EXTRUDED ALUMINUM, 4" DEEP, FIXED DRAINABLE TYPE BLADE

MODEL A424
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 48" WIDE WILL BE 5-1/2" 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

ABI certifies that the model A424 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.

abi
air balance
A MESTEK COMPANY
7435 INDUSTRIAL RD. FLORENCE, KY
Phone (419) 865-5000 Fax (419) 865-1375

A424 STATIONARY LOUVER

ORN. BY JVC DWG. NO. REV.
DATE 4/12/04 A424
Water Penetration : 0.01 oz (3.0 g) at 1026 fpm (5.21 m/s) recommended free area velocity
Pressure Drop : 0.155 in wg (38.4 Pa.) at 1026 fpm (5.21 m/s) and 8321 scfm (3.93 scm/s)
Free Area : 8.11 sq ft (0.753 sq m) = 50.7% for 48” x 48” (1.22m x 1.22m) test size

INTAKE PRESSURE DROP

FREE AREA IN SQUARE FEET (sq meters)

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VELOCITY THROUGH FREE AREA fpm (m/s)
standard air -0.75 lbs per cu ft
Ratings do not include the effect of a wire bird screen

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A424

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.

WATER PENETRATION

VELOCITY THROUGH FREE AREA fpm (m/s)
Both maximum recommended free area velocity and beginning of
water penetration are 1026 fpm at standard air -0.75 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
width 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
             = 15000
             = 14.62 sq ft
Max. Recommended Velocity
             = 1026
Step #2: From the free area table above the approximate
louver size is 48” x 84” = (15.41 sq ft)

Form No. SD-A424 December 2000