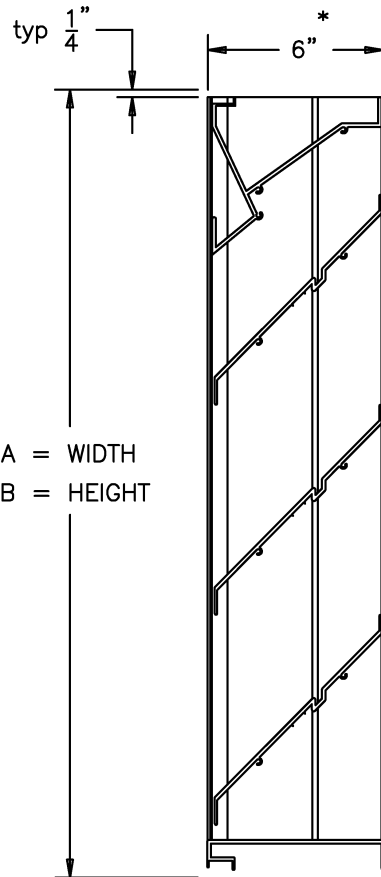


EXTRUDED ALUMINUM, 6" DEEP, J/K TYPE BLADE



SECTION VIEW

MODEL LE-63 STANDARD SPECIFICATIONS

FRAME: 6" DEEP CHANNEL, .081" THICK 6063-T5 EXTRUDED ALUMINUM ALLOY.

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

FINISH: MILL.

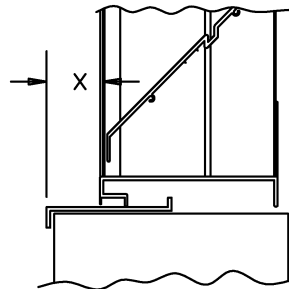
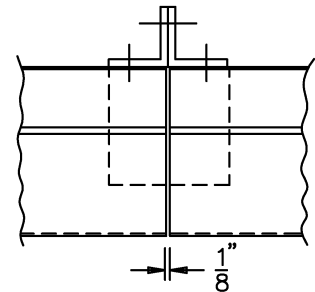
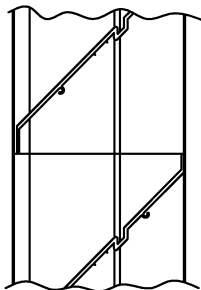
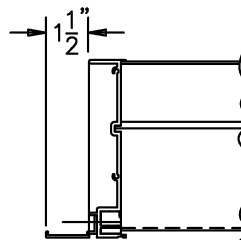
SCREEN: 1/2" REMOVABLE EXPANDED ALUMINUM BIRD SCREEN, LOCATED ON INTERIOR.

MAXIMUM PANEL SIZE: 96" x 96".

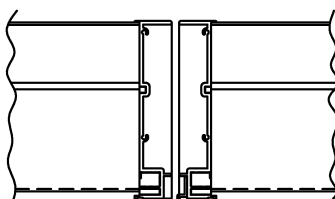
MINIMUM PANEL SIZE: 12" x 12".

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

* PANELS OVER 48" WIDE WILL BE 7-1/2" DEEP DUE TO A VERTICAL INTERIOR BLADE SUPPORT ANGLE.

EXTENDED SILL
OPTIONALARCHITECTURAL VERTICAL
MULLION OPTIONALSTANDARD HORIZONTAL
MULLIONFLANGED FRAME
OPTIONAL
(JAMB SHOWN)

AWV certifies that the model LE-63 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-63 STATIONARY LOUVER

DRN. BY ESS

DWG. NO.

