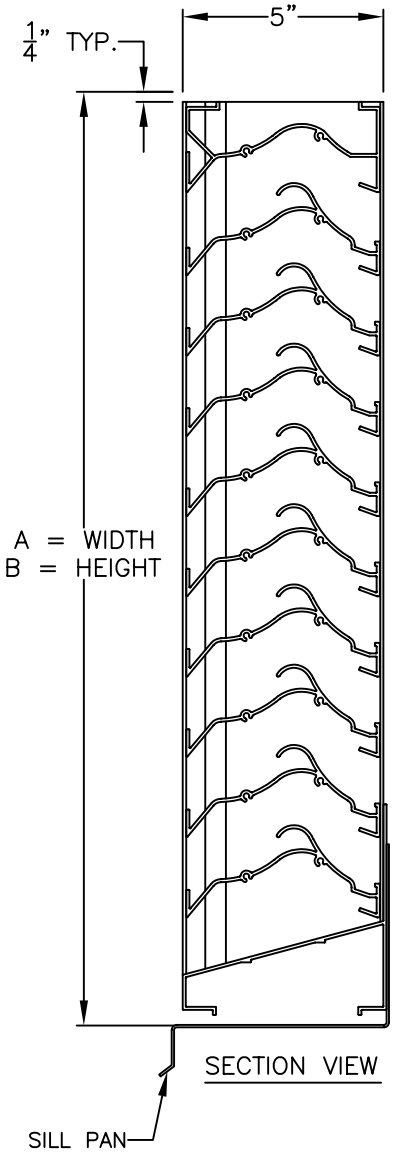
HURRICANE LOUVER: ALUMINUM 5" DEEP, FIXED DRAINABLE SIGHTPROOF TYPE BLADE, WITHSTANDS DESIGN PRESSURE UP TO +/– 120 PSF



SECTION VIEW

MODEL LE–54 STANDARD SPECIFICATIONS

FRAME: 5" DEEP CHANNEL, 0.078"" THICK 6063–T6 EXTRUDED ALUMINUM ALLOY.

BLADES: 0.060" THICK 6063–T6 EXTRUDED ALUMINUM ALLOY. 0.080" OPTIONAL.

FINISH: MILL.

SCREEN: 1/2" REMOVABLE EXPANDED ALUMINUM BIRD SCREEN, LOCATED ON INTERIOR.

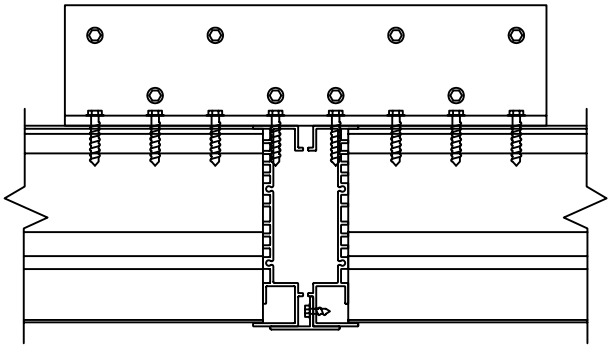
MAXIMUM PANEL SIZE: 60" x 96". WINDLOAD REQUIREMENTS MAY LIMIT PANEL SIZES.

MINIMUM PANEL SIZE: 12" x 12".

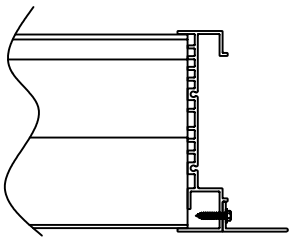
DIMENSIONS: "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING SIZES. LOUVERS ARE MADE 1/2" UNDERSIZE.

DESIGN DATA: PASSED MIAMI–DADE COUNTY FLORIDA TEST PROTOCOLS TAS (PA) 201, TAS (PA) 202, AND TAS (PA) 203.

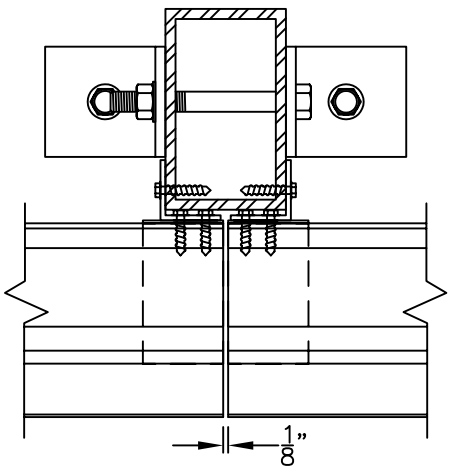
NOA NO.: 09–1015.10
FBC NO.: PENDING



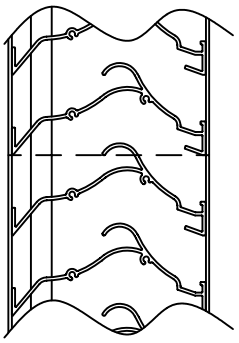
STANDARD VERTICAL MULLION



OPTIONAL FLANGED FRAME
(JAMB SHOWN)



