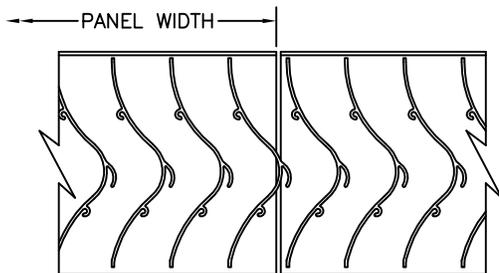
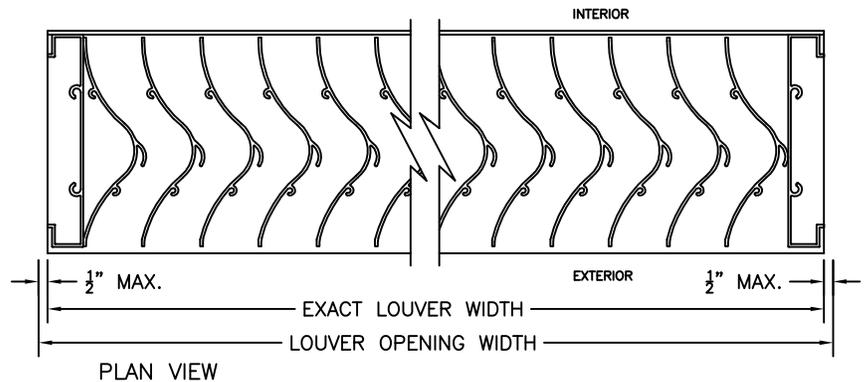
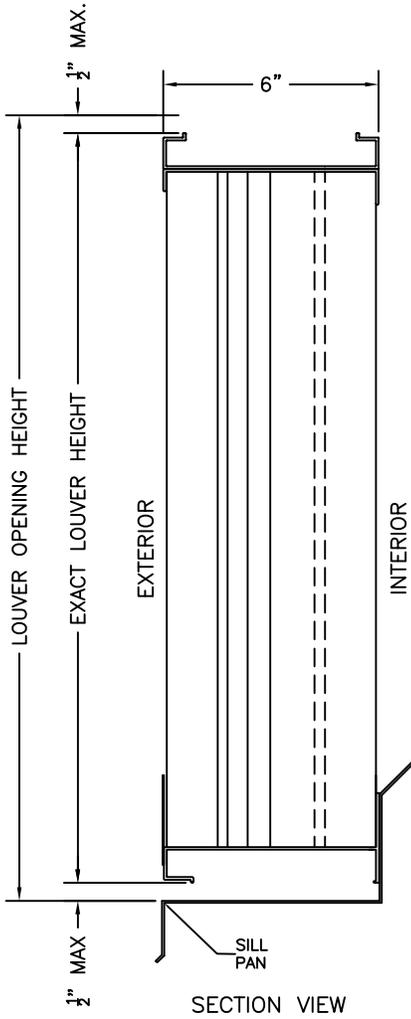


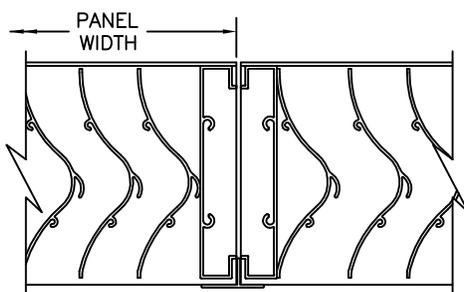
EXTRUDED ALUMINUM, 6" DEEP, VERTICAL SIGHTPROOF BLADES,
DADE COUNTY APPROVED TO DESIGN PRESSURES UP TO +/- 150 PSF

