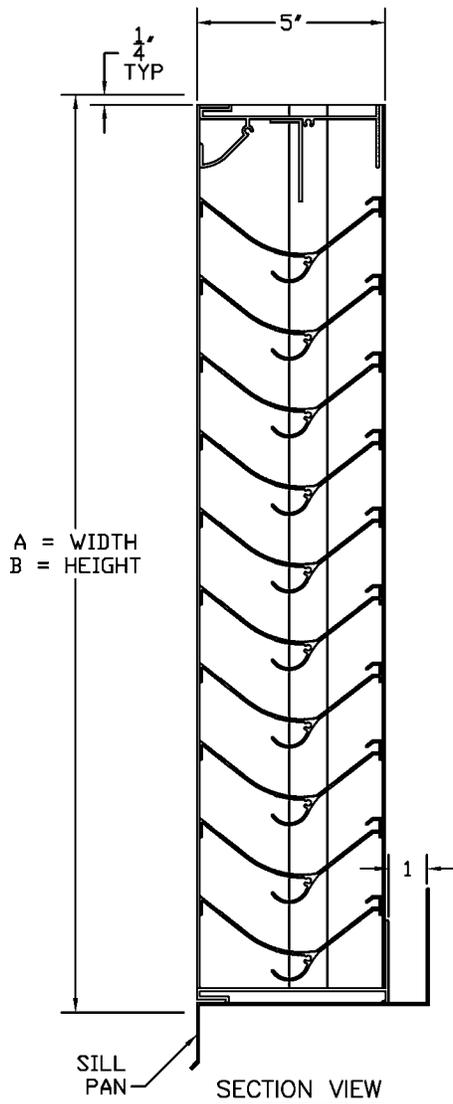
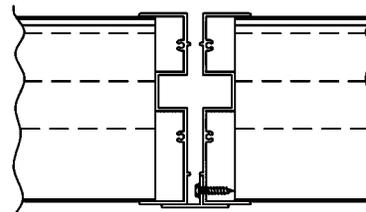


EXTRUDED ALUMINUM, 5" DEEP, HORIZONTAL FIXED TYPE BLADE FOR WIND DRIVEN RAIN

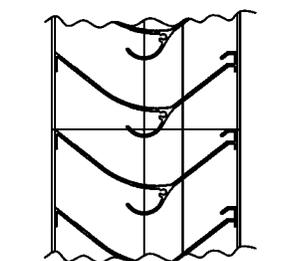


MODEL A590H
STANDARD SPECIFICATIONS

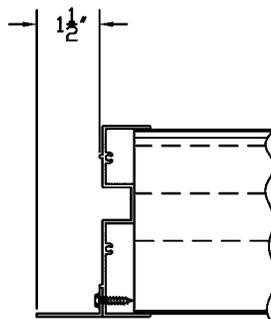
- FRAME: 5" DEEP CHANNEL, .081" THICK 6063-T5 EXTRUDED ALUMINUM ALLOY.
- BLADES: .060" THICK 6063-T5 EXTRUDED ALUMINUM ALLOY.
- FINISH: MILL.
- SILL PAN: .060 THICK FORMED ALUMINUM.
- SCREEN: 1/2" REMOVABLE EXPANDED ALUMINUM BIRD SCREEN, LOCATED ON INTERIOR.
- MAXIMUM PANEL SIZE: 96" X 96".
- MINIMUM PANEL SIZE: 12" X 12".
- DIMENSIONS: "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING SIZES. LOUVERS ARE MADE 1/2" UNDERSIZE.



STANDARD VERTICAL
MULLION



STANDARD HORIZONTAL
MULLION



FLANGED FRAME
OPTIONAL
(JAMB SHOWN)



ABI certifies that the model A590H 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, water penetration ratings, and wind driven rain ratings.

