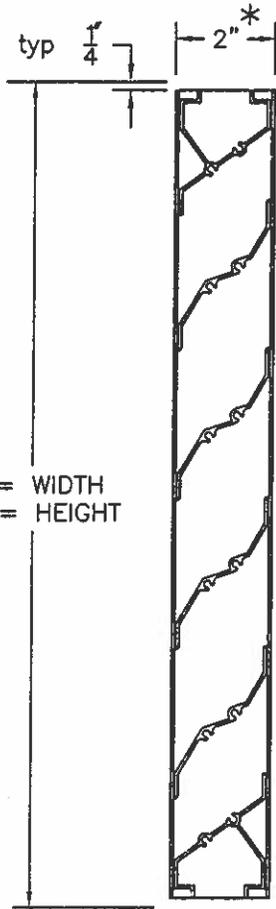


# EXTRUDED ALUMINUM, 2" DEEP, FIXED J/K TYPE BLADE



A = WIDTH  
B = HEIGHT

SECTION VIEW

## MODEL TE-57 STANDARD SPECIFICATION

FRAME: 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.

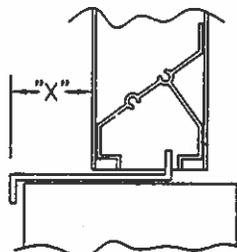
FINISH: MILL.

MAX. PANEL SIZE: 96" x 96"

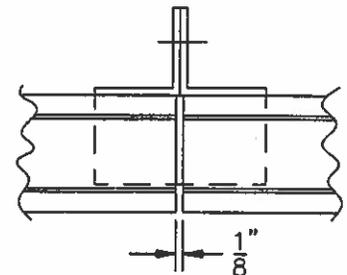
MIN. PANEL SIZE: 12" x 12"

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

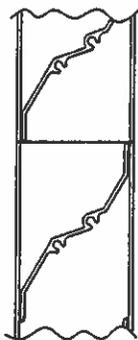
\* PANELS OVER 48" WIDE WILL BE 3-1/2" DEEP DUE TO A VERTICAL  
INTERIOR BLADE SUPPORT ANGLE.



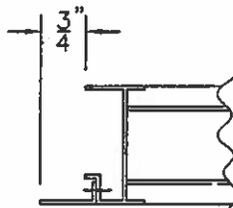
EXTENDED SILL  
OPTIONAL



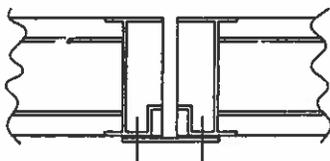
ARCHITECTURAL  
OPTIONAL



STANDARD HORIZONTAL  
MULLION



FLANGED FRAME  
OPTIONAL  
(JAMB SHOWN)



STANDARD VERTICAL  
MULLION



L&D certifies that the model TE-57 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.