MODEL LE-68 STANDARD SPECIFICATIONS

- FRAME: 6" DEEP EXTRUDED ALUMINUM ALLOY; HEAD AND SILL .125 6063-T6; JAMBS .080 6063-T5.
- BLADES: .081" THICK 6063-T6 EXTRUDED ALUMINUM ALLOY.
- SILL PAN: .060 THICK FORMED ALUMINUM.
- FINISH: MILL.
- SCREEN: 1/2" REMOVABLE ALUMINUM BIRD SCREEN, LOCATED ON INTERIOR.
- MIN. PANEL SIZE: 18" WIDE X 18" HIGH.
- MAX. PANEL SIZE: PANEL WIDTH NOT TO EXCEED 96", PANEL HEIGHT NOT TO EXCEED 96", PANEL SQUARE FOOTAGE NOT TO EXCEED 32 SQ.FT. UNLIMITED ASSEMBLY WIDTH UTILIZING STD. VISIBLE OR OPTIONAL CONCEALED MULLIONS, ASSEMBLY HEIGHT LIMITED TO A SINGLE PANEL. CONSULT FACTORY FOR OPENINGS GREATER THEN 96" HIGH.
- DIMENSIONS: "A" (WIDTH) AND "B" (HEIGHT) ARE OPENING SIZES; LOUVERS ARE MADE 1" UNDERSIZED.
- TESTING: IN ACCORDANCE WITH DADE COUNTY TEST PROTOCOLS TAS-201, TAS-202, AND TAS-203 FOR STRUCTURAL INTEGRITY. IN ACCORDANCE WITH (TAS)-100(A)-95 FOR HIGH-VELOCITY HURRICANE ZONES
- SUBSTRATES: QUALIFIED SUBSTRATES ARE STEEL, 3,000-PSI CONCRETE, OR SOUTHERN PINE
- RATINGS: LOUVERS ARE QUALIFIED FOR "ENHANCED PROTECTION" FOR ESSENTIAL FACILITIES APPLICATIONS VIA THE SUCCESSFUL TESTING OF THE LARGE MISSILE IMPACT TEST (AT 80 F/S) AND CYCLIC LOAD TESTS AS SPECIFIED BY ASTM 1886/1996.
- MIAMI-DADE COUNTY NOA# 17-0713.11
- FLORIDA PRODUCT APPROVAL FL# 7453.4
- AMCA 540 LISTED (IMPACT RESISTANT LOUVER - BASIC PROTECTION LEVEL D)
- AMCA 550 LISTED (HIGH VELOCITY RAIN RESISTANT WITH BLADES FULLY OPEN).



CONCEALED MULLION - STANDARD



VISIBLE MULLION - OPTIONAL



AWV certifies that the model LE-68 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 and High Velocity Wind Driven Rain Resistant Louvers.

awv american warming and ventilating

A MESTEK COMPANY

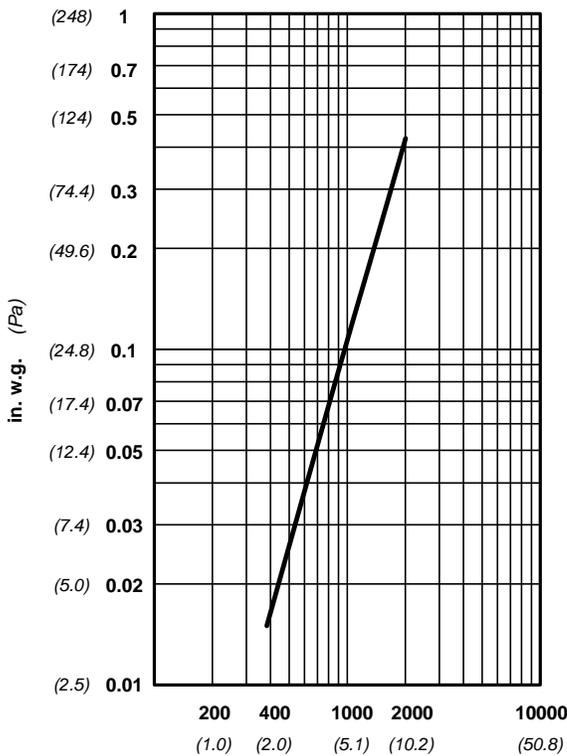
7301 INTERNATIONAL DRIVE HOLLAND, OHIO
Phone (419) 865-5000 Fax (419) 865-1375

LE-68 STATIONARY LOUVER

DRN. BY	JMC	DWG. NO.	LEV.
DATE	05/04/20	LE-68	

Pressure Drop : 0.164 in wg (40.6 Pa.) at 1250 fpm (6.35 m/s) and 9813 scfm (4.63 scm/s)
Free Area : 7.30 sq ft (0.678 sq m) = 46.1% for 48" x 48" (1.22m x 1.22m) test size
Missile Impact : "Enhanced Protection" Rated at 55 mph (80 m/s) per ASTM 1886/1996

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 bird screen

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

FREE AREA IN SQUARE FEET (sq meters)

		WIDTH							
		in. mm	18 457	24 610	36 914	48 1219	60 1524	72 1829	84 2134
HEIGHT	18 457	0.69	0.96	1.53	2.07	2.66	3.22	3.77	4.36
	24 610	1.04	1.44	2.30	3.12	4.00	4.85	5.68	6.56
	36 914	1.74	2.41	3.85	5.21	6.68	8.11	9.49	10.96
	48 1219	2.44	3.37	5.39	7.30	9.37	11.37	13.30	15.37
	60 1524	3.14	4.34	6.94	9.40	12.05	14.62	17.11	19.77
	72 1829	3.84	5.31	8.48	11.49	14.74	17.88	20.92	24.17
	84 2134	4.54	6.27	10.03	13.58	17.42	21.14	24.73	28.58
	96 2438	5.24	7.24	11.57	15.67	20.11	24.39	28.54	32.98

