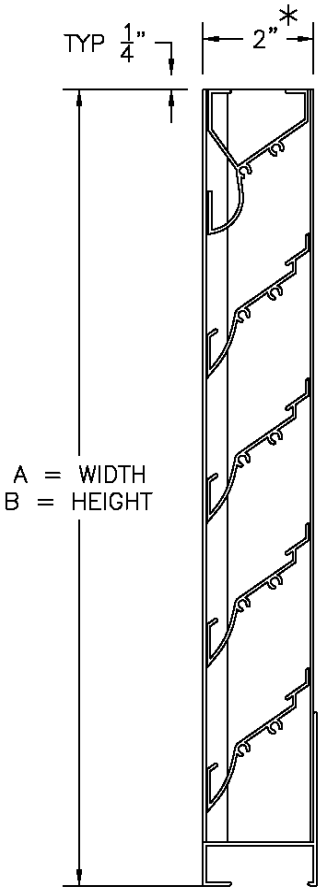
EXTRUDED ALUMINUM, 2" DEEP, FIXED DRAINABLE BLADE



SECTION VIEW

MODEL LE–58
STANDARD SPECIFICATION

FRAME: 2" DEEP CHANNEL, .063 THICK 6063–T5 ALUMINUM ALLOY

BLADES: .063" THICK 6063–T5 ALUMINUM ALLOY.

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

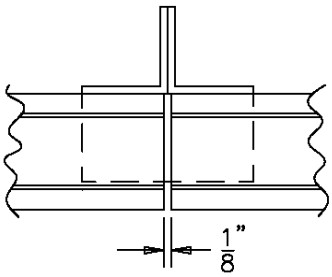
FINISH: MILL.

MAX. PANEL SIZE: 96" x 96"

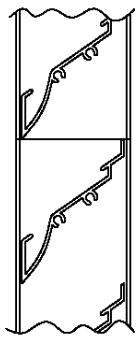
MIN. PANEL SIZE: 12" x 12"

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

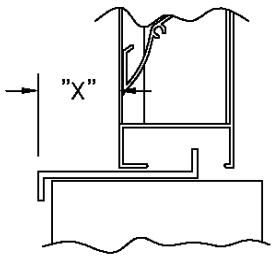
* PANELS OVER 48" WIDE WILL BE 3–1/2" DEEP DUE TO A VERTICAL INTERIOR BLADE SUPPORT ANGLE.



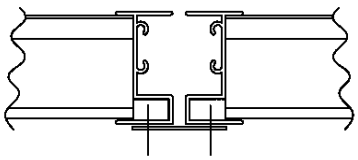
ARCHITECTURAL
OPTIONAL



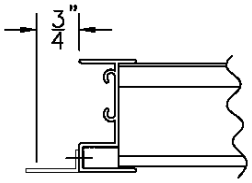
STANDARD HORIZONTAL
MULLION



EXTENDED SILL
OPTIONAL



STANDARD VERTICAL
MULLION



FLANGED FRAME
OPTIONAL
(JAMB SHOWN)

AWV certifies that the model LE–58 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.

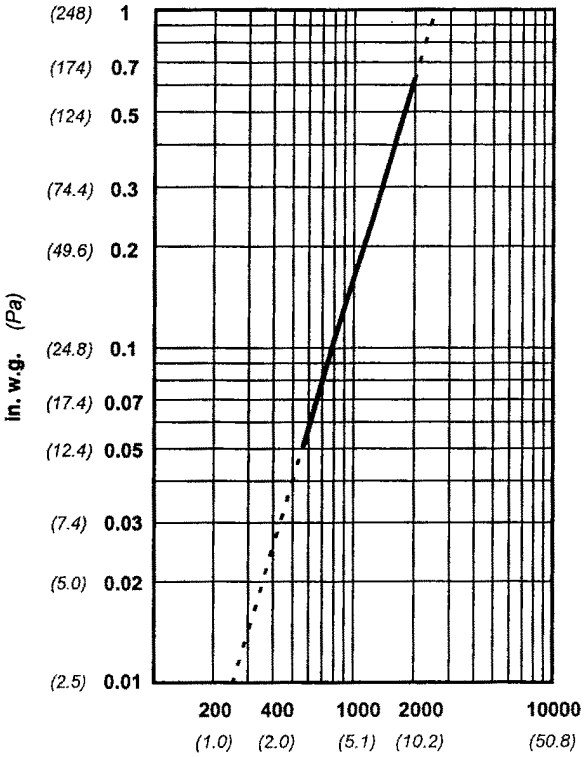
awv® american warming and ventilating
A MESTEK COMPANY
7301 INTERNATIONAL DRIVE HOLLAND, OHIO
Phone (419) 865–5000 Fax (419) 865–1375

