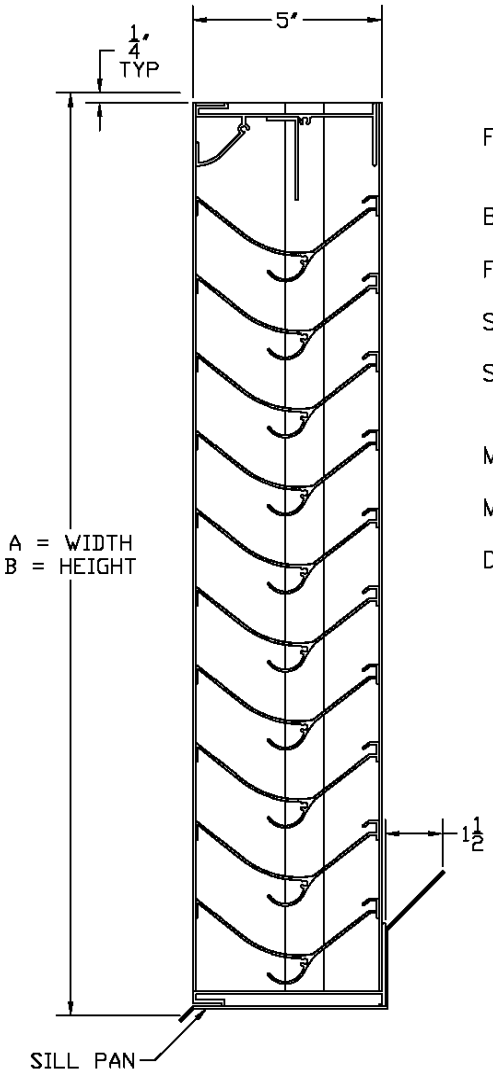
EXTRUDED ALUMINUM, 5" DEEP, HORIZONTAL FIXED TYPE BLADE FOR WIND DRIVEN RAIN



SECTION VIEW

MODEL LE–59
STANDARD SPECIFICATIONS

FRAME: 5" DEEP CHANNEL, .081" THICK 6063–T5 EXTRUDED ALUMINUM ALLOY.

BLADES: .060" THICK 6063–T5 EXTRUDED ALUMINUM ALLOY.

FINISH: MILL.

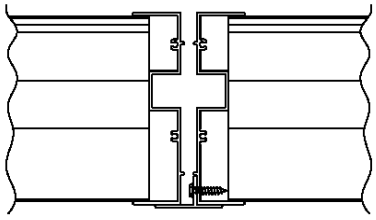
SILL PAN: .060 THICK FORMED ALUMINUM.

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

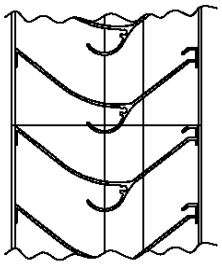
MAXIMUM PANEL SIZE: 96" X 96".

MINIMUM PANEL SIZE: 12" X 12".

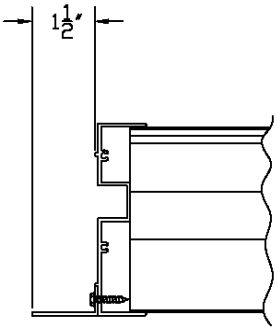
DIMENSIONS: "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING SIZES. LOUVERS ARE MADE 1/2" UNDERSIZE.



STANDARD VERTICAL MULLION



STANDARD HORIZONTAL MULLION



FLANGED FRAME OPTIONAL (JAMB SHOWN)

amca CERTIFIED RATINGS WATER PENETRATION AIR PERFORMANCE WIND DRIVEN RAIN
AIR MOVEMENT AND CONTROL ASSOCIATION INC

AWV certifies that the model LE–59 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.

awv® american warming and ventilating
A MESTEK COMPANY
7301 INTERNATIONAL DRIVE HOLLAND, OHIO
Phone (419) 865–5000 Fax (419) 865–1375

LE–59 STATIONARY LOUVER

DRN. BY	DWG. NO.	REV.
JVC	LE–59	
DATE 3/21/07		

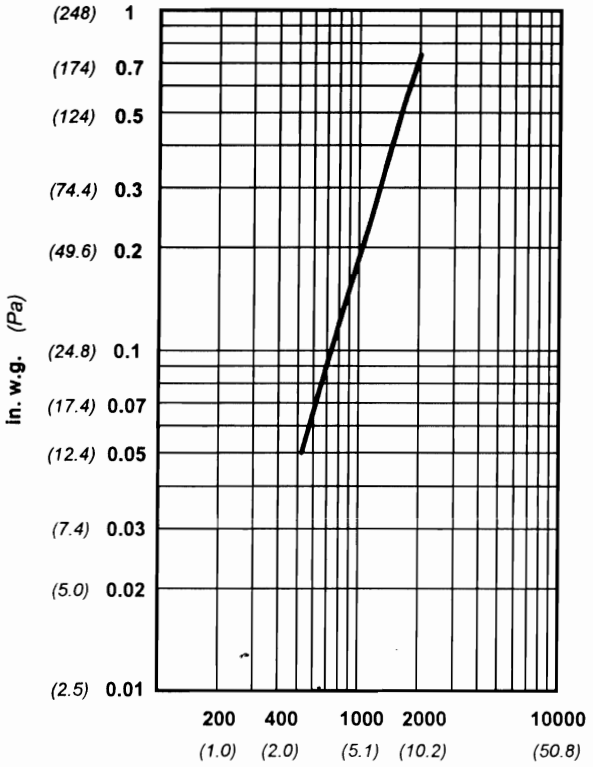
Water Penetration	**: 0.01 oz (3.0 g) at 1250 fpm (6.35 m/s) recommended free area velocity**
Pressure Drop	**: 0.31 in wg (76.8 Pa.) at 1250 fpm (6.35 m/s) and 10238 scfm (4.83 scm/s)**
Free Area	**: 8.19 sq ft (0.761 sq m) = 51.2% for 48" x 48" (1.22m x 1.22m) test size**

