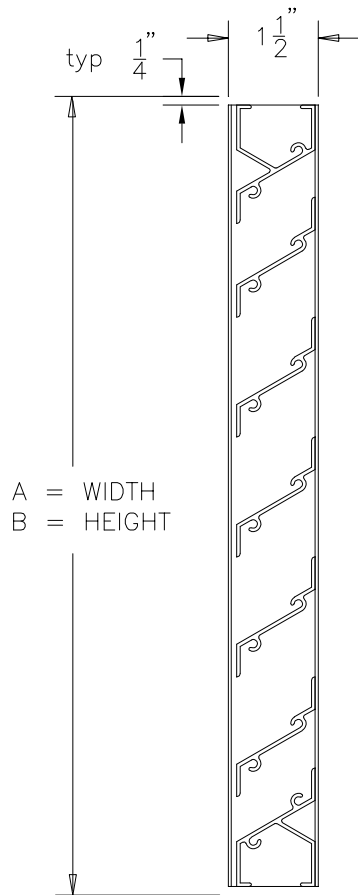
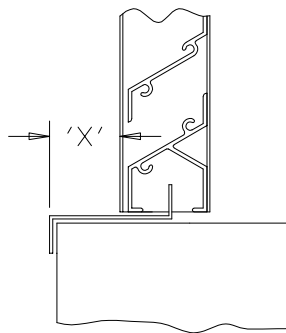
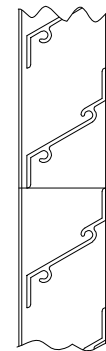
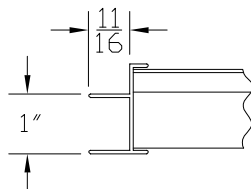


# EXTRUDED ALUMINUM, 1-1/2" DEEP, FIXED J/K TYPE BLADE

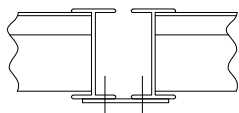
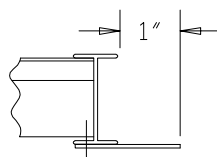


SECTION VIEW

- MODEL LE-15  
STANDARD SPECIFICATION
- FRAME: 1-1/2" DEEP CHANNEL, .063 THICK 6063-T5 ALUMINUM ALLOY
- BLADES: .063" THICK 6063-T5 ALUMINUM ALLOY.
- SCREEN: 1/2" REMOVABLE EXPANDED ALUMINUM BIRD SCREEN, LOCATED INTERIOR.
- FINISH: MILL.
- MAX. PANEL SIZE: 96" x 96"
- MIN. PANEL SIZE: 12" x 12"
- DIMENSIONS: "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING SIZES.  
LOUVERS ARE MADE 1/2" UNDERSIZED

EXTENDED SILL  
OPTIONALSTANDARD HORIZONTAL  
MULLIONWINDOW GLAZING FRAME  
OPTIONAL

AWV certifies that the model LE-15 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  
MULLIONFLANGED FRAME  
OPTIONAL  
(JAMB SHOWN)

**awv** american warming  
and ventilating

A MESTEK COMPANY

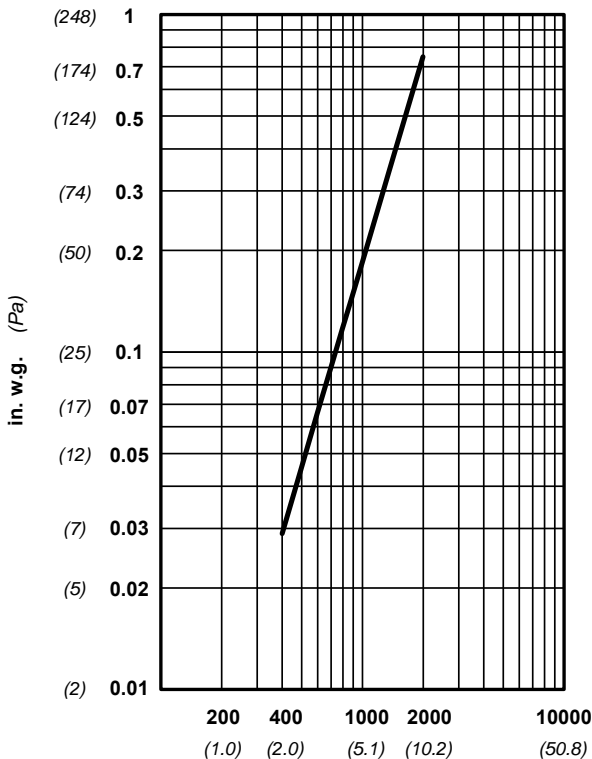
7301 INTERNATIONAL DRIVE HOLLAND, OHIO  
Phone (419) 865-5000 Fax (419) 865-1375

