



Anemostat®

AIR DISTRIBUTION

MODEL **SL81**
8" DEEP - FIXED CHEVRON BLADE
HURRICANE LOUVER

STANDARD MATERIALS AND CONSTRUCTION

HEAD: .125" thick; formed 6063-T5 aluminum
SILL: .125" thick; formed 6063-T5 aluminum
JAMBS: .125" thick; extruded 6063-T5 aluminum
BLADES: .24" thick at edges, reducing to .063" thickness at mid point of profile

SILL PAN: Integral to louver

BLADE SPACING: 1.25"

ASSEMBLY: Welded

FINISH: Mill

SCREEN: None

MULLIONS: Exposed, vertical with 1.75" x .08" 6063-T5 extruded aluminum cover (multiple panels only)

DESIGN DATA: TAS 100

TAS 201, 202, 203

ASTM E1996, ASTM E330, ASTM E1886

This system has been tested for water infiltration resistance and is a water resistant system. This louver system has been designed in accordance with and meet the requirements of the FBC including High Velocity Hurricane Zones (HVHZ).

OPTIONS

Finishes - Baked Enamel, Kynar, Anodize

Variety of bird and insect screens

Extended Sill (Formed .063" aluminum)

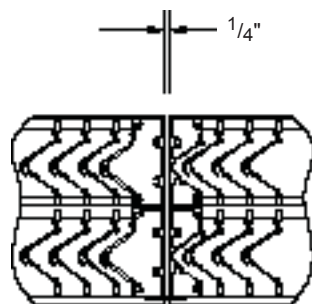
Sleeve

NOTES

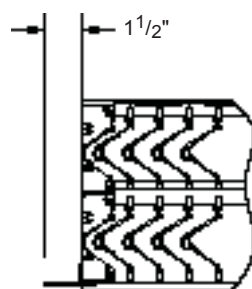
1. "A" width and "B" height are opening dimensions. Louvers are provided approximately 1/2" undersize.
2. Louver panels may be butted together to infinite width with a maximum height of 96". Maximum single panel is 48"W x 96"H.
3. Approved opening types: wood, steel, or concrete/masonry (masonry acceptable at jambs only, head and sill must be concrete). Anchoring details may vary.
4. Units are supplied with 2" x 2" mounting angles and mounting hardware for concrete installation as a standard. Please specify if louvers are to be mounted in substrate other than concrete, OR if the installation will require a 2" x 4" mounting angle. Larger, 2" x 4" mounting angles may be required to either maintain the minimum edge distance, or to ensure that the screws don't penetrate the sill pan of the louver.
5. See installation sketches for required mounting structure.

LOUVER SIZES

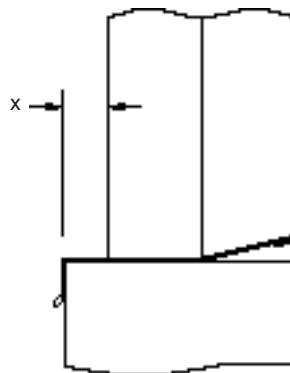
Panels	Min Panel	Max Single Panel
EAV-81	12"W x 12"H	48"W x 96"H