LE–58 STATIONARY LOUVER

DRN. BY	DWG. NO.	REV.
JVC	LE–58	
DATE 3/21/07		

Water Penetration : 0.01 oz (3.0 g) at 872 fpm (4.43 m/s) recommended free area velocity
Pressure Drop : 0.15 in wg (37.2 Pa.) at 872 fpm (4.43 m/s) and 6775 scfm (3.2 scm/s)
Free Area : 7.77 sq ft (0.722 sq m) = 48.6% for 48" x 48" (1.22m x 1.22m) test size

INTAKE PRESSURE DROP

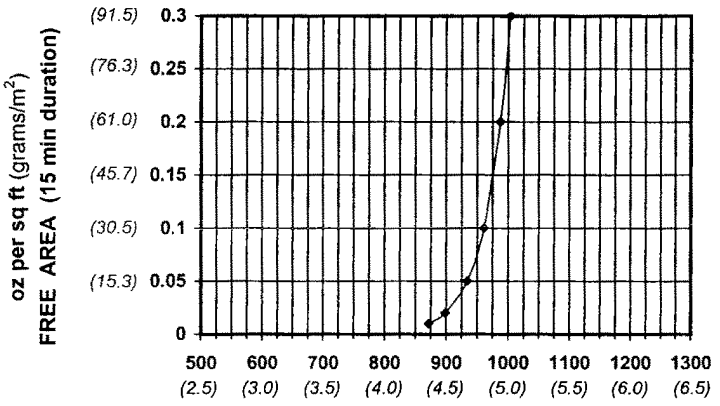


VELOCITY THROUGH FREE AREA fpm (m/s)
standard air- .075 lbs per cu ft
Ratings do not include the effect of a wire bird screen
Test based on a 48" x 48" test size per AMCA Standard 511

FREE AREA IN SQUARE FEET *(sq meters)*

HEIGHT \ WIDTH	12	24	36	48	60	72	84	96
in. / mm	305	610	914	1219	1524	1829	2134	2438
12 / 305	0.26 / 0.024	0.58 / 0.054	0.89 / 0.083	1.21 / 0.112	1.49 / 0.138	1.81 / 0.168	2.13 / 0.198	2.45 / 0.228
24 / 610	0.72 / 0.067	1.61 / 0.150	2.51 / 0.233	3.40 / 0.316	4.18 / 0.388	5.07 / 0.471	5.96 / 0.554	6.86 / 0.637
36 / 914	1.19 / 0.111	2.65 / 0.246	4.12 / 0.383	5.59 / 0.519	6.87 / 0.638	8.34 / 0.775	9.81 / 0.911	11.27 / 1.047
48 / 1219	1.65 / 0.153	3.69 / 0.343	5.73 / 0.533	7.77 / 0.722	9.56 / 0.888	11.60 / 1.078	13.64 / 1.268	15.69 / 1.457
60 / 1524	2.02 / 0.188	4.52 / 0.420	7.02 / 0.652	9.53 / 0.885	11.71 / 1.088	14.22 / 1.321	16.72 / 1.553	19.22 / 1.786
72 / 1829	2.48 / 0.230	5.56 / 0.517	8.64 / 0.803	11.71 / 1.088	14.40 / 1.338	17.48 / 1.624	20.55 / 1.909	23.63 / 2.195
84 / 2134	2.95 / 0.274	6.60 / 0.613	10.25 / 0.952	13.90 / 1.291	17.09 / 1.588	20.74 / 1.927	24.39 / 2.266	28.04 / 2.605
96 / 2438	3.41 / 0.317	7.64 / 0.710	11.86 / 1.102	16.09 / 1.495	19.78 / 1.838	24.01 / 2.231	28.23 / 2.623	32.46 / 3.016

WATER PENETRATION



VELOCITY THROUGH FREE AREA fpm (m/s)
Both maximum recommended free area velocity and beginning of water penetration are 872 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.

AMCA CERTIFIED RATINGS — WATER PENETRATION — AIR PERFORMANCE — AIR MOVEMENT AND CONTROL ASSOCIATION, INC.

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LE-58

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.**

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 872 fpm (4.43 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.

Example: Given: 15000 CFM design flow

Step #1:

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

$$= \frac{15000}{872} = \textbf{17.2 sq ft}$$

Step #2: From the free area table above the approximate louver size is 72" x 72" = (17.48 sq ft)