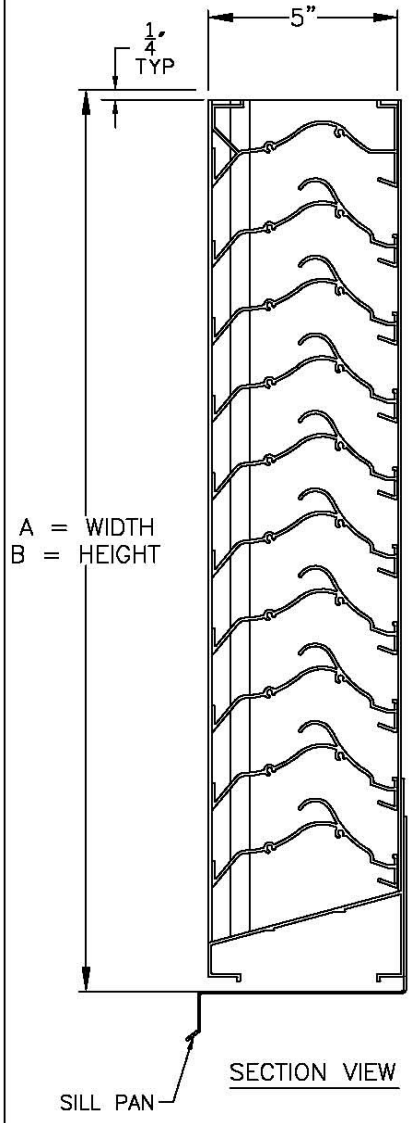
EXTRUDED ALUMINUM, 5" DEEP, HORIZONTAL FIXED TYPE BLADE FOR WIND DRIVEN RAIN



SECTION VIEW

MODEL LE–53
STANDARD SPECIFICATIONS

FRAME: 5" DEEP CHANNEL, .081" THICK 6063–T6 EXTRUDED ALUMINUM ALLOY.

BLADES: .060" THICK 6063–T6 EXTRUDED ALUMINUM ALLOY.

FINISH: MILL.

SILL PAN: .060 THICK FORMED ALUMINUM.

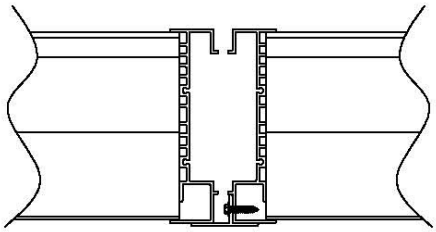
SCREEN: 1/2" REMOVABLE EXPANDED ALUMINUM BIRD SCREEN, LOCATED ON INTERIOR.

MAXIMUM PANEL SIZE: 96" X 96".

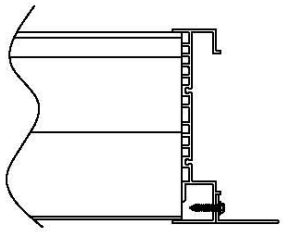
MINIMUM PANEL SIZE: 12" X 12".

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

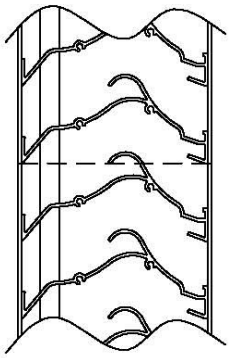
✳ PANELS OVER 60" WIDE WILL BE 6–1/2" DEEP DUE TO A VERTICAL INTERIOR BLADE SUPPORT ANGLE.



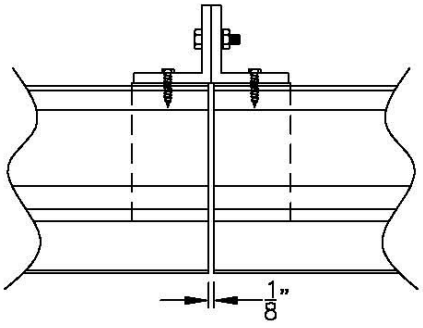
STANDARD VERTICAL MULLION



OPTIONAL FLANGED FRAME
(JAMB SHOWN)



STANDARD HORIZONTAL MULLION



ARCHITECTURAL VERTICAL MULLION OPTIONAL

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

American Warming and Ventilating LE–53 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.

