

# AS5V99HF

**STANDARD MATERIALS AND CONSTRUCTION**

- FRAME: 1/4" aluminum plate.
- BLADE: 1/4" structural aluminum angle.
- FRAME DEPTH: 5 1/2" deep
- SCREEN: 1/2" x 0.051" expanded aluminum
- FREE AREA: 49.3% - 7.89 sq. ft. (48" x 48" Louver)
- PSF RATING: 266 PSF Design Load
- TEST METHODS: ICC 500, FEMA 361, ASTM E 330, ASTM E 1886

AVAILABLE FINISHES: Mill, Kynar

**TEST METHODS**

ICC 500-2014, Standard for the Design and Construction of Storm Shelters.

FEMA 361 3rd Edition, Section B8 Test Methods for Impact and Pressure Testing.

ASTM E 330-02, Test Method for Structural Performance of Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference.

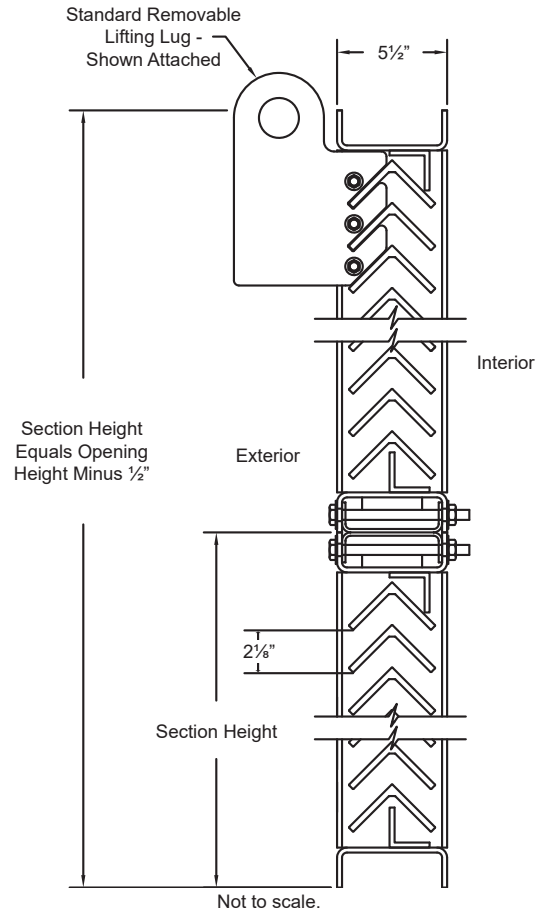
ASTM E 1886-05, Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile and Exposed to Cyclic Pressure Differentials.

**NOTES**

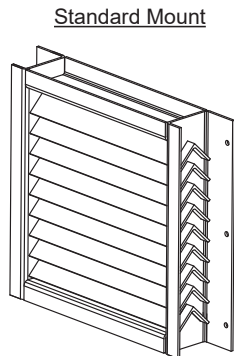
1. 1/2" nominal deduction will be made to the opening size given.
2. Keep occupants and mechanical equipment to a minimum of 3 feet away from the louver during severe weather events.
3. Approximate shipping weight is 15.0 lbs./sq.ft.

**LOUVER SIZES**

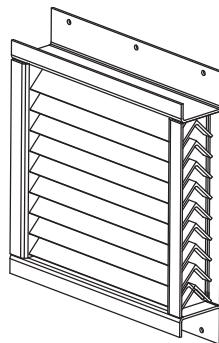
Min Panel	Max Single Panel
12"W x 12"H	90"W x 90"H (Continuous Wide) 78"W x 90"H (Continuous High)



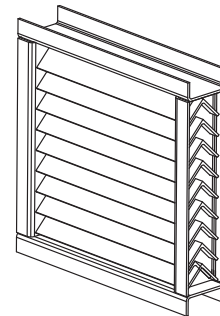
Optional Flange Mounting or Channel Frame Mounting