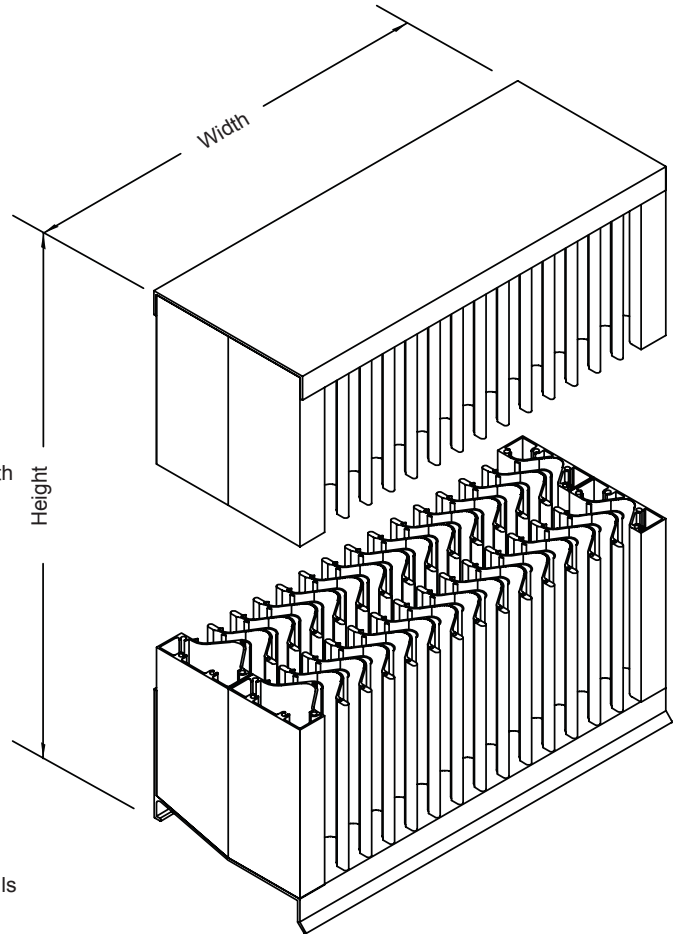
Standard Exposed
Vertical Mullion



Optional Flange
Frame



Optional Extended
Sill



AIR
PERFORMANCE



WIND
DRIVEN RAIN

Anemostat certifies that the performance data shown has been determined by test in accordance with applicable AMCA standards.

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ARCH/ENG.:

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PROJECT:

EDR:

ECN:

JOB:

DATE

DWN:

DWG:



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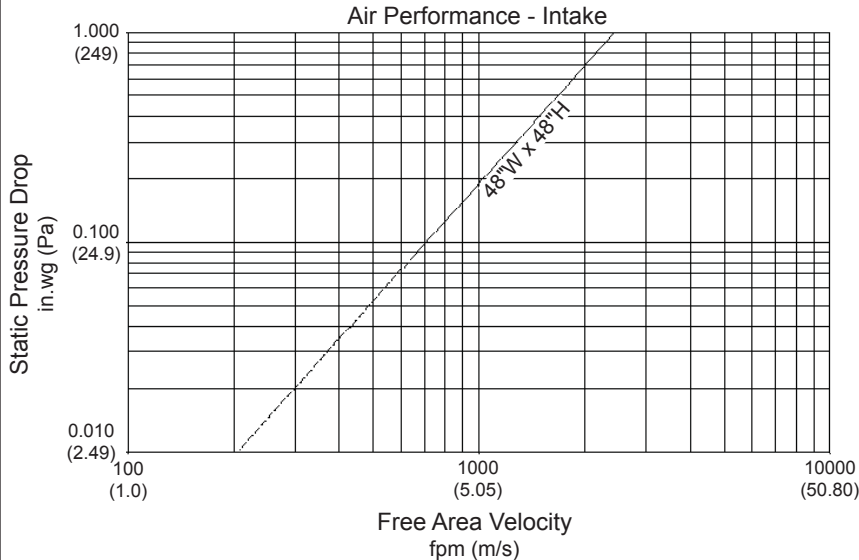
SL81

8" DEEP - FIXED CHEVRON BLADE
HURRICANE LOUVER

Air Performance: 0.30 in.wg (74.73 Pa) at 1250 fpm (6.4 m/s) and 5862.5 scfm (2.8 scm/s)

Free Area: 4.69 sq ft (0.435 sq m) = 29.31%

1. Test size is 48"W x 48"H (1.2m x 1.2m).
2. Ratings do not include the effect of a screen.
3. Data is at standard air density.



Free Area in sq.ft.(sq.m)

		Width			
		12 (305)	24 (610)	36 (914)	48 (1219)
Height	12 (305)	0.10 (0.009)	0.22 (0.021)	0.36 (0.033)	0.49 (0.045)
	24 (610)	0.38 (0.036)	0.88 (0.082)	1.40 (0.130)	1.90 (0.177)
	36 (914)	0.67 (0.062)	1.53 (0.142)	2.45 (0.227)	3.31 (0.308)
	48 (1219)	0.95 (0.088)	2.19 (0.203)	3.49 (0.324)	4.69 (0.435)
	60 (1524)	1.24 (0.115)	2.84 (0.264)	4.54 (0.421)	6.14 (0.571)
	72 (1829)	1.52 (0.141)	3.50 (0.325)	5.58 (0.518)	7.56 (0.702)
	84 (2134)	1.80 (0.168)	4.15 (0.386)	6.62 (0.615)	8.97 (0.833)
	96 (2438)	2.09 (0.194)	4.80 (0.446)	7.67 (0.712)	10.38 (0.965)

To determine minimum free area required for louvers:

1. Divide the required flow by the maximum recommended free area velocity.
2. Select the most desirable louver size from the free area table that meets the minimum free area that is required.
3. Compare specified performance to the certified water penetration and air performance ratings.

