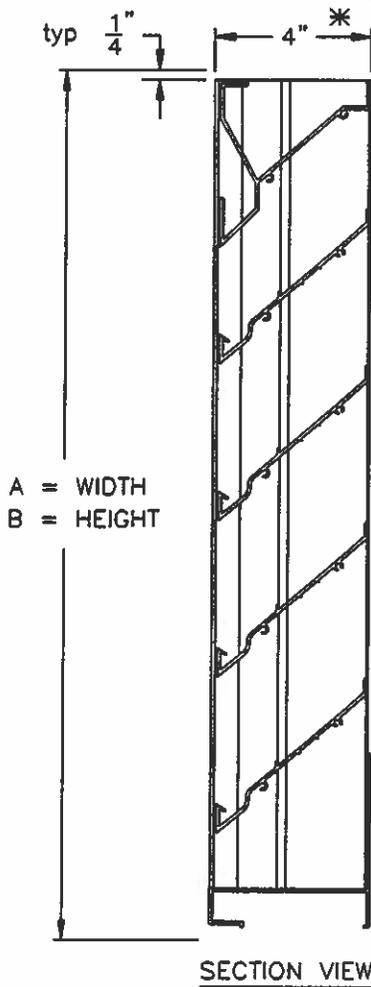


EXTRUDED ALUMINUM, 4" DEEP, FIXED DRAINABLE TYPE BLADE



**MODEL IL-24
STANDARD SPECIFICATIONS**

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

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

FINISH: MILL.

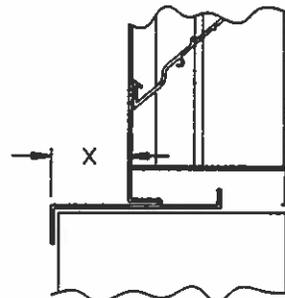
SCREEN: 1/2" REMOVABLE EXPANDED ALUMINUM BIRD SCREEN, LOCATED ON INTERIOR.

MAXIMUM PANEL SIZE: 96" X 96".

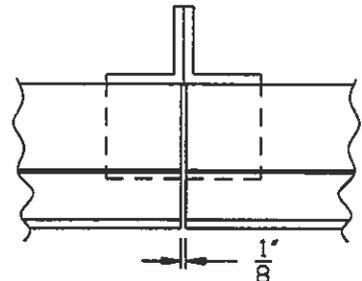
MINIMUM PANEL SIZE: 12" X 12".

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

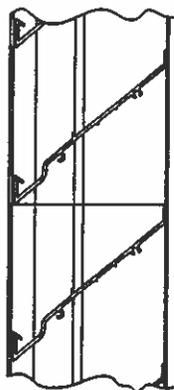
* PANELS OVER 60" WIDE WILL BE 5-1/2" DEEP DUE TO A VERTICAL INTERIOR BLADE SUPPORT ANGLE.



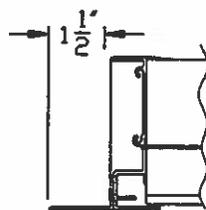
EXTENDED SILL
OPTIONAL



ARCHITECTURAL VERTICAL
MULLION OPTIONAL



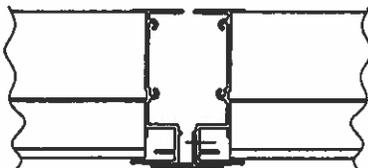
STANDARD HORIZONTAL
MULLION



FLANGED FRAME
OPTIONAL
(JAMB SHOWN)



L&D certifies that the model IL-24 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