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 Class	Effectiveness Ratio Percentage	Coefficient of Discharge Class	Core Velocity fpm (m/s)	Ventilation Airflow cfm (m³/min)	Free Area Velocity fpm (m/s)
Class A	100.0%	Class 1	980 (5)	10546 (299)	2170 (11)

Wind Driven Rain Performance 50 mph (80.5.7 kph) with 8 in/h (203 mm/h)

Water Penetration Class	Effectiveness Ratio Percentage	Coefficient of Discharge Class	Core Velocity fpm (m/s)	Ventilation Airflow cfm (m³/min)	Free Area Velocity fpm (m/s)
Class A	99.2%	Class 1	784 (4)	8440 (239)	1736 (8.8)
Class A	99.1%	Class 1	877 (4.5)	9445 (267)	1943 (9.9)
Class A	99.1%	Class 1	982 (5)	10578 (300)	2176 (11)

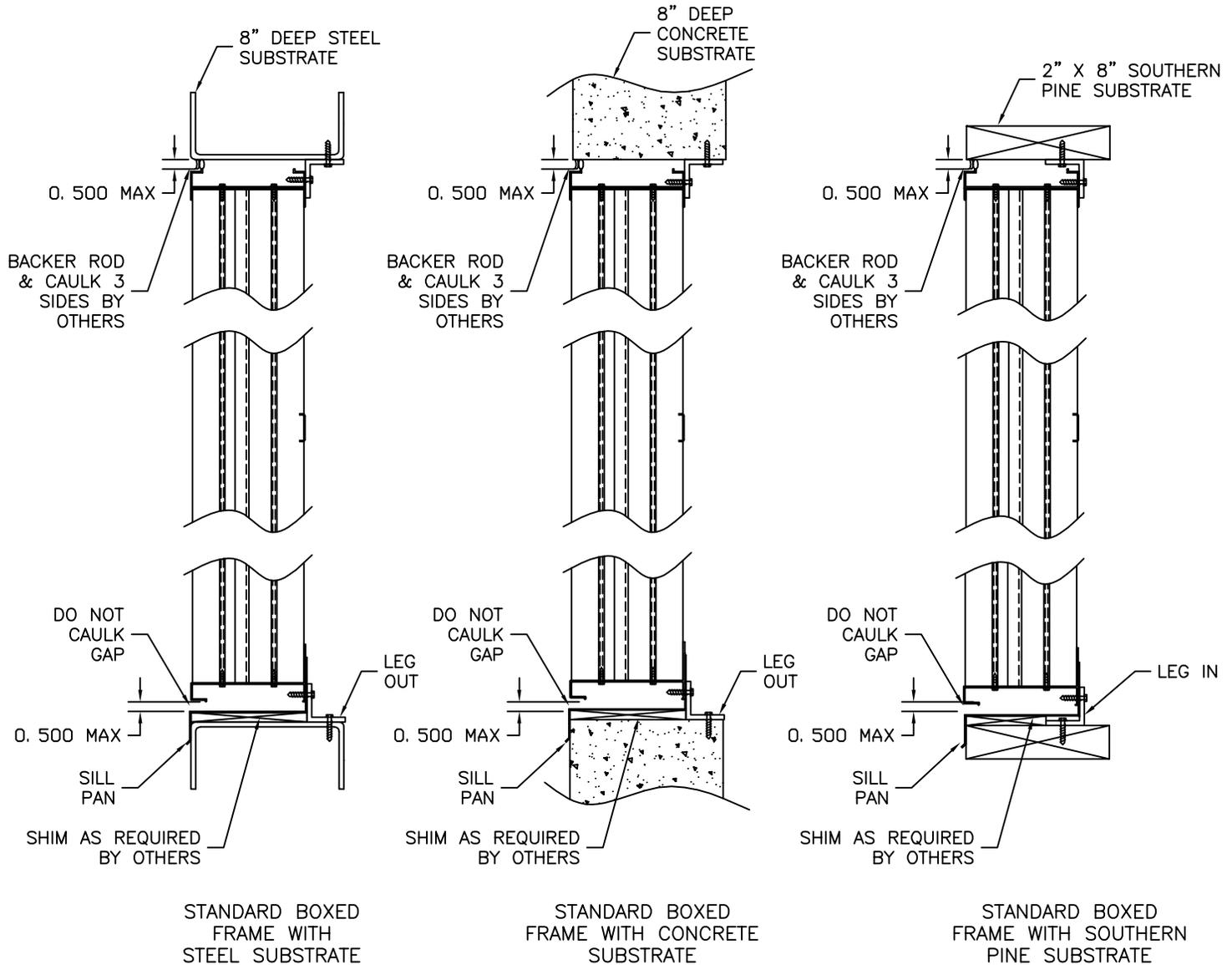


AWV certifies that the model LE-68 louver shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to Air Performance and Wind Driven Rain only.