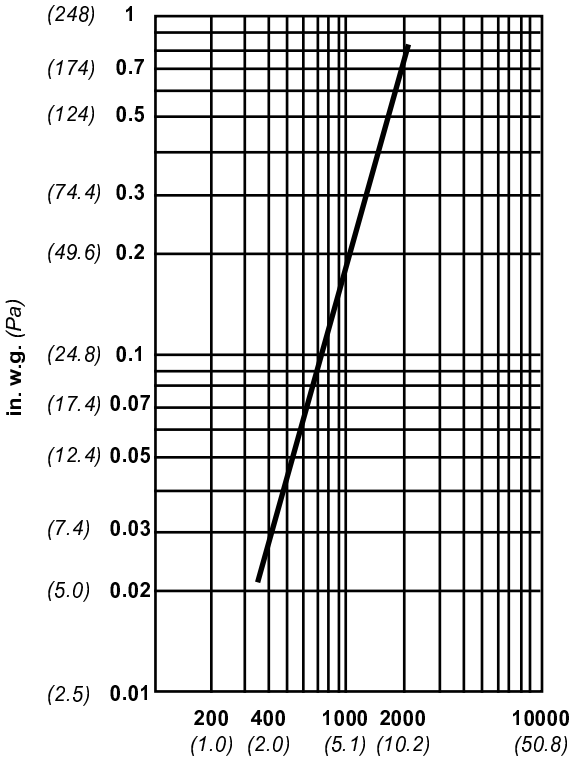
awv® american warming and ventilating
A MESTEK COMPANY
7301 INTERNATIONAL DRIVE HOLLAND, OHIO
Phone (419) 865–5000 Fax (419) 865–1375

LE–53 STATIONARY LOUVER

DRN. BY JEP	DWG. NO.	REV.
DATE 1/21/10	LE–53	

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 8850 scfm (4.18 scm/s)
Free Area : 7.08 sq ft (0.658 sq m) = 44.3% for 48" x 48" (1.22m x 1.22m) test size

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 birdscreen
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*	0.21 / *0.020*	0.49 / *0.046*	0.76 / *0.071*	1.04 / *0.097*	1.31 / *0.122*	1.58 / *0.147*	1.86 / *0.173*	2.13 / *0.198*
24 / *610*	0.63 / *0.059*	1.43 / *0.133*	2.24 / *0.208*	3.04 / *0.282*	3.85 / *0.358*	4.65 / *0.432*	5.46 / *0.507*	6.26 / *0.582*
36 / *914*	1.04 / *0.097*	2.38 / *0.221*	3.72 / *0.346*	5.05 / *0.469*	6.39 / *0.594*	7.73 / *0.718*	9.06 / *0.842*	10.40 / *0.966*
48 / *1219*	1.46 / *0.136*	3.33 / *0.309*	5.19 / *0.482*	7.08 / *0.658*	8.93 / *0.830*	10.80 / *1.003*	12.67 / *1.177*	14.53 / *1.350*
60 / *1524*	1.88 / *0.175*	4.27 / *0.397*	6.67 / *0.620*	9.07 / *0.843*	11.47 / *1.066*	13.87 / *1.289*	16.27 / *1.512*	18.67 / *1.734*
72 / *1829*	2.29 / *0.213*	5.22 / *0.485*	8.15 / *0.757*	11.08 / *1.029*	14.01 / *1.302*	16.94 / *1.574*	19.87 / *1.845*	22.80 / *2.118*
84 / *2134*	2.71 / *0.252*	6.17 / *0.573*	9.63 / *0.895*	13.09 / *1.216*	16.55 / *1.538*	20.01 / *1.859*	23.47 / *2.180*	26.93 / *2.502*
96 / *2438*	3.12 / *0.290*	7.11 / *0.661*	11.11 / *1.032*	15.10 / *1.403*	19.09 / *1.774*	23.08 / *2.144*	27.08 / *2.516*	31.07 / *2.886*

Wind-Driven Rain Penetration Classes:		Discharge Loss Coefficient Classes:	
Class	**Effectiveness**	**Class**	**Coefficient**
A	100% to 99%	1	0.4 & above
B	98.9% to 95%	2	0.3 to 0.399
C	94.9% to 80%	3	0.2 to 0.299
D	Below 80%	4	0.199 & below

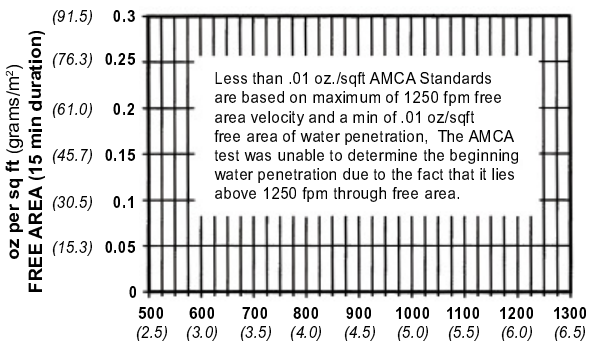
Wind Driven Rain Performance 29 mph (46.7 kph) with 3 in/h (76 mm/h)

Water Penetration	Effectiveness Ratio	Coefficient of Discharge	Core Velocity	Ventilation Airflow	Free Area Velocity
Class A	99.0%	Class 3	583 fpm (3 m/s)	6276 cfm (3 cm/s)	1133 fpm (5.8 m/s)

Wind Driven Rain Performance 50 mph (80.5 kph) with 8 in/h (203 mm/h)

Water Penetration	Effectiveness Ratio	Coefficient of Discharge	Core Velocity	Ventilation Airflow	Free Area Velocity
Class B	95.7%	Class 3	673 fpm (3.5 m/s)	7243 cfm (3 cm/s)	1307 fpm (6.6m/s)

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
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LE-53