## **L** LOUVERS & DAMPERS A MESTEK COMPANY

7435 INDUSTRIAL ROAD  
Phone (859) 647-2299

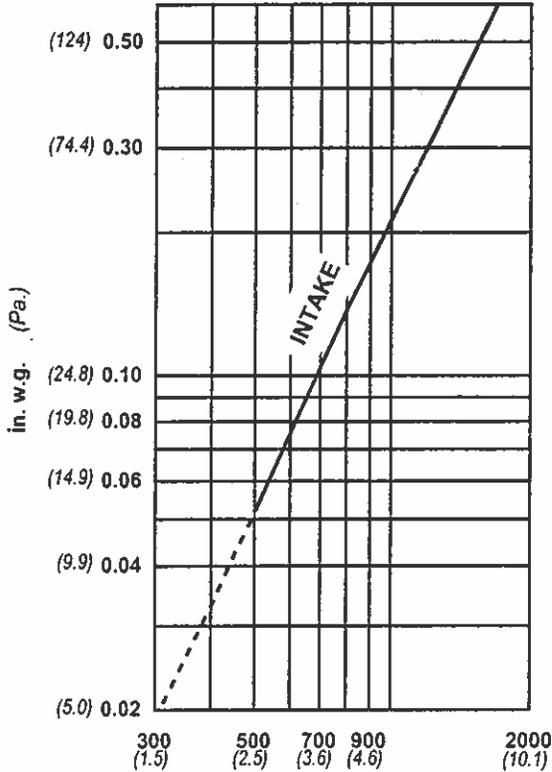
FLORENCE, KY  
Fax (859) 647-7810

### TE-57 STATIONARY LOUVER

DRN. BY ESS	DWG. NO. TF-57	REV.
DATE 12-01-02		

**Water Penetration** : .01 oz. (3.0 g.) at 523 fpm (2.65 m/s) recommended free area velocity  
**Pressure Drop** : .056 in. wg. (13.9 Pa.) at 523 fpm (2.65 m/s) and 3766 SCFM (1.77 scm/s)  
**Free Area** : 7.2 sq.ft. (0.669 sq. m.) = 45% for 48" x 48" (1.22 m x 1.22 m) test size

**PRESSURE DROP**



**FREE AREA IN SQUARE FEET (sq. meters)**

		WIDTH							
		12	24	36	48	60	72	84	96
HEIGHT	in. mm	304	609	914	1219	1524	1828	2133	2438
	12	0.28	0.62	0.97	1.31	1.61	1.95	2.30	2.64
	304	0.03	0.06	0.09	0.12	0.15	0.18	0.21	0.25
	24	0.71	1.59	2.47	3.35	4.11	4.99	5.87	6.75
	609	0.07	0.15	0.23	0.31	0.38	0.46	0.55	0.63
	36	1.15	2.56	3.97	5.38	6.62	8.03	9.44	10.85
	914	0.11	0.24	0.37	0.50	0.61	0.75	0.88	1.01
	48	1.58	3.53	5.47	7.42	9.12	11.07	13.01	14.96
	1219	0.15	0.33	0.51	0.69	0.85	1.03	1.21	1.39
	60	2.01	4.49	6.97	9.45	11.62	14.10	16.58	19.06
1524	0.19	0.42	0.65	0.88	1.08	1.31	1.54	1.77	
72	2.45	5.46	8.48	11.49	14.13	17.14	20.15	23.17	
1828	0.23	0.51	0.79	1.07	1.31	1.59	1.87	2.15	
84	2.88	6.43	9.98	13.53	16.63	20.18	23.73	27.27	
2133	0.27	0.60	0.93	1.26	1.54	1.87	2.20	2.53	
96	3.32	7.40	11.48	15.56	19.13	23.21	27.30	31.38	
2438	0.31	0.69	1.07	1.45	1.78	2.16	2.54	2.92	

VELOCITY THROUGH FREE AREA FPM (meters / sec)  
 standard air - .075 lbs. per cu. ft.  
 Ratings do not include the effect of a bird screen



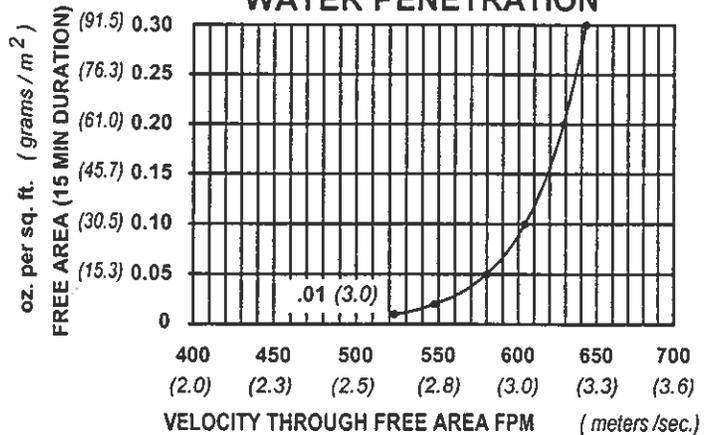
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**TE57**

Below is an explanation of how to use the performance data for the recommended free area velocity of 523 fpm (2.65 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**



Both maximum recommended free area velocity and beginning of water penetration are 523 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 10,000 CFM design flow  
**Step #1:**  
 min. free area =  $\frac{\text{Design CFM}}{\text{Max. Recommended Velocity}}$   
 =  $\frac{10,000}{523}$  = 19.12 sq. ft.

**Step #2:** From the free area table above the approximate louver size is 66" x 96" = (20.57 sq. ft.)