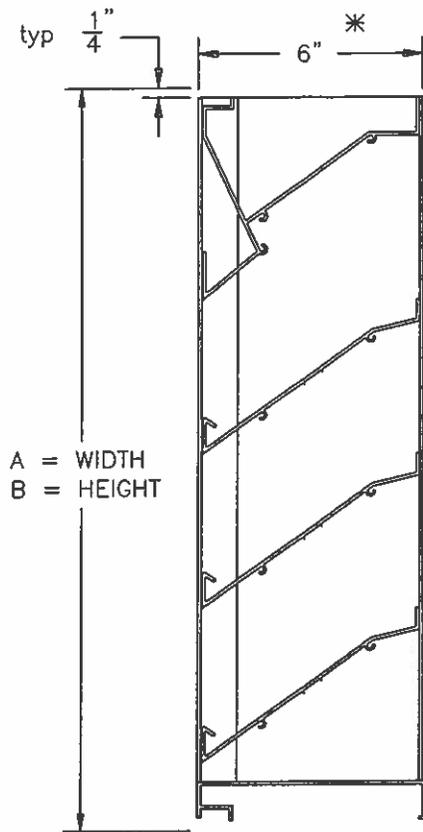


EXTRUDED ALUMINUM, 6" DEEP, FIXED DRAINABLE TYPE BLADE



A = WIDTH
B = HEIGHT

MODEL IL-31 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.

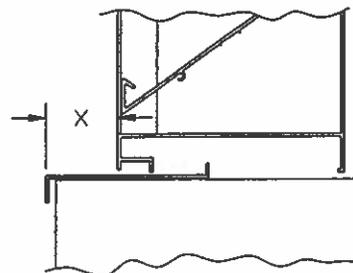
MAXIMUM PANEL SIZE: 96" x 96".

MINIMUM PANEL SIZE: 12" x 12".

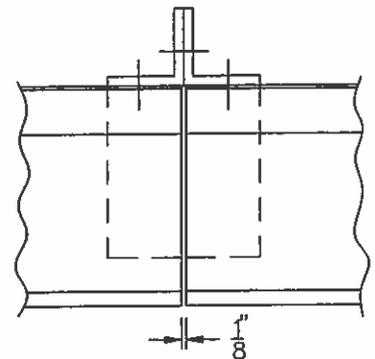
DIMENSIONS: "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING SIZES. LOUVERS ARE MADE 1/2" UNDERSIZE.

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

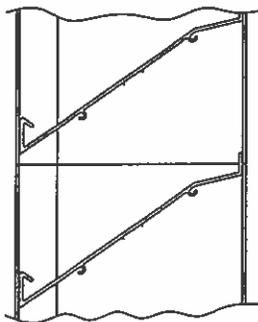
SECTION VIEW



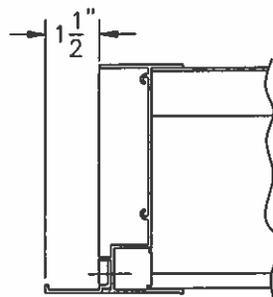
EXTENDED SILL
OPTIONAL



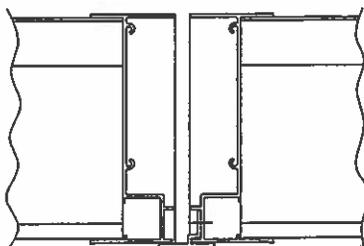
ARCHITECTURAL VERTICAL
MULLION OPTIONAL



STANDARD HORIZONTAL
MULLION



FLANGED FRAME
OPTIONAL
(JAMB SHOWN)



STANDARD VERTICAL
MULLION



L&D certifies that the model IL-31 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.