ARCHITECTURAL VERTICAL MULLION OPTIONAL



STANDARD HORIZONTAL MULLION

American Warming and Ventilating LE–54 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, water penetration ratings, and wind driven rain ratings.

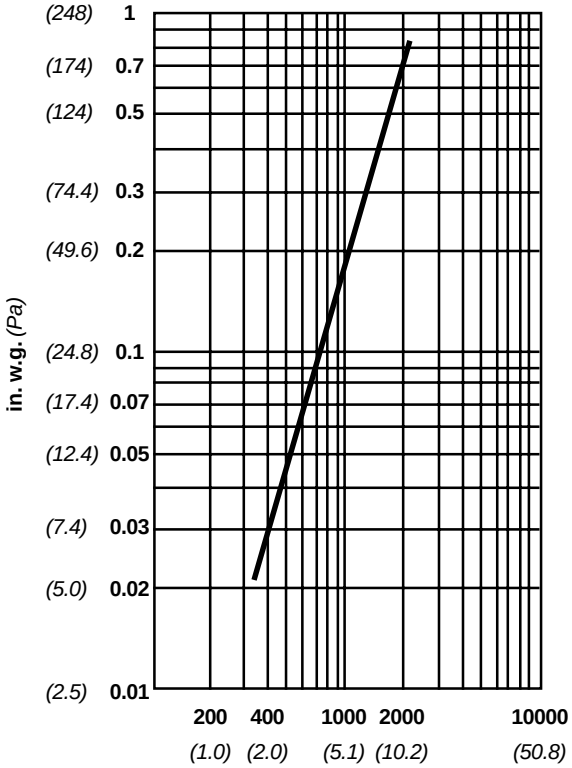
awv® american warming and ventilating
A MESTEK COMPANY
7301 INTERNATIONAL DRIVE HOLLAND, OHIO
Phone (419) 865–5000 Fax (419) 865–1375

LE–54 STATIONARY LOUVER

DRN. BY	DWG. NO.	REV.
DWW	LE–54	
DATE 12/28/09		

Water Penetration : 0.01 oz (3.0 g) at 1250 fpm (6.35 m/s) recommended free area velocity
Pressure Drop : 0.31 in wg (76.8 Pa.) at 1250 fpm (6.35 m/s) and 8850 scfm (4.18 scm/s)
Free Area : 7.08 sq ft (0.658 sq m) = 44.3% for 48" x 48" (1.22m x 1.22m) test size

INTAKE PRESSURE DROP



VELOCITY THROUGH FREE AREA fpm (m/s)

standard air- .075 lbs per cu ft

Ratings do not include the effect of a wire birdscreen

Test based on a 48" x 48" test size per AMCA Standard 511

FREE AREA IN SQUARE FEET (sq meters)

HEIGHT \ WIDTH	12	24	36	48	60	72	84	96
in.	12	24	36	48	60	72	84	96
mm	*305*	*610*	*914*	*1219*	*1524*	*1829*	*2134*	*2438*
12 / *305*	0.21 / *0.020*	0.49 / *0.046*	0.76 / *0.071*	1.04 / *0.097*	1.31 / *0.122*	1.58 / *0.147*	1.86 / *0.173*	2.13 / *0.198*
24 / *610*	0.63 / *0.059*	1.43 / *0.133*	2.24 / *0.208*	3.04 / *0.282*	3.85 / *0.358*	4.65 / *0.432*	5.46 / *0.507*	6.26 / *0.582*
36 / *914*	1.04 / *0.097*	2.38 / *0.221*	3.72 / *0.346*	5.05 / *0.469*	6.39 / *0.594*	7.73 / *0.718*	9.06 / *0.842*	10.40 / *0.966*
48 / *1219*	1.46 / *0.136*	3.33 / *0.309*	5.19 / *0.482*	7.08 / *0.658*	8.93 / *0.830*	10.80 / *1.003*	12.67 / *1.177*	14.53 / *1.350*
60 / *1524*	1.88 / *0.175*	4.27 / *0.397*	6.67 / *0.620*	9.07 / *0.843*	11.47 / *1.066*	13.87 / *1.289*	16.27 / *1.512*	18.67 / *1.734*
72 / *1829*	2.29 / *0.213*	5.22 / *0.485*	8.15 / *0.757*	11.08 / *1.029*	14.01 / *1.302*	16.94 / *1.574*	19.87 / *1.845*	22.80 / *2.118*
84 / *2134*	2.71 / *0.252*	6.17 / *0.573*	9.63 / *0.895*	13.09 / *1.216*	16.55 / *1.538*	20.01 / *1.859*	23.47 / *2.180*	26.93 / *2.502*
96 / *2438*	3.12 / *0.290*	7.11 / *0.661*	11.11 / *1.032*	15.10 / *1.403*	19.09 / *1.774*	23.08 / *2.144*	27.08 / *2.516*	31.07 / *2.886*

