

# MODEL EA-52

Miami-Dade HVHZ Louver • 5" Deep • Chevron Drainable Blades • Stationary • Extruded Aluminum

Withstands pressures up to ±120 PSF.

Standard Materials and Construction

- FRAME:** .081" thick (nominal) extruded aluminum, 6063-T52/T6 alloy. Channel frame.
- BLADE:** .081" thick (nominal) extruded aluminum, 6063-T52/T6 alloy.
- SCREEN:** ½" removable expanded aluminum bird screen. (Located on interior.)
- FINISH:** Mill

Test Methods

Miami-Dade County Florida Test Protocols:

- TAS (PA) 201
- TAS (PA) 202
- TAS (PA) 203

Options

Finish - Baked Enamel, Kynar, Anodize

Notes

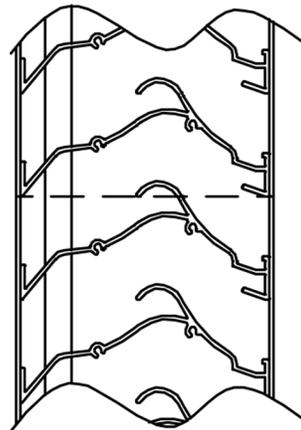
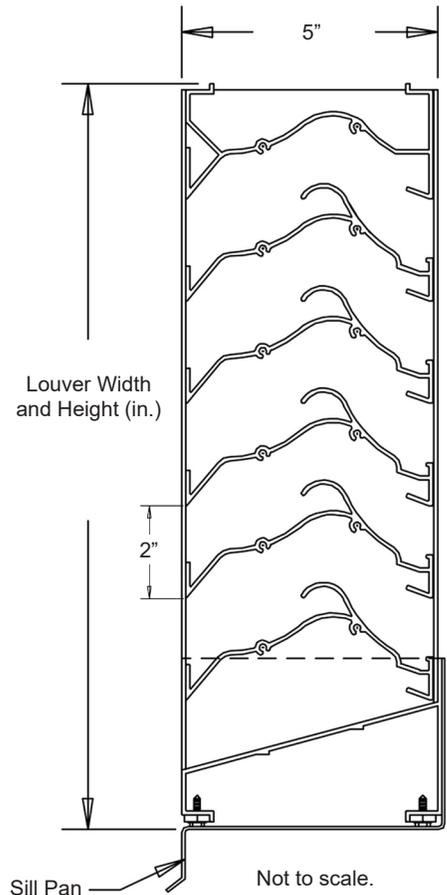
1. Nominal deductions will be made to the opening size given.
2. Approximate shipping weight is 7.0 lbs./sq.ft.

Louver Sizes

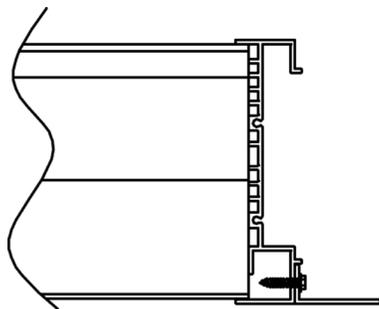
Min Panel	Max Single Panel
12"W x 12"H	60"W x 96"H

Windload requirements may limit panel sizes.

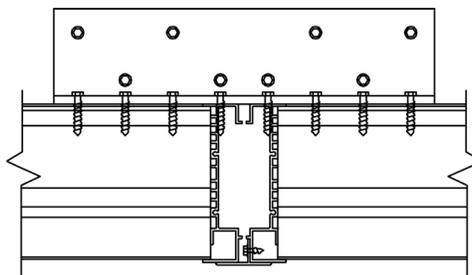
This louvers has been tested to **AMCA Standard 540 for Wind Borne Debris Impact Resistance.** See Page 2 for seal and listing information.



