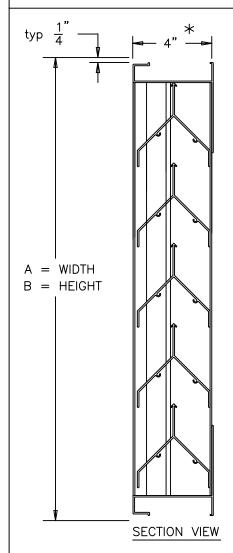
EXTRUDED ALUMINUM, 4" DEEP, FIXED SIGHT PROOF HORIZONTAL Y TYPE BLADE



MODEL LE-81H STANDARD SPECIFICATIONS

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

EXTRUDED ALUMINUM ALLOY.

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

ALLOY.

FINISH: MILL.

1/2" REMOVABLE EXPANDED ALUMINUM BIRD SCREEN:

SCREEN, LOCATED ON INTERIOR.

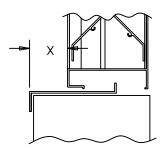
MAXIMUM PANEL SIZE: 96" X 96".

MINIMUM PANEL SIZE: 12" X 12".

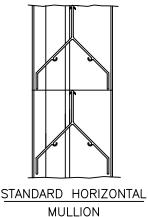
DIMENSIONS: "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING SIZÈS. LÓUVERS ARÈ MADE 1/2" UNDERSIZE.

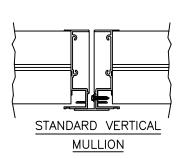
* PANELS OVER 72" WIDE WILL BE 5-1/2" DEEP DUE TO A VERTICAL

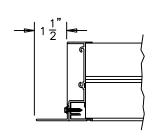
INTERIOR BLADE SUPPORT ANGLE.



EXTENDED SILL OPTIONAL







FLANGED FRAME **OPTIONAL** (JAMB SHOWN)



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american warming and ventilating

A MESTEK COMPANY

7301 INTERNATIONAL DRIVE Phone (419) 865-5000

HOLLAND, OHIO Fax (419) 865-1375

LE-81H STATIONARY LOUVER

DRN. BY

DWG. NO.

LE-81H DATE 1/18/10

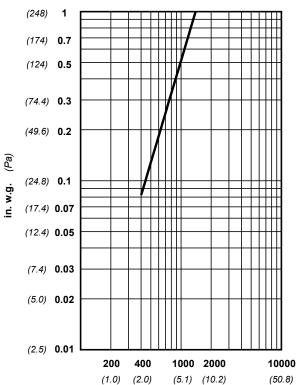
Water Penetration Pressure Drop

Free Area

: 0.01 oz (3.0 g) at 691 fpm (3.51 m/s) recommended free area velocity : 0.25 in wg (62.3 Pa.) at 691 fpm (3.51 m/s) and 3158 scfm (1.49 scm/s)

: 4.57 sq ft (0.42 sq m) = 28.6% 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



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LE-81H

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 691 fpm (3.51 m/s).

To determine minimum free area required for louver:

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

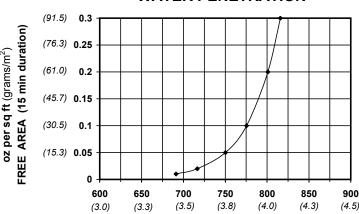
Step #2: Select the most desirable louver size, from the free area table, that meets the minimum free area requirement.

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

FREE AREA IN SQUARE FEET (sq meters)

	WIDTH								
неіснт	in.	12	24	36	48	60	72	84	96
	mm	305	610	914	1219	1524	1829	2134	2438
	12	0.09	0.21	0.34	0.46	0.58	0.70	0.82	0.94
	305	0.008	0.020	0.032	0.043	0.054	0.065	0.076	0.087
	24	0.37	0.86	1.34	1.83	2.31	2.80	3.28	3.76
	610	0.034	0.080	0.124	0.170	0.215	0.260	0.305	0.349
	36	0.65	1.50	2.35	3.20	4.04	4.89	5.74	6.59
	914	0.060	0.139	0.218	0.297	0.375	0.454	0.533	0.612
	48	0.93	2.14	3.36	4.57	5.78	6.99	8.20	9.41
	1219	0.086	0.199	0.312	0.425	0.537	0.649	0.762	0.874
	60	1.21	2.79	4.36	5.94	7.51	9.08	10.66	12.23
	1524	0.112	0.259	0.405	0.552	0.698	0.844	0.990	1.136
	72	1.49	3.43	5.37	7.31	9.24	11.18	13.12	15.05
	1829	0.138	0.319	0.499	0.679	0.858	1.039	1.219	1.398
	84	1.77	4.07	6.37	8.68	10.98	13.28	15.58	17.88
	2134	0.164	0.378	0.592	0.806	1.020	1.234	1.447	1.661
	96	2.05	4.72	7.38	10.04	12.71	15.37	18.04	20.70
	2438	0.190	0.439	0.686	0.933	1.181	1.428	1.676	1.923

WATER PENETRATION



VELOCITY THROUGH FREE AREA fpm (m/s)

Both maximum recommended free area velocity and beginning of water penetration are 691 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: 5000 CFM design flow

Step #1:
min. free area = Design CFM
Max. Recommended Velocity

= 5000 = 7.24 sq ft

Step #2: From the free area table above the approximate louver size is 72" x 48" = (6.99 sq ft)