDTH
B = HEIGHT

MODEL LE-27
STANDARD SPECIFICATIONS

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

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

FINISH: MILL.

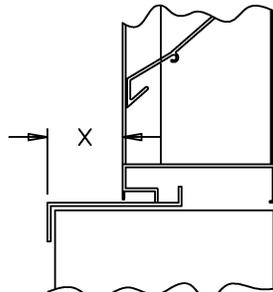
SCREEN: 1/2" REMOVABLE EXPANDED ALUMINUM BIRD SCREEN, LOCATED ON INTERIOR.

MAXIMUM PANEL SIZE: 96" X 96".

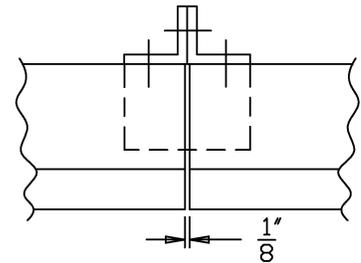
MINIMUM PANEL SIZE: 12" X 12".

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

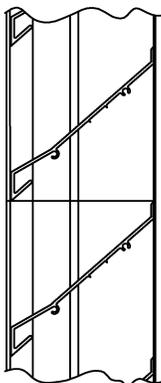
* PANELS OVER 48" WIDE WILL BE 5-1/2" DEEP DUE TO A VERTICAL INTERIOR BLADE SUPPORT ANGLE.



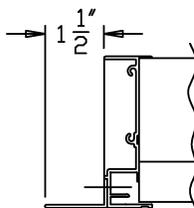
EXTENDED SILL
OPTIONAL



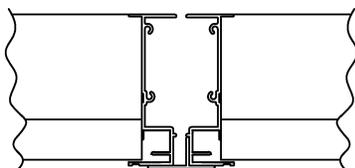
ARCHITECTURAL VERTICAL
MULLION OPTIONAL



STANDARD HORIZONTAL
MULLION



FLANGED FRAME
OPTIONAL
(JAMB SHOWN)



STANDARD VERTICAL
MULLION



American Warming and Ventilating certifies that the model LE-27 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.

awv american warming and ventilating

A MESTEK COMPANY

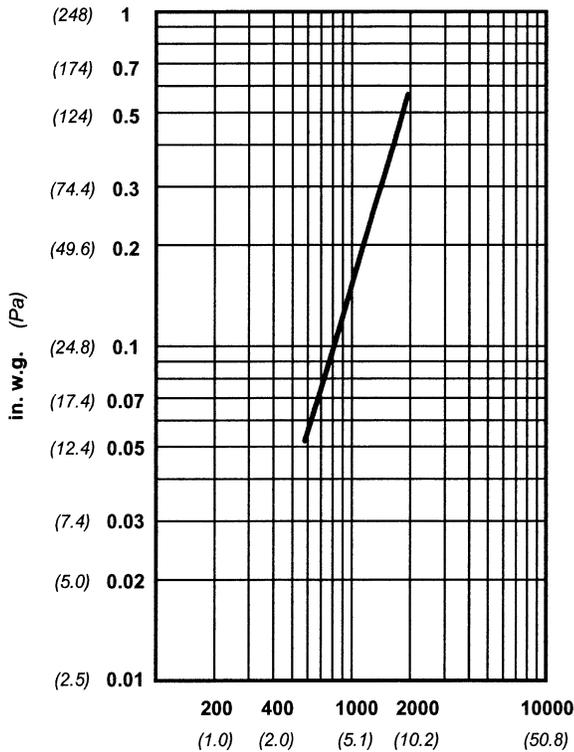
7301 INTERNATIONAL DRIVE HOLLAND, OHIO
Phone (419) 865-5000 Fax (419) 865-1375

LE-27 STATIONARY LOUVER

DRN. BY JP	DWG. NO. LE-27	REV.
DATE 7/24/08		

Water Penetration : 0.01 oz (3.0 g) at 779 fpm (3.96 m/s) recommended free area velocity
Pressure Drop : 0.09 in wg (22.3 Pa.) at 779 fpm (3.96 m/s) and 7034 scfm (3.32 scm/s)
Free Area : 9.03 sq ft (0.839 sq m) = 56.4% 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
 Test based on a 48" x 48" test size per AMCA Standard 511



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LE-27

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 779 fpm (3.96 m/s).

To determine minimum free area required for louver:

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

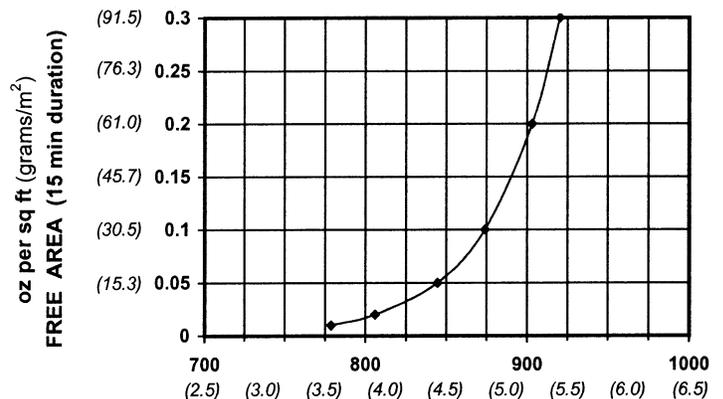
Step #2: Select the most desirable louver size, from the free area table, that meets the minimum free area requirement.

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

FREE AREA IN SQUARE FEET (sq meters)

		WIDTH							
		in. mm	12 305	24 610	36 914	48 1219	60 1524	72 1829	84 2134
HEIGHT	12 305	0.29 0.027	0.68 0.063	1.06 0.098	1.45 0.135	1.79 0.166	2.17 0.202	2.56 0.238	2.95 0.274
	24 610	0.78 0.072	1.82 0.169	2.87 0.267	3.91 0.363	4.82 0.448	5.86 0.544	6.90 0.641	7.95 0.739
	36 914	1.27 0.118	2.97 0.276	4.67 0.434	6.37 0.592	7.85 0.729	9.55 0.887	11.25 1.045	12.95 1.203
	48 1219	1.77 0.164	4.12 0.383	6.47 0.601	9.03 0.820	10.89 1.011	13.24 1.230	15.59 1.449	17.95 1.667
	60 1524	2.26 0.210	5.27 0.490	8.28 0.769	11.29 1.049	13.92 1.293	16.93 1.573	19.94 1.852	22.95 2.132
	72 1829	2.75 0.255	6.41 0.596	10.08 0.936	13.74 1.276	16.95 1.575	20.62 1.916	24.28 2.256	27.95 2.597
	84 2134	3.24 0.301	7.56 0.702	11.88 1.104	16.20 1.505	19.98 1.856	24.30 2.258	28.63 2.660	32.95 3.061
	96 2438	3.73 0.347	8.71 0.809	13.69 1.272	18.66 1.734	23.02 2.139	27.99 2.600	32.97 3.063	37.95 3.526

WATER PENETRATION



VELOCITY THROUGH FREE AREA fpm (m/s)

Both maximum recommended free area velocity and beginning of water penetration are 779 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.

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:

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

$$= \frac{15000}{779} = 19.26 \text{ sq ft}$$

Step #2: From the free area table above the approximate louver size is 84" x 60" = (19.94 sq ft)