Cantilevered Mount  
Flange at Jambs



Cantilevered Mount  
Flange at Head & Sill



Recessed Mount  
Channel Frame

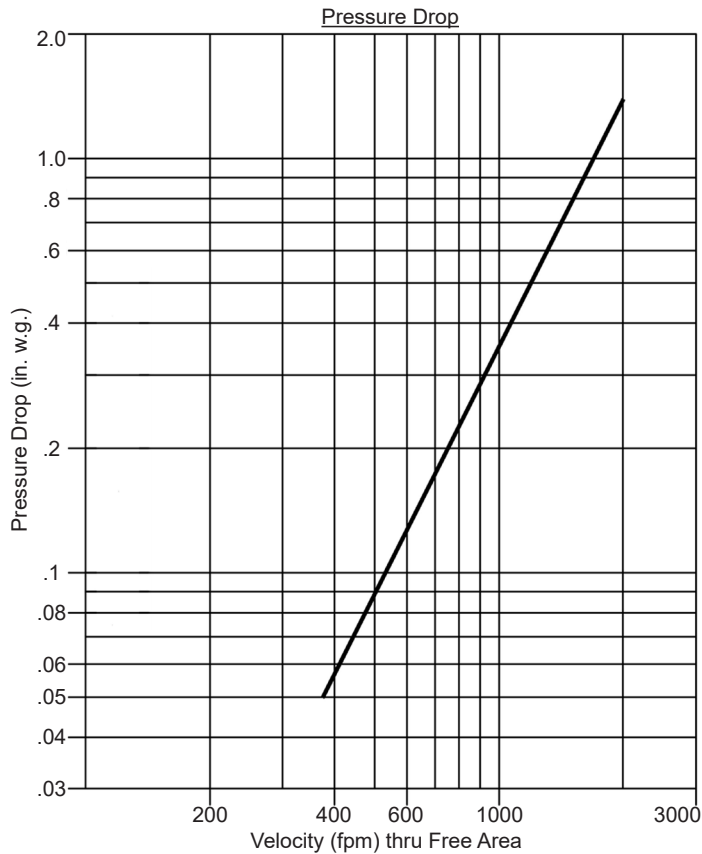
In the interest of product development, Airline Louvers reserves the right to make changes without notice.

Item #	Qty	Width	Height	Width	Height	Mullion	Type	Location	 <b>Union Made</b>	
		Opening Size		Louver Size			Screens			
<b>Arch. / Eng. :</b>						<b>EDR:</b>		<b>ECN:</b>		<b>Job:</b>
<b>Contractor:</b>										
<b>Project:</b>						<b>Date:</b>		<b>DWN:</b>		<b>DWG:</b>

# AS5V99HF

**PERFORMANCE DATA**

		Free Area sq.ft. (sq.m.)								
		Width in. (mm)								
		12" (305)	24" (610)	36" (914)	48" (1219)	60" (1524)	72" (1829)	78" (1981)	84" (2134)	90" (2286)
Height in. (mm)	12" (305)	0.23 (0.021)	0.79 (0.073)	1.34 (0.124)	1.88 (0.175)	2.44 (0.277)	2.99 (0.278)	3.26 (0.303)	3.53 (0.328)	3.72 (0.345)
	24" (610)	0.47 (0.043)	1.63 (0.152)	2.76 (0.256)	3.88 (0.361)	5.05 (0.469)	6.18 (0.574)	6.74 (0.626)	7.30 (0.678)	7.68 (0.714)
	36" (914)	0.71 (0.066)	2.48 (0.230)	4.18 (0.389)	5.89 (0.547)	7.66 (0.711)	9.36 (0.870)	10.22 (0.949)	11.07 (1.028)	11.65 (1.082)
	48" (1219)	0.95 (0.088)	3.32 (0.308)	5.61 (0.521)	7.89 (0.733)	10.26 (0.953)	12.55 (1.166)	13.69 (1.272)	14.84 (1.378)	15.61 (1.450)
	60" (1524)	1.19 (0.111)	4.16 (0.387)	7.03 (0.653)	9.90 (0.920)	12.87 (1.196)	15.74 (1.462)	17.17 (1.595)	18.61 (1.728)	19.58 (1.819)
	72" (1829)	1.43 (0.133)	5.01 (0.465)	8.46 (0.786)	11.90 (1.106)	15.48 (1.438)	18.93 (1.758)	20.65 (1.918)	22.37 (2.078)	23.54 (2.187)
	78" (1981)	1.56 (0.145)	5.43 (0.504)	9.17 (0.852)	12.91 (1.199)	16.78 (1.559)	20.52 (1.906)	22.39 (2.080)	26.14 (2.429)	27.51 (2.555)
	84" (2134)	1.68 (0.156)	5.85 (0.543)	9.88 (0.918)	13.91 (1.292)	18.08 (1.680)	22.11 (2.054)	24.13 (2.241)	28.03 (2.604)	27.51 (2.555)
	90" (2286)	1.80 (0.167)	6.27 (0.583)	10.59 (0.984)	14.91 (1.385)	19.39 (1.801)	23.71 (2.202)	25.86 (2.403)	27.16 (2.523)	29.49 (2.739)



Standard Air - .075 lbs per cu.ft.  
 Ratings do not include the effect of a screen.  
 Tests based on a 48" x 48" test size.