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

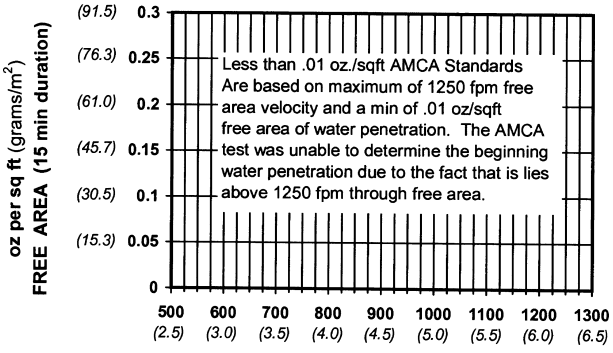
Wind Driven Rain Performance 29 mph (46.7 kph) with 3 in/h (76 mm/h)

Water Penetration	Effectiveness Ratio	Coefficient of Discharge	Core Velocity	Ventilation Airflow	Free Area Velocity
Class A	99.0%	Class 3	583 fpm (3 m/s)	6276 cfm (3 cm/s)	1133 fpm (5.8 m/s)

Wind Driven Rain Performance 50 mph (80.5 kph) with 8 in/h (203 mm/h)

Water Penetration	Effectiveness Ratio	Coefficient of Discharge	Core Velocity	Ventilation Airflow	Free Area Velocity
Class B	95.7%	Class 3	673 fpm (3.5 m/s)	7243 cfm (3 cm/s)	1307 fpm (6.6m/s)

WATER PENETRATION



VELOCITY THROUGH FREE AREA fpm (m/s)

Both maximum recommended free area velocity and beginning of water penetration are 1250 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.

amca CERTIFIED RATINGS
WATER PENETRATION
AIR PERFORMANCE
WIND DRIVEN RAIN
AIR MOVEMENT AND CONTROL ASSOCIATION INC.