LE-68

Wind Driven Rain Performance Tests based on 1m x 1m Core Area (39.37" x 39.37") Louver with 5.88 ft2 (0.546 m2) Free Area

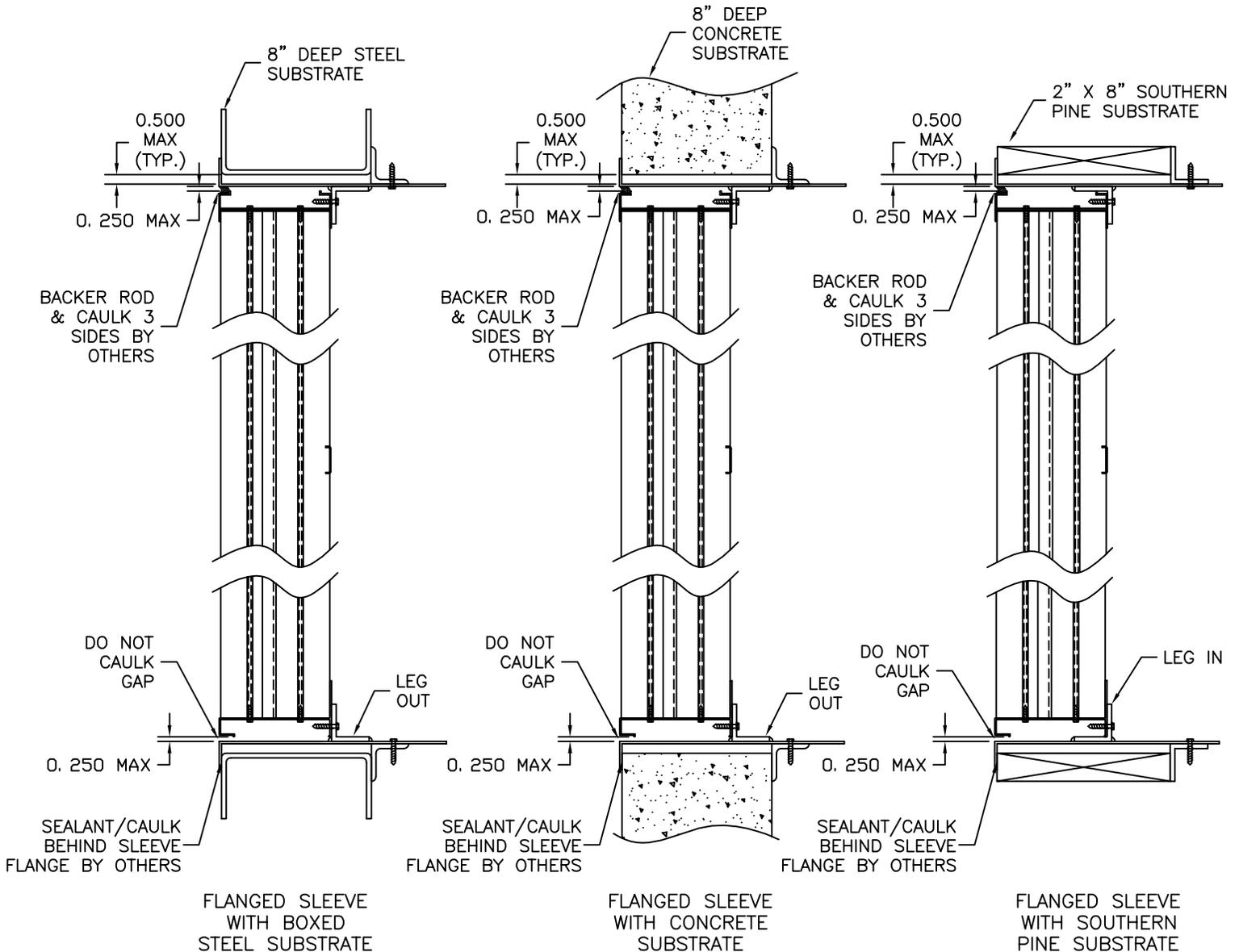
BOXED FRAME LE-68 INSTALLATION INSTRUCTIONS



NOTES:

- 1) MOUNTING 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 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) SHIMS UNDER SILL PANS MUST ALLOW ENOUGH SPACE TO INSERT "LEG IN" OPTION INTO THE OPENING.
- 6) TWO MOUNTING ANGLES RUN THE FULL WIDTH OF LOUVER.
- 7) SEE DADE COUNTY NOA 17-0713.11 FOR INSTALLATION DETAILS.