Fastener Schedule

Anchor Type	Substrate	Minimum Embedment	Minimum Edge Dist.
(1) ½" x 3" Red Head LDT	CMU	2½"	3¼"
(1) ½" x 3" Red Head LDT	Concrete	2½"	3¼"
(2) 2" x ½" Grade 5 Bolt	Steel	Full	¾"

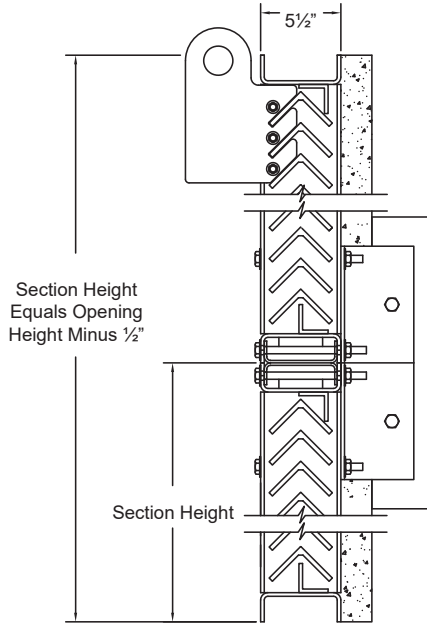
(1) Concrete screws shall be Read Head LDT Zinc Coated Concrete Screws.  
 (2) Bolts shall be a minimum Grade 5.

Note to Occupants:

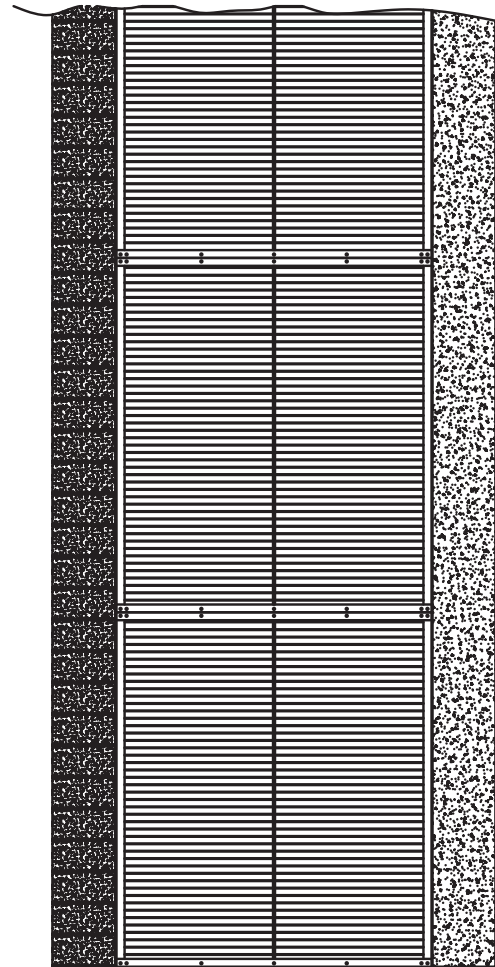
Keep occupants and mechanical equipment to a minimum of 3 feet away from Model AS5V99HF louvers during severe weather events.

## AS5V99HF

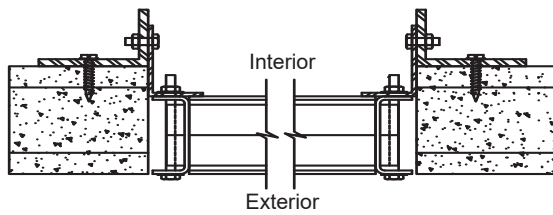
### LOUVER JAMB MOUNTING DETAILS



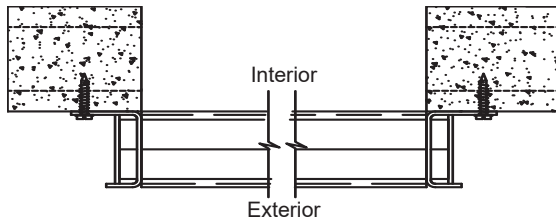
Model AS5V99HF  
Section View  
Recessed Frame Shown



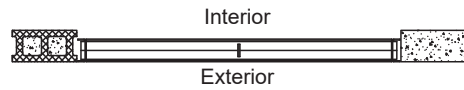
Model AS5V99HF  
Elevation



Model AS5V99HF  
Recessed Mount in Opening



Model AS5V99HF  
Cantilevered at Opening



Model AS5V99HF  
Plan View

## AS5V99HF

### LOUVER HEAD AND SILL MOUNTING DETAILS