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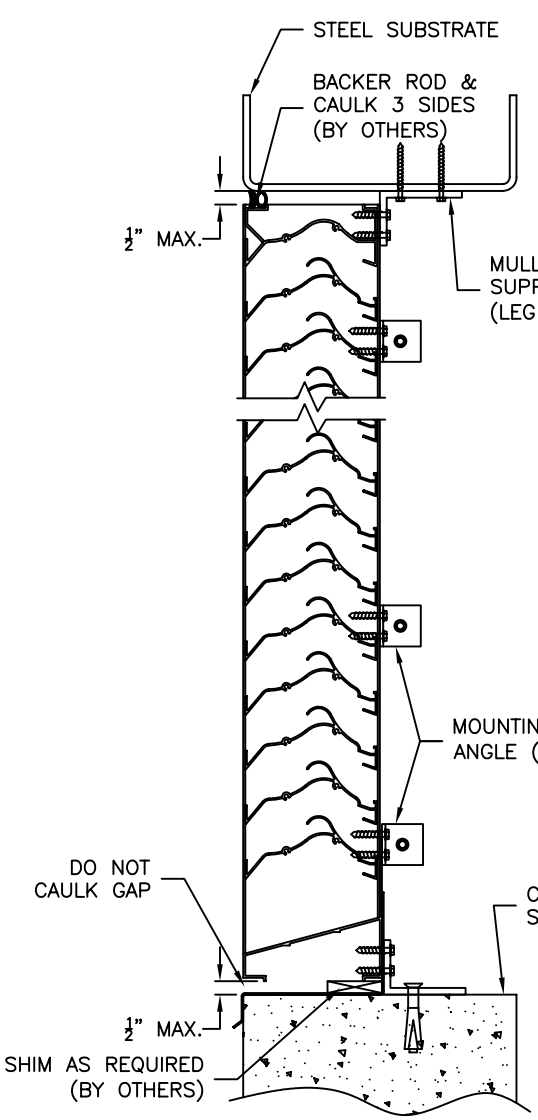
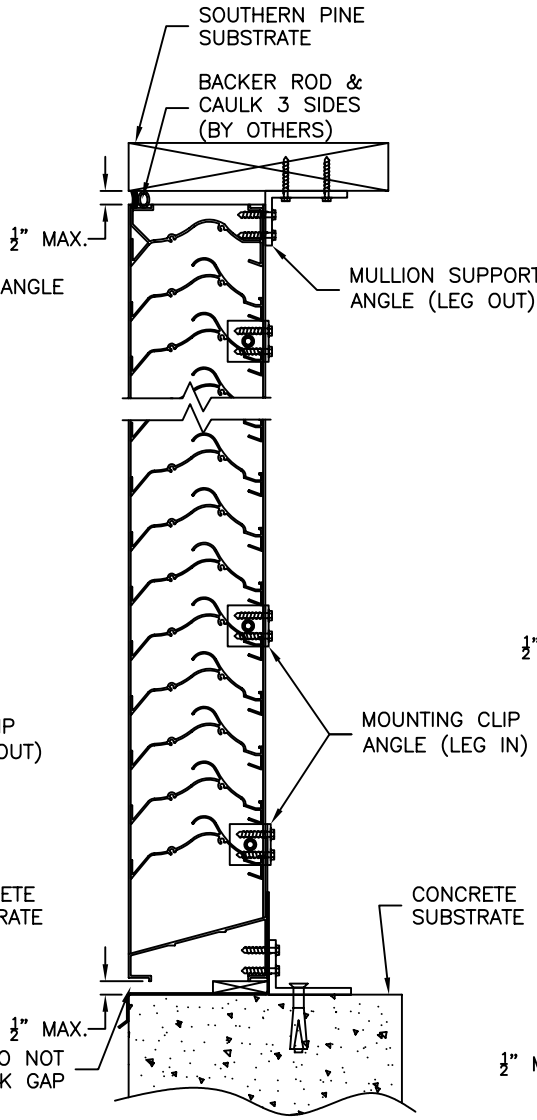
LE-54

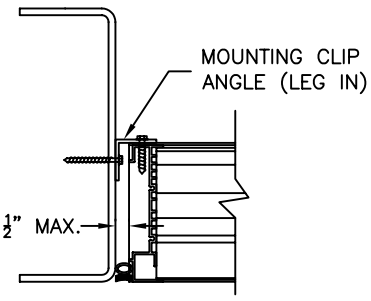
STANDARD BOXED FRAME LE-54
INSTALLATION INSTRUCTIONS



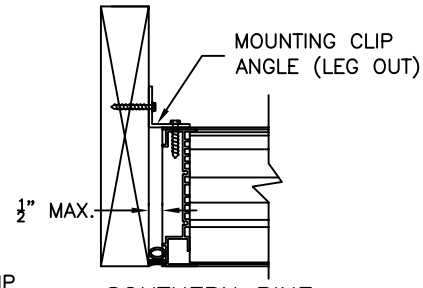
STANDARD BOXED FRAME WITH STEEL AND CONCRETE SUBSTRATES



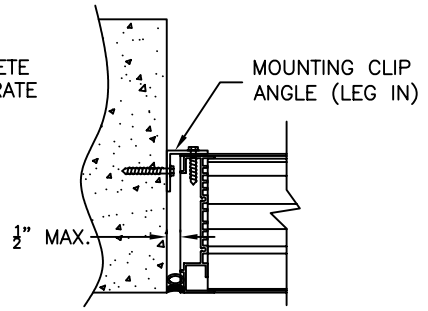
STANDARD BOXED FRAME WITH SOUTHERN PINE AND CONCRETE SUBSTRATES



STEEL SUBSTRATE



SOUTHERN PINE SUBSTRATE



CONCRETE SUBSTRATE

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.