## LE-15 STATIONARY LOUVER

DRN. BY	JMC	DWG. NO.	REV.
DATE	2/14/23	LE-15	

**Water Penetration** : 0.01 oz (3.0 g) at 404 fpm (2.02 m/s) recommended free area velocity  
**Pressure Drop** : 0.02 in wg (4.98 Pa.) at 404 fpm (2.02 m/s) and 3141 scfm (1.48 scm/s)  
**Free Area** : 7.78 sq ft (0.72 sq m) = 48.6% for 48" x 48" (1.22m x 1.22m) test size

### INTAKE PRESSURE DROP



### VELOCITY THROUGH FREE AREA fpm (m/s)

Airflow at standard air density - .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  
AMCA Figure 5.5 Test Setup.



American Warming and Ventilating certifies that the model LE-15 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 and water penetration ratings.

### LE-15

Below is an explanation of how to use the AMCA Performance data for the recommended free area velocity of 1025 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.

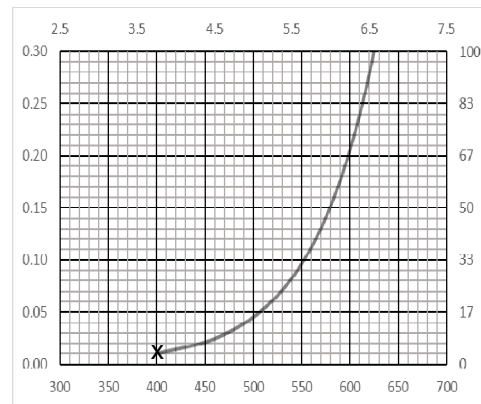
**Step #3:** Compare specified performance to the certified water penetration and pressure drop ratings.

### FREE AREA IN SQUARE FEET (sq meters)

HEIGHT	WIDTH								
	in.	12	24	36	48	60	72	84	96
	mm	305	610	914	1219	1524	1829	2134	2438
12	0.36	0.78	1.20	1.51	1.93	2.35	2.66	3.08	
305	0.033	0.072	0.111	0.140	0.179	0.218	0.247	0.286	
24	0.81	1.75	2.70	3.40	4.35	5.29	6.00	6.95	
610	0.075	0.163	0.250	0.316	0.404	0.492	0.558	0.645	
36	1.26	2.73	4.20	5.30	6.77	8.24	9.34	10.81	
914	0.117	0.253	0.390	0.492	0.629	0.765	0.868	1.004	
48	1.70	3.70	5.70	7.78	9.19	11.18	12.68	14.68	
1219	0.158	0.344	0.529	0.720	0.853	1.039	1.178	1.363	
60	2.15	4.67	7.20	9.09	11.61	14.13	16.02	18.54	
1524	0.200	0.434	0.668	0.844	1.078	1.313	1.488	1.722	
72	2.60	5.65	8.70	10.98	14.03	17.07	19.36	22.41	
1829	0.242	0.525	0.808	1.020	1.303	1.586	1.799	2.081	
84	3.05	6.62	10.20	12.88	16.45	20.02	22.70	26.27	
2134	0.283	0.615	0.947	1.196	1.528	1.860	2.109	2.441	
96	3.50	7.60	11.70	14.77	18.87	22.96	26.04	30.14	
2438	0.325	0.706	1.087	1.372	1.753	2.133	2.419	2.800	

### WATER PENETRATION

oz per sq ft (15 min duration)  
FREE AREA (15 min duration)



### VELOCITY THROUGH FREE AREA fpm (m/s)

Both maximum recommended free area velocity and beginning of water penetration are 404 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.

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.**

Example: Given: 4500 CFM design flow

**Step #1:**

$$\text{min. free area} = \frac{\text{Design CFM}}{\text{Max. Recommended Velocity}} = \frac{4500}{404} = 11.14 \text{ sq ft}$$

**Step #2:** From the free area table above the approximate louver size is 60" x 60" = (11.61 sq ft)