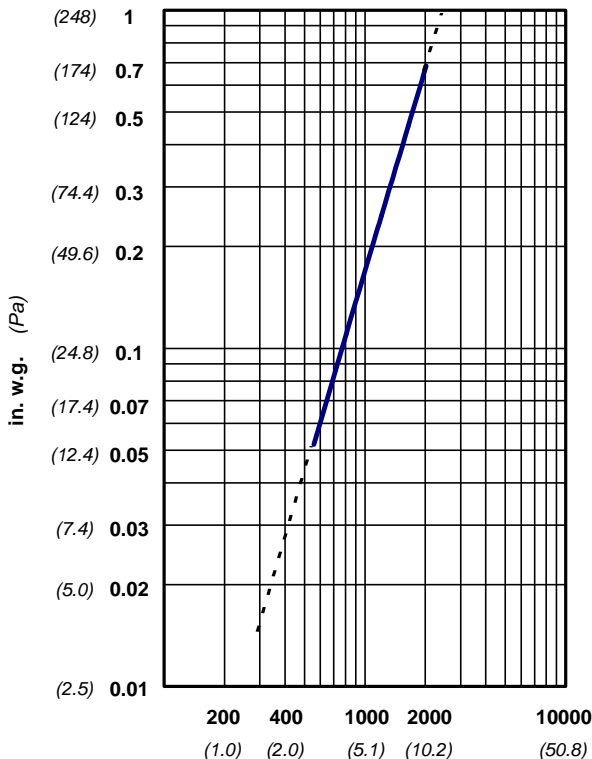
REV.

DATE 12-04-03

LE-63

Water Penetration : 0.01 oz (3.0 g) at 1076 fpm (5.46 m/s) recommended free area velocity
Pressure Drop : 0.2 in wg (49.6 Pa.) at 1076 fpm (5.46 m/s) and 8522 scfm (4.02 scm/s)
Free Area : 7.92 sq ft (0.736 sq m) = 49.5% 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-63

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 1076 fpm (5.46 m/s).

To determine minimum free area required for louver:

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

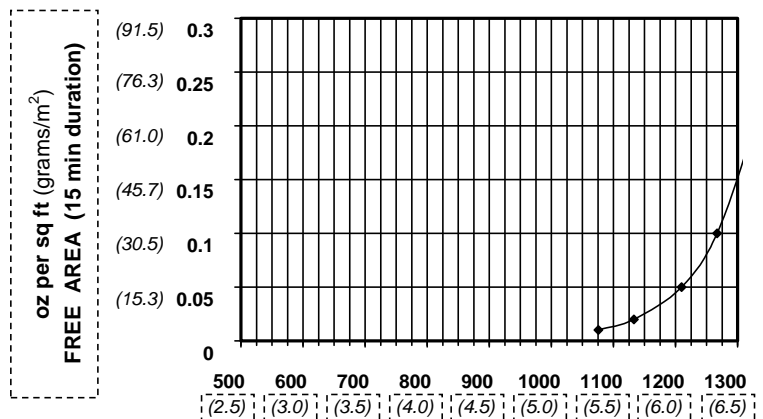
Step #2: Select the most desirable louver size, from the free area table, that meets the minimum free area requirement.

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	96 2438
HEIGHT	12 305	0.18 0.017	0.41 0.038	0.63 0.059	0.86 0.080	1.09 0.101	1.29 0.120	1.52 0.141	1.75 0.163
	24 610	0.76 0.071	1.75 0.163	2.75 0.255	3.74 0.347	4.73 0.439	5.59 0.519	6.58 0.611	7.58 0.704
	36 914	1.19 0.111	2.73 0.254	4.27 0.397	5.81 0.540	7.36 0.684	8.70 0.808	10.25 0.952	11.79 1.095
	48 1219	1.58 0.147	3.63 0.337	5.68 0.528	7.92 0.718	9.78 0.909	11.57 1.075	13.62 1.266	15.67 1.456
	60 1524	2.05 0.190	4.70 0.437	7.36 0.684	10.02 0.931	12.67 1.177	15.00 1.394	17.66 1.641	20.31 1.887
	72 1829	2.63 0.244	6.05 0.562	9.47 0.880	12.89 1.198	16.31 1.515	19.30 1.793	22.72 2.111	26.14 2.428
	84 2134	3.06 0.284	7.03 0.653	11.00 1.022	14.97 1.391	18.94 1.760	22.41 2.082	26.38 2.451	30.35 2.820
	96 2438	3.49 0.324	8.03 0.746	12.56 1.167	17.09 1.588	21.63 2.009	25.59 2.377	30.13 2.799	34.66 3.220

WATER PENETRATION



VELOCITY THROUGH FREE AREA fpm (m/s)

Both maximum recommended free area velocity and beginning of water penetration are 1076 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:

$$\text{min. free area} = \frac{\text{Design CFM}}{\text{Max. Recommended Velocity}} = \frac{15000}{1076} = 13.94 \text{ sq ft}$$

Step #2: From the free area table above the approximate louver size is 48" x 84" = (14.97 sq ft)