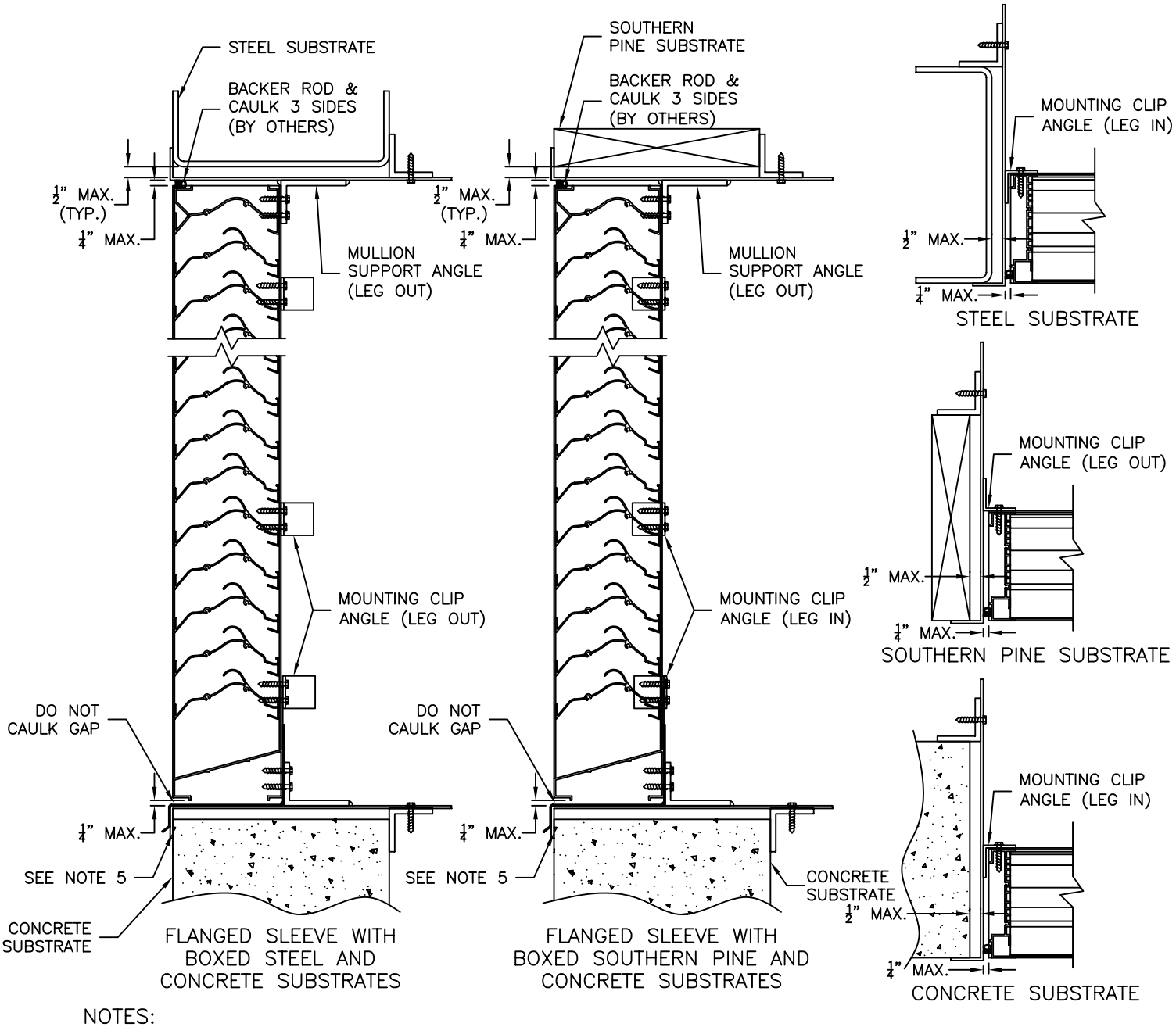
3) USE SHIMS TO OBTAIN UNIFORM CLEARANCE BETWEEN THE LOUVER AND THE LOUVER OPENING ON ALL SIDES, SHIMS ARE BY OTHERS.

4) SHIMS UNDER SILL PANS MUST ALLOW ENOUGH SPACE TO INSERT "LEG IN" OPTION INTO THE OPENING.

5) SEE DADE COUNTY NOA 09-1015.10 FOR INSTALLATION DETAILS.

awv american warming and ventilating 7301 International Drive Holland, Ohio 43528
tel: 419-865-5000 fax: 419-865-1375 website: www.awv.com e-mail: info@awv.com

FLANGED SLEEVE LE–54
INSTALLATION INSTRUCTIONS



NOTES:

1) MOUNTING CLIP ANGLES AND MULLION SUPPORT ANGLES CAN BE INSTALLED WITH "LEGS IN" OR "LEGS OUT" FOR ANY APPROVED SUBSRTATE.

2) "LEGS OUT" IS THE STANDARD CONSTRUCTION, "LEGS IN" IS OPTIONAL.

3) THE FLANGED SLEEVE OPTION 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 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 LOUVER.

7) SEE DADE COUNTY NOA 09–1015.10 FOR INSTALLATION DETAILS.

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