L&D LOUVERS & DAMPERS
A MESTEK COMPANY

7435 INDUSTRIAL ROAD
Phone (859) 647-2299

FLORENCE, KY
Fax (859) 647-7810

IL-24 STATIONARY LOUVER

DRN. BY ESS
DATE 12-01-02

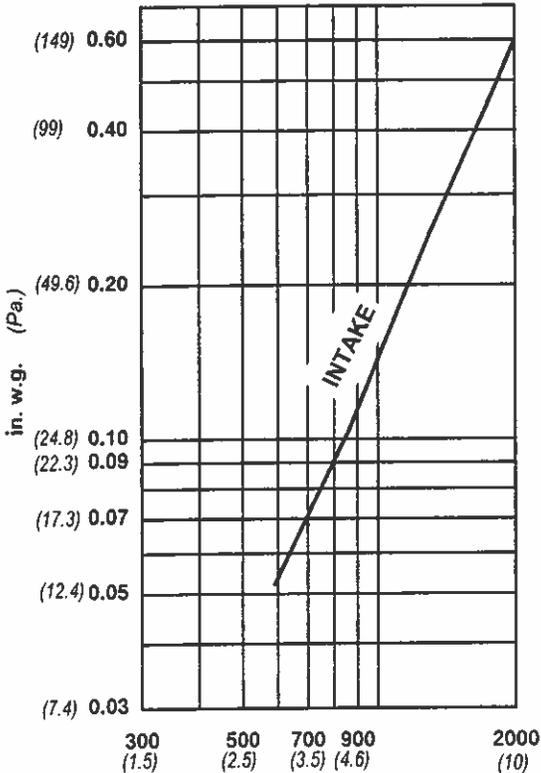
DWG. NO.

IL-24

REV.

Water Penetration : .01 oz. (3.0 g.) at 1026 fpm (5.21 m/s) recommended free area velocity
Pressure Drop : .155 in. wg. (38.4 Pa.) at 1026 fpm (5.21 m/s) and 8320 SCFM (3.92 scm/s)
Free Area : 8.11 sq.ft. (0.753 sq. m.) = 50.6% for 48" x 48" (1.22 m x 1.22 m) test size

PRESSURE DROP



VELOCITY THROUGH FREE AREA FPM (meters / sec)

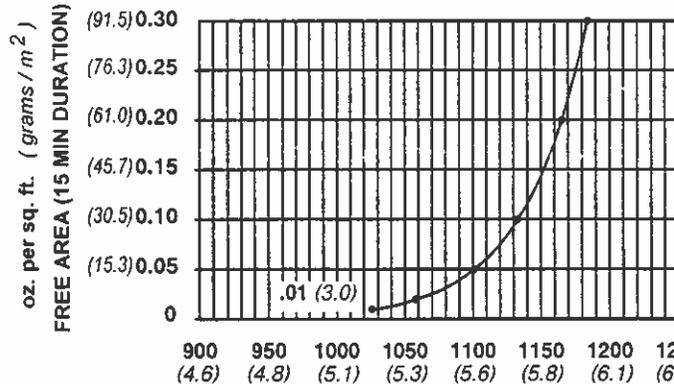
standard air - .075 lbs. per cu. ft.

Ratings do not include the effect of a bird screen

FREE AREA IN SQUARE FEET (sq. meters)

		WIDTH							
		in mm	12 304	24 609	36 914	48 1219	60 1524	72 1828	84 2133
HEIGHT	12 304	0.17 0.02	0.39 0.04	0.60 0.06	0.82 0.08	1.04 0.10	1.23 0.11	1.45 0.13	1.66 0.15
	24 609	0.66 0.06	1.53 0.14	2.39 0.22	3.25 0.30	4.11 0.38	4.87 0.45	5.73 0.53	6.59 0.61
	36 914	1.16 0.11	2.67 0.25	4.18 0.39	5.68 0.53	7.19 0.67	8.51 0.79	10.02 0.93	11.52 1.07
	48 1219	1.66 0.15	3.81 0.35	5.96 0.55	8.11 0.75	10.27 0.95	12.15 1.13	14.30 1.33	16.45 1.53
	60 1524	2.16 0.20	4.95 0.46	7.75 0.72	10.55 0.98	13.34 1.24	15.79 1.47	18.59 1.73	21.38 1.99
	72 1828	2.65 0.25	6.09 0.57	9.54 0.89	12.98 1.21	16.42 1.53	19.43 1.81	22.87 2.12	26.31 2.44
	84 2133	3.15 0.29	7.24 0.67	11.32 1.05	15.41 1.43	19.49 1.81	23.07 2.14	27.16 2.52	31.24 2.90
	96 2438	3.65 0.34	8.38 0.78	13.11 1.22	17.84 1.66	22.57 2.10	26.71 2.48	31.44 2.92	36.17 3.36

WATER PENETRATION



VELOCITY THROUGH FREE AREA FPM (meters / sec.)

Both maximum recommended free area velocity and beginning of water penetration are 1026 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 the new AMCA Standard 511.



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IL-24

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 1026 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.

Example: Given 15,000 CFM design flow
Step #1:
 min. free area = $\frac{\text{Design CFM}}{\text{Max. Recommended Velocity}}$
 $= \frac{15,000}{1026} = 14.62 \text{ sq. ft.}$

Step #2: From the free area table above the approximate louver size is 72" x 60" = (15.66 sq. ft.)