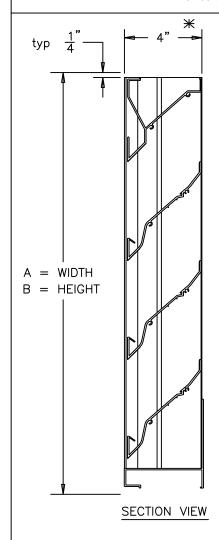
EXTRUDED ALUMINUM, 4" DEEP, FIXED DRAINABLE TYPE BLADE



MODEL LE-21 STANDARD SPECIFICATIONS

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

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

FINISH: MILL.

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

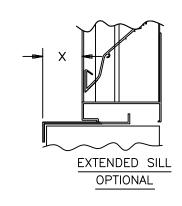
ON INTERIOR.

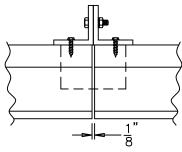
MAXIMUM PANEL SIZE: 96" X 96".

MINIMUM PANEL SIZE: 12" X 12".

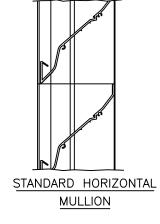
"A" (WIDTH) "B" (HEIGHT) ARE OPENING SIZES. LOUVERS ARE MADE 1/2" UNDERSIZE. DIMENSIONS:

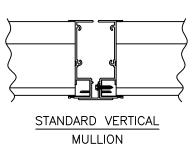
 \divideontimes PANELS OVER 60" WIDE WILL BE 5-1/2" DEEP DUE TO A VERTICAL INTERIOR BLADE SUPPORT ANGLE.

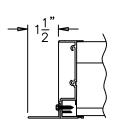




ARCHITECTURAL VERTICAL MULLION OPTIONAL







FLANGED FRAME **OPTIONAL** (JAMB SHOWN)



1/4/12

American Warming and Ventilating certifies that the model LE-21 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.

american warming and ventilating

A MESTEK COMPANY

7301 INTERNATIONAL DRIVE Phone (419) 865-5000

HOLLAND, OHIO Fax (419) 865-1375

REV.

STATIONARY LOUVER

DWG. NO. DRN. BY

LE-21

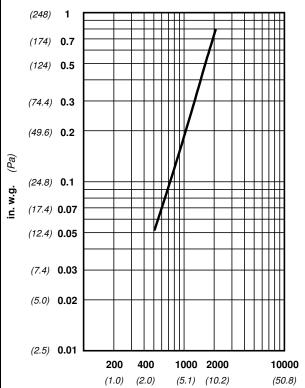
Water Penetration Pressure Drop

Free Area

: 0.01 oz (3.0 g) at 1025 fpm (5.21 m/s) recommended free area velocity : 0.20 in wg (49.8 Pa.) at 1025 fpm (5.21 m/s) and 8210 scfm (3.87 scm/s)

: 8.01 sq ft (0.744 sq m) = 50.1% 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
Figure 5.5. Data are based on intake performance.



American Warming and Ventilating certifies that the model LE-21 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 and water penetration ratings.

per sq ft (grams/m²)

LE-21

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 1025 fpm (5.21 m/s).

To determine minimum free area required for louver:

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

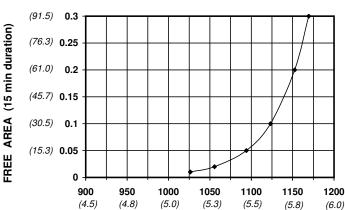
Step #2: Select the most desirable louver size, from the free area table, that meets the minimum free area requirement.

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	0.28	0.65	1.01	1.38	1.74	2.06	2.43	2.79
	305	0.026	0.060	0.094	0.128	0.162	0.191	0.226	0.259
	24	0.68	1.56	2.44	3.32	4.20	4.97	5.85	6.73
	610	0.063	0.145	0.227	0.308	0.390	0.462	0.543	0.625
	36	1.14	2.62	4.10	5.58	7.06	8.35	9.83	11.31
	914	0.106	0.243	0.381	0.518	0.656	0.776	0.913	1.051
	48	1.64	3.76	5.89	8.01	10.14	12.00	14.12	16.25
	1219	0.152	0.350	0.547	0.744	0.942	1.115	1.312	1.509
	60	2.02	4.64	7.26	9.88	12.50	14.79	17.41	20.03
	1524	0.188	0.431	0.674	0.918	1.161	1.374	1.617	1.861
	72	2.50	5.74	8.98	12.22	15.46	18.29	21.53	24.77
	1829	0.232	0.533	0.834	1.135	1.436	1.699	2.000	2.301
	84	2.89	6.65	10.40	14.16	17.91	21.20	24.96	28.71
	2134	0.268	0.618	0.966	1.316	1.664	1.970	2.319	2.667
	96	3.36	7.71	12.06	16.42	20.77	24.58	28.94	33.29
	2438	0.312	0.716	1.120	1.525	1.930	2.284	2.689	3.093

WATER PENETRATION



VELOCITY THROUGH FREE AREA fpm (m/s)

Both maximum recommended free area velocity and beginning of water penetration are 1025 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:
min. free area = Design CFM
Max. Recommended Velocity

= 15000 = 14.6 sq ft

Step #2: From the free area table above the approximate louver size is 48" x 84" = (14.16 sq ft)