Example:

Given 10,000 CFM design flow

1. minimum free area = $\frac{\text{design flow}}{\text{maximum recommended velocity}}$

minimum free area = $\frac{10,000}{1000} = 10 \text{ sq.ft.}$

2. From the free area table the required louver size 48"W x 96"H.

Blade Spacing	Rainfall Rate	Wind Velocity	Core Velocity	Airflow	Free Area Velocity	Water Penetration Effectiveness	Discharge Loss Coefficient
1.25" (31.75mm)	8 in/hr (203 mm/hr)	50 mph (80.47 kph)	970 fpm (4.9 m/s)	10447cfm (296 m ³ /min)	2208 fpm (11.2 m/s)	100% - Class I	≤ .199 - Class 4

Wind Driven Rain Performance Test based on 39.37"W x 39.37"H (1m x 1m) Core Area Louver with 3.43 ft² (.319m²) Free Area.



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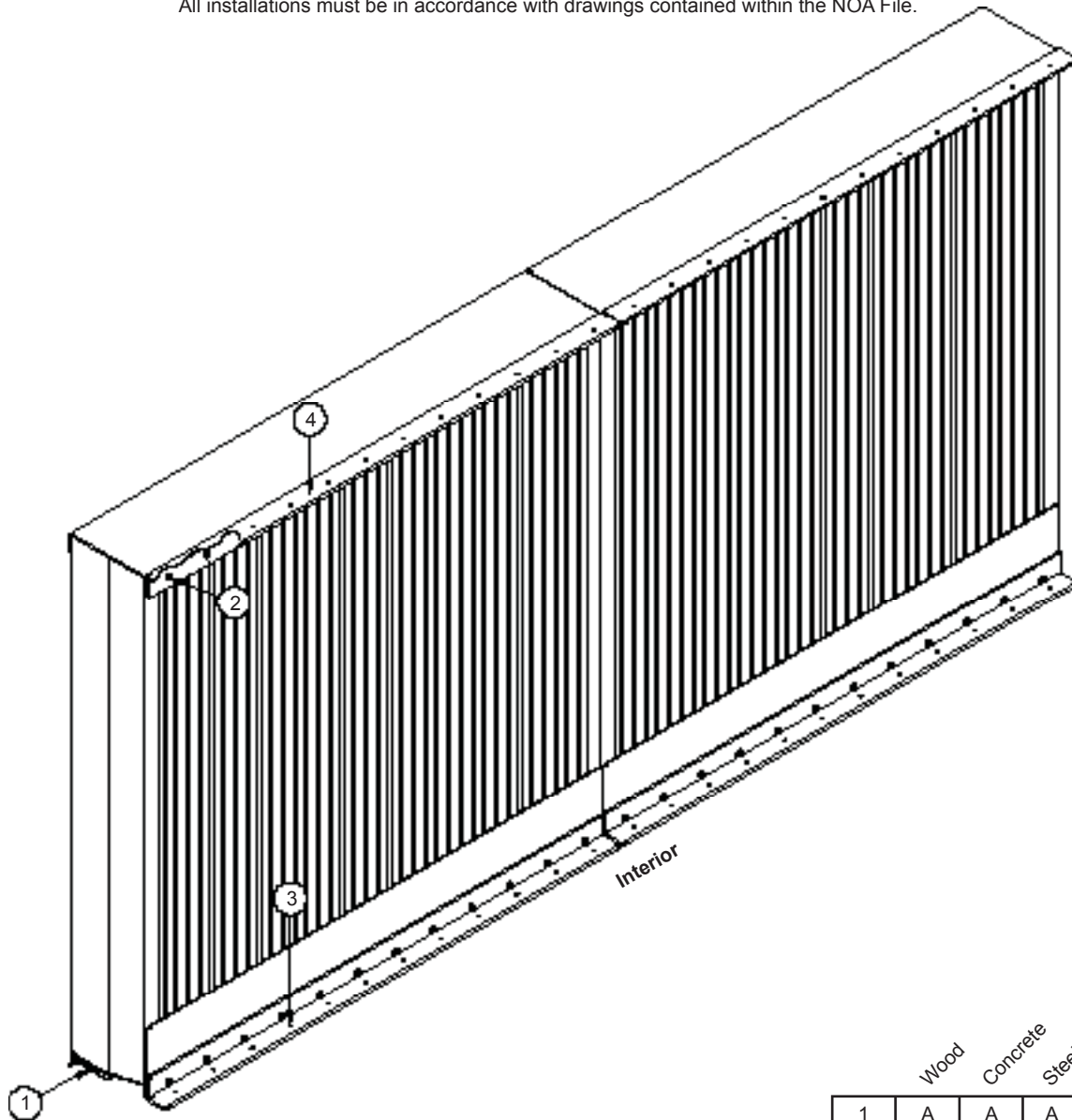
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Standard Installation

All installations must be in accordance with drawings contained within the NOA File.