LE-59 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	Effectiveness Ratio	Coefficient of Discharge	Core Velocity	Ventilation Airflow	Free Area Velocity
Class A	99.5%	Class 2	582 fpm (3 m/s)	6267 cfm (3 cm/s)	1127 fpm (5.7 m/s)

INTAKE PRESSURE DROP

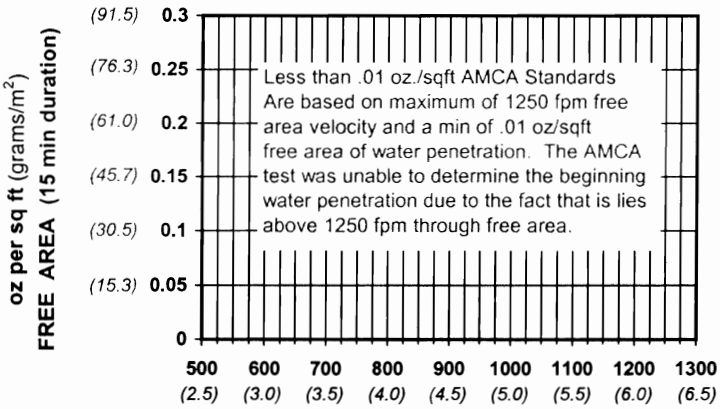


VELOCITY THROUGH FREE AREA fpm (m/s)
standard air- .075 lbs per cu ft
Ratings do not include the effect of a wire bird screen
Test based on a 48" x 48" test size per AMCA Standard 511

FREE AREA IN SQUARE FEET *(sq meters)*

HEIGHT \ WIDTH	12	24	36	48	60	72	84	96
in.	**12**	**24**	**36**	**48**	**60**	**72**	**84**	**96**
mm	*305*	*610*	*914*	*1219*	*1524*	*1829*	*2134*	*2438*
12 / *305*	**0.29** / *0.027*	**0.68** / *0.063*	**1.07** / *0.099*	**1.46** / *0.136*	**1.84** / *0.171*	**2.23** / *0.207*	**2.62** / *0.243*	**3.01** / *0.280*
24 / *610*	**0.73** / *0.068*	**1.72** / *0.160*	**2.71** / *0.252*	**3.70** / *0.344*	**4.69** / *0.436*	**5.68** / *0.528*	**6.67** / *0.620*	**7.66** / *0.712*
36 / *914*	**1.18** / *0.110*	**2.77** / *0.257*	**4.36** / *0.405*	**5.95** / *0.553*	**7.54** / *0.700*	**9.13** / *0.848*	**10.72** / *0.996*	**12.31** / *1.144*
48 / *1219*	**1.62** / *0.151*	**3.81** / *0.354*	**6.00** / *0.557*	**8.19** / *0.761*	**10.38** / *0.964*	**12.57** / *1.168*	**14.76** / *1.371*	**16.95** / *1.575*
60 / *1524*	**2.07** / *0.192*	**4.86** / *0.452*	**7.65** / *0.711*	**10.44** / *0.970*	**13.23** / *1.229*	**16.02** / *1.488*	**18.81** / *1.748*	**21.60** / *2.007*
72 / *1829*	**2.51** / *0.233*	**5.90** / *0.548*	**9.29** / *0.863*	**12.68** / *1.178*	**16.07** / *1.493*	**19.46** / *1.808*	**22.85** / *2.123*	**26.25** / *2.439*
84 / *2134*	**2.95** / *0.274*	**6.95** / *0.646*	**10.94** / *1.016*	**14.93** / *1.387*	**18.92** / *1.758*	**22.91** / *2.128*	**26.90** / *2.499*	**30.90** / *2.871*
96 / *2438*	**3.40** / *0.316*	**7.99** / *0.742*	**12.58** / *1.169*	**17.17** / *1.595*	**21.76** / *2.022*	**26.36** / *2.449*	**30.95** / *2.875*	**35.54** / *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.

amca CERTIFIED RATINGS
WATER PENETRATION
AIR PERFORMANCE
WIND DRIVEN RAIN
AIR MOVEMENT AND CONTROL ASSOCIATION INC.

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LE-59