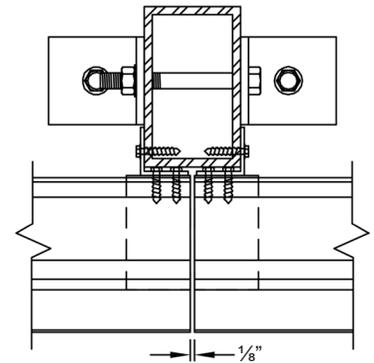
Standard Horizontal Mullion



Optional Flange Frame (Jamb shown)



Standard Vertical Mullion



Architectural Vertical Mullion Optional

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



Visit our Miami-Dade Listing Page for the latest NOA information:  
<https://goo.gl/DJ5UtM>

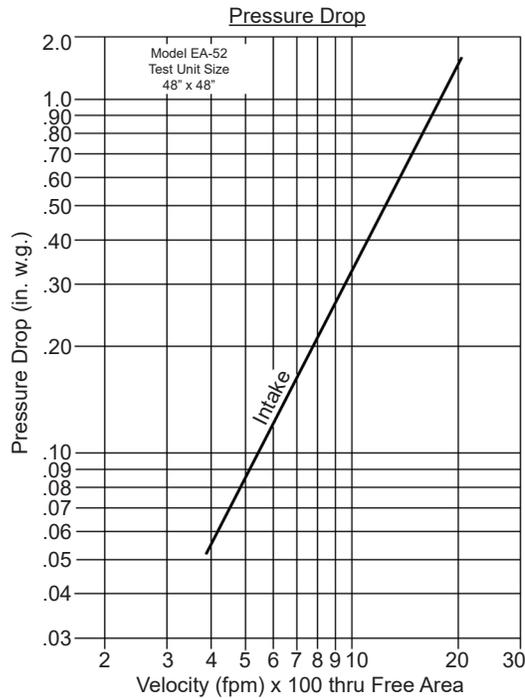
In the interest of product development, Arrow United reserves the right to make changes without notice.  
 450 Riverside Dr • Wyalusing PA, 18853 • Phone 570-746-1888 • Fax 570-746-9286  
 AUI-09-01-03

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## Performance Data

Pressure Drop: .31 in. w.g. (76.8 Pa) at 1250 fpm (6.35 m/s) and 8,850 scfm (4.18 scm/s) (intake).  
 Free Area: 7.08 sq.ft. (0.658 sq.m.) = 44.3% for 48"W x 48"H (1.22 m x 1.22 m) sample (AMCA Standard 500-L).  
 Beginning Point of Water Penetration: Above 1250 fpm (6.35 m/s).



Intake air converted to standard air density.  
 Tested to AMCA Standard 500-L, Figure 5.5.

		Free Area sq. ft. (sq. meters)				
		Width in. (mm)				
		12" (305)	24" (610)	36" (914)	48" (1219)	60" (1524)
Height in. (mm)	12" (305)	0.21 (0.020)	0.49 (0.046)	0.76 (0.071)	1.04 (0.097)	1.31 (0.122)
	24" (610)	0.63 (0.059)	1.43 (0.133)	2.24 (0.208)	3.04 (0.282)	3.85 (0.358)
	36" (914)	1.04 (0.097)	2.38 (0.221)	3.72 (0.346)	5.05 (0.469)	6.39 (0.594)
	48" (1219)	1.46 (0.136)	3.33 (0.309)	5.19 (0.482)	7.08 (0.658)	8.93 (0.830)
	60" (1524)	1.88 (0.175)	4.27 (0.397)	6.67 (0.620)	9.07 (0.843)	11.47 (1.066)
	72" (1829)	2.29 (0.213)	5.22 (0.485)	8.15 (0.757)	11.08 (1.029)	14.01 (1.302)
	84" (2134)	2.71 (0.252)	6.17 (0.573)	9.63 (0.895)	13.09 (1.216)	16.55 (1.538)
	96" (2438)	3.12 (0.290)	7.11 (0.661)	11.11 (1.032)	15.10 (1.403)	19.09 (1.774)

Wind-Driven Rain Penetration Classes		Discharge Loss Coefficient Classes	
Class	Effectiveness	Class	Coefficient
A	100% to 99%	1	0.4 and 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 and below

Ratings do not include effects of a screen. Tests based on 48" x 48" sample size per AMCA Standard 511.