All Fasteners Must Be A307 Plated Steel or 304 Stainless Steel	
A	1/2" Shim Block
B	#14 x 1 1/4" Tek Screw
C	#10 X 2" Wood Screw
D	#10 x 2" Long Sheet Metal Screw
E	1/4" x 1 3/4" Long Tapcon Screw
F	1/4" x 1 3/4" Bolt
G	2" x 2" 6063-T5 Extruded Aluminum Angle
H	2" x 4" 6063-T5 Extruded Aluminum Angle
I	.125" Aluminum Sleeve

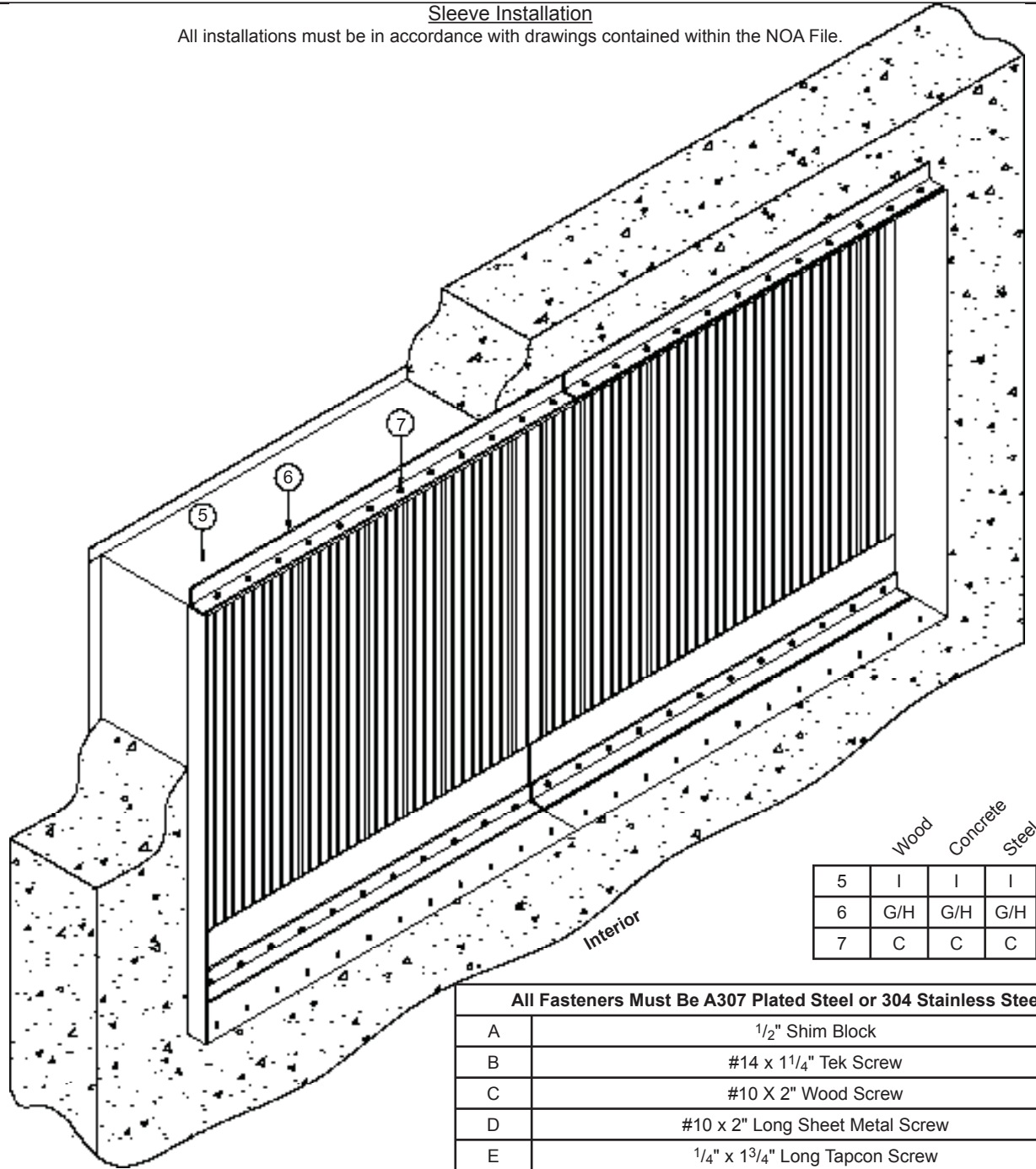
	Wood	Concrete	Steel
1	A	A	A
2	B	B	B
3	C	E	B/F
4	G/H	G/H	G/H

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Sleeve Installation

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	Wood	Concrete	Steel
5	I	I	I
6	G/H	G/H	G/H
7	C	C	C

All Fasteners Must Be A307 Plated Steel or 304 Stainless Steel	
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