LD LOUVERS & DAMPERS
A MESTEK COMPANY

7435 INDUSTRIAL ROAD
Phone (859) 647-2299

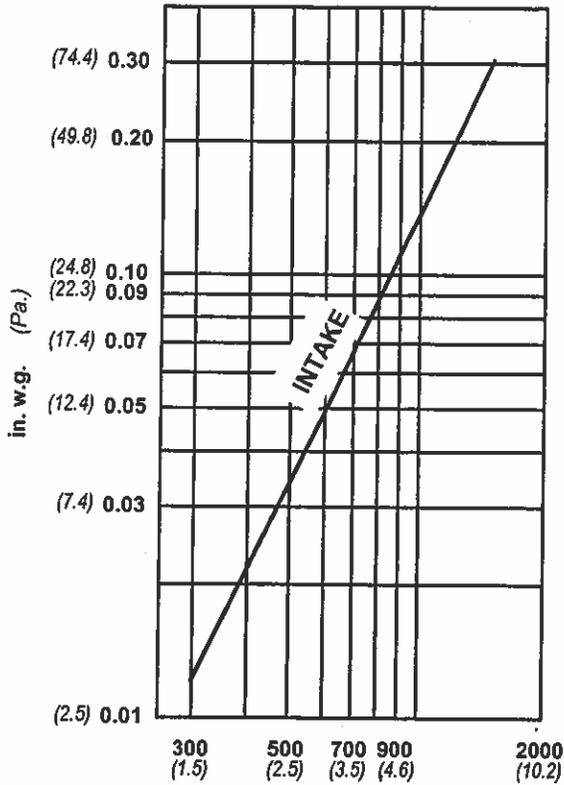
FLORENCE, KY
Fax (859) 647-7810

IL-31 STATIONARY LOUVER

DRN. BY	ESS	DWG. NO.	REV.
DATE	01-04-01	IL-31	

Water Penetration : .01 oz. (3.0 g.) at 1250 fpm (6.35 m/s) recommended free area velocity
Pressure Drop : .21 in. wg. (52.1 Pa.) at 1250 fpm (6.35 m/s) and 11550 SCFM (5.45 scm/s)
Free Area : 9.24 sq.ft. (0.858 sq. m.) = 58% for 48" x 48" (1.22 m x 1.22 m) test size

PRESSURE DROP



VELOCITY THROUGH FREE AREA FPM (meters/sec.)

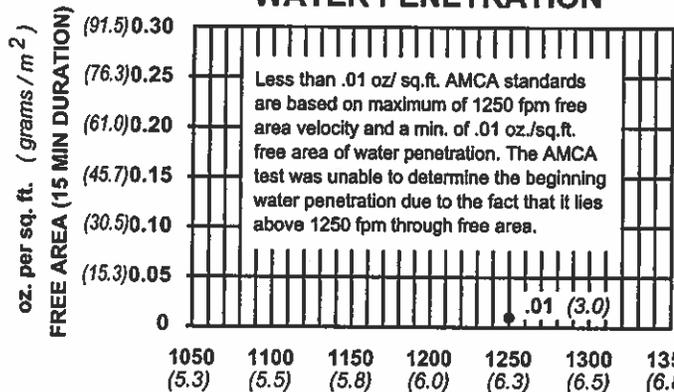
standard air - .075 lbs. per cu. ft.

Ratings do not include the effect of a bird screen

FREE AREA IN SQUARE FEET (sq. meters)

	12	24	36	48	60	72	84	96
in.	12	24	36	48	60	72	84	96
mm	304	609	914	1219	1524	1828	2133	2438
12	0.18	0.43	0.69	0.94	1.16	1.42	1.67	1.93
304	0.02	0.04	0.06	0.09	0.11	0.13	0.16	0.18
24	0.69	1.70	2.70	3.71	4.59	5.59	6.60	7.60
609	0.06	0.16	0.25	0.34	0.43	0.52	0.61	0.71
36	1.21	2.96	4.72	6.47	8.01	9.76	11.52	13.27
914	0.11	0.28	0.44	0.60	0.74	0.91	1.07	1.23
48	1.72	4.23	6.73	9.24	11.43	13.93	16.44	18.95
1219	0.16	0.39	0.63	0.86	1.06	1.29	1.53	1.76
60	2.24	5.49	8.75	12.00	14.85	18.11	21.36	24.62
1524	0.21	0.51	0.81	1.12	1.38	1.68	1.98	2.29
72	2.75	6.76	10.76	14.77	18.27	22.28	26.28	30.29
1828	0.26	0.63	1.00	1.37	1.70	2.07	2.44	2.81
84	3.27	8.02	12.78	17.53	21.70	26.45	31.21	35.96
2133	0.30	0.75	1.19	1.63	2.02	2.46	2.90	3.34
96	3.78	9.29	14.80	20.30	25.12	30.62	36.13	41.63
2438	0.35	0.86	1.37	1.89	2.33	2.84	3.36	3.87

WATER PENETRATION



VELOCITY THROUGH FREE AREA FPM (meters/sec.)

Both maximum recommended free area velocity and beginning of water penetration are 1250 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.



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IL-31

Below is an explanation of how to use the AMCA performance data for the recommended free area velocity of 1250 (6.35 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.

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 15,000 CFM design flow
Step #1:
 min. free area = $\frac{\text{Design CFM}}{\text{Max. Recommended Velocity}}$
 $= \frac{15,000}{1250} = 12.0 \text{ sq. ft.}$

Step #2: From the free area table above the approximate louver size is 48" x 60" = (12.0 sq. ft.)