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

A590H STATIONARY LOUVER

DRN. BY AMD	DWG. NO. A590H	REV.
DATE 12/01/02		

Water Penetration : 0.01 oz (3.0 g) at 1250 fpm (6.35 m/s) recommended free area velocity
Pressure Drop : 0.31 in wg (76.8 Pa.) at 1250 fpm (6.35 m/s) and 10238 scfm (4.83 scm/s)
Free Area : 8.19 sq ft (0.761 sq m) = 51.2% for 48" x 48" (1.22m x 1.22m) test size

A590 WIND DRIVEN RAIN PERFORMANCE

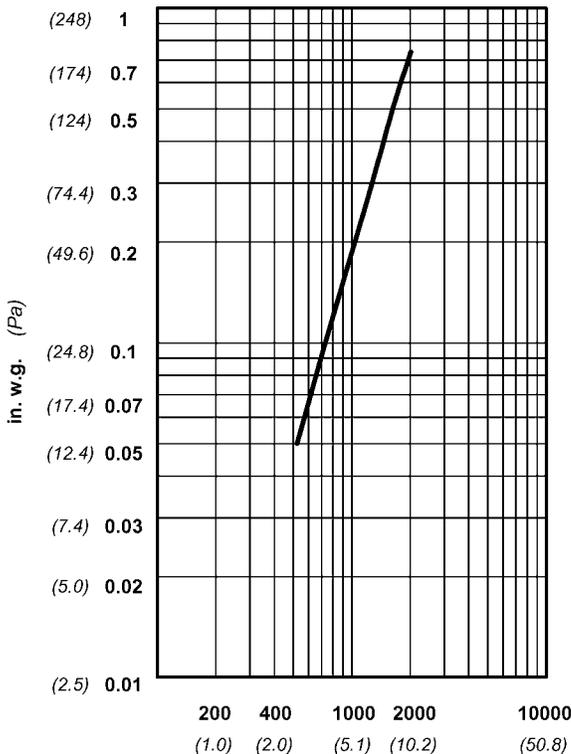
Wind Velocity 29 mph (46.7 kph)

Rainfall 3" per hour (76 mm/h)

Test Size 1m x 1m core area

Water Penetration Class A	Effectiveness Ratio 99.5%	Coefficient of Discharge Class 2	Core Velocity 582 fpm (3 m/s)	Ventilation Airflow 6267 cfm (3 cm/s)	Free Area Velocity 1127 fpm (5.7 m/s)
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INTAKE PRESSURE DROP



VELOCITY THROUGH FREE AREA fpm (m/s)

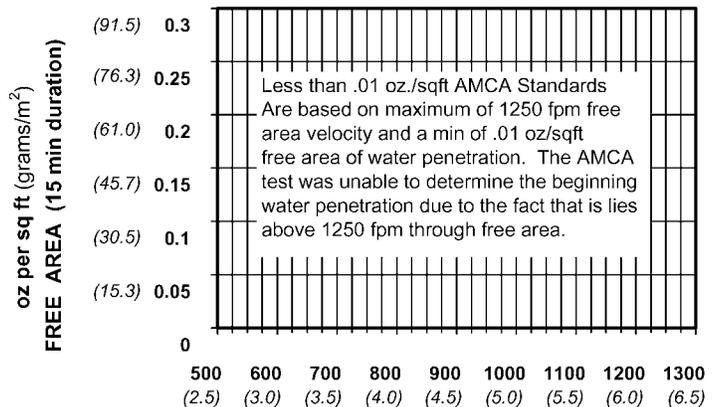
standard air - .075 lbs per cu ft

Ratings do not include the effect of a wire bird screen
 Test based on a 48" x 48" test size per AMCA Standard 511

FREE AREA IN SQUARE FEET (sq meters)

HEIGHT	WIDTH								
	in. mm	12	24	36	48	60	72	84	96
12	305	0.29	0.68	1.07	1.46	1.84	2.23	2.62	3.01
24	610	0.027	0.063	0.099	0.136	0.171	0.207	0.243	0.280
36	914	0.068	0.160	0.252	0.344	0.436	0.528	0.620	0.712
48	1219	0.110	0.257	0.405	0.553	0.700	0.848	0.996	1.144
60	1524	0.151	0.354	0.557	0.761	0.964	1.168	1.371	1.575
72	1829	0.192	0.452	0.711	0.970	1.229	1.488	1.748	2.007
84	2134	0.233	0.548	0.863	1.178	1.493	1.808	2.123	2.439
96	2438	0.274	0.646	1.016	1.387	1.758	2.128	2.499	2.871
10238	10238	3.40	7.99	12.58	17.17	21.76	26.36	30.95	35.54
		0.316	0.742	1.169	1.595	2.022	2.449	2.875	3.302

WATER PENETRATION



VELOCITY THROUGH FREE AREA fpm (m/s)

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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A590