### Wind Driven Rain Performance

Wind Velocity MPH (KPH)	Rainfall Rate in/h (mm/h)	Core Velocity FPM (m/s)	Ventilation Airflow CFM (cm/min)	Free Area Velocity FPM (m/s)	Effectiveness Ratio Percentage	Water Penetration Class	Coefficient of Discharge Class
29 (46.7)	3 (76)	583 (3)	6,276 (3)	1,133 (5.8)	99.0%	Class A	Class 3
Wind Velocity MPH (KPH)	Rainfall Rate in/h (mm/h)	Core Velocity FPM (m/s)	Ventilation Airflow CFM (cm/min)	Free Area Velocity FPM (m/s)	Effectiveness Ratio Percentage	Water Penetration Class	Coefficient of Discharge Class
50 (80.5)	8 (203)	673 (3.5)	7,243 (239)	1,307 (6.68)	95.7%	Class B	Class 3

Wind driven rain performance tests based on 1 m x 1 m (39.37" x 39.37") Louver with 7.08 sq.ft. (0.658 m<sup>2</sup>) free area.



Arrow United Industries certifies that the Model EA-52 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, Water Penetration, and Wind Driven Rain Ratings only.



IMPACT RESISTANT LOUVER  
 Basic Protection Level D

See www.AMCA.org for all certified or listed products

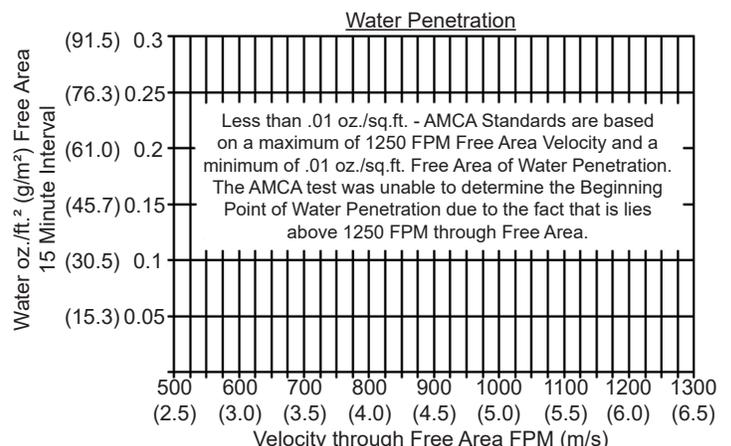
This label does not signify AMCA airflow performance certification.

Arrow United Industries certifies that the Model EA-52 shown herein is approved to bear the AMCA Listing Label. The ratings shown are based on tests and procedures performed in accordance with AMCA Publications and comply with the requirements of the AMCA Listing Label Program.

The AMCA Listing Label applies to Wind Borne Debris Impact Resistant Louvers.



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Both maximum recommended Free Area Velocity and Beginning Point of Water Penetration are 1250 FPM at standard air - .075 lbs. per cu. ft.

Visit our Miami-Dade Listing Page for the latest NOA information:

<https://goo.gl/DJ5uTm>

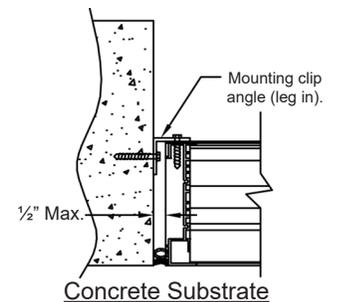
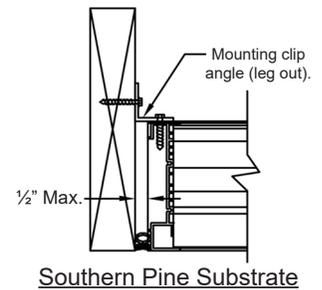
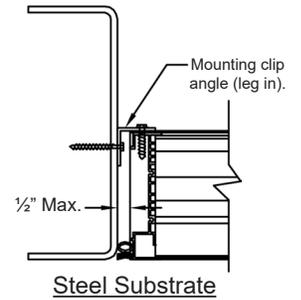
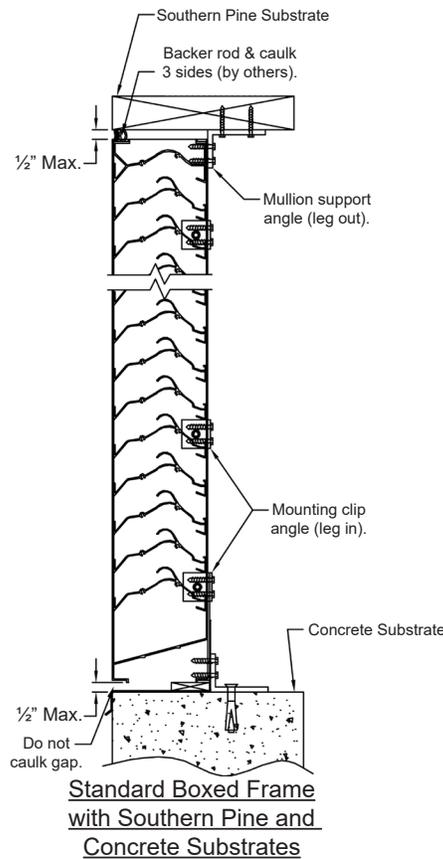
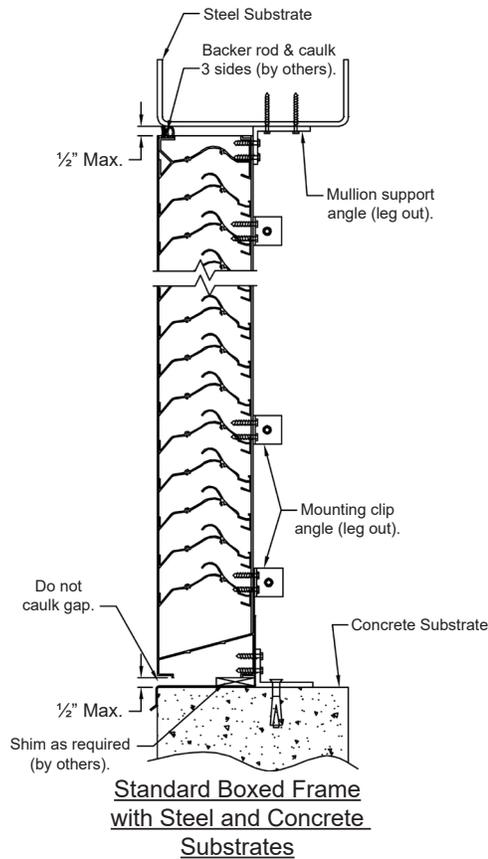
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## Standard Boxed Frame Model EA-52

### Installation Instructions



### Notes

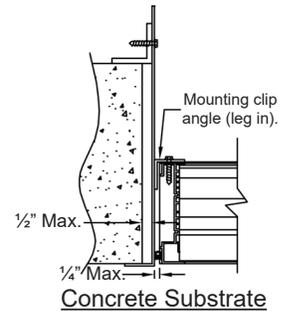
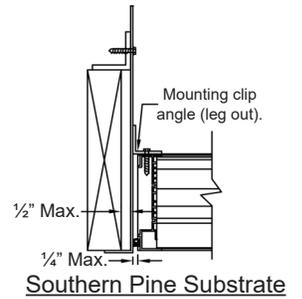
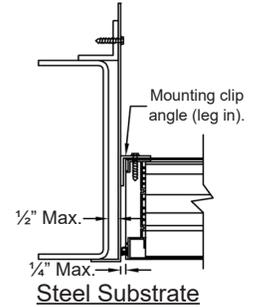
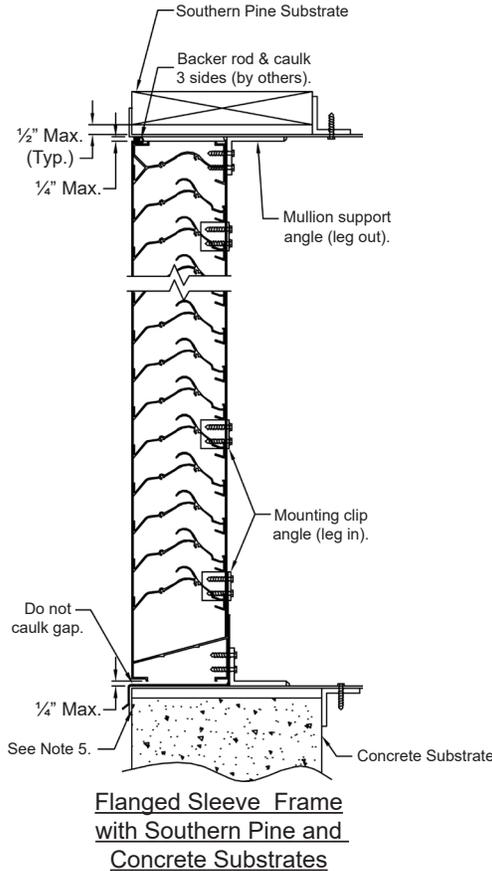
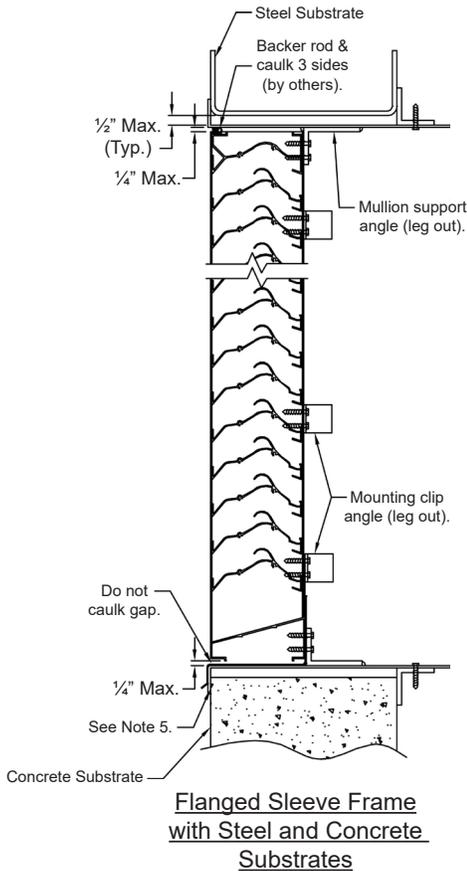
1. Mounting clip angles and mullion support angles can be installed with "legs in" or "legs out" for any approved substrate.
2. "Legs out" is the standard construction, "legs in" is optional.
3. Use shims to obtain uniform clearance between the louver and the louver opening on all sides. Shims are by others.
4. Shims under sill pans must allow enough space to insert "leg in" option into the opening.

# MODEL EA-52

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## Flanged Frame Model EA-52

### Installation Instructions



### Notes

1. Mounting clip angles and mullion support angles can be installed with "legs in" or "legs out" for any approved substrate.
2. "Legs out" is the standard construction, "legs in" is optional.
3. The flanged sleeve can be used with any approved substrate.
4. Use shims to obtain uniform clearance between the louver and the louver opening on all sides. Shims are provided by others.
5. Sealant/caulk between flanged angle sleeve and substrate (typ. 4 sides) by installer.
6. Two mounting angles run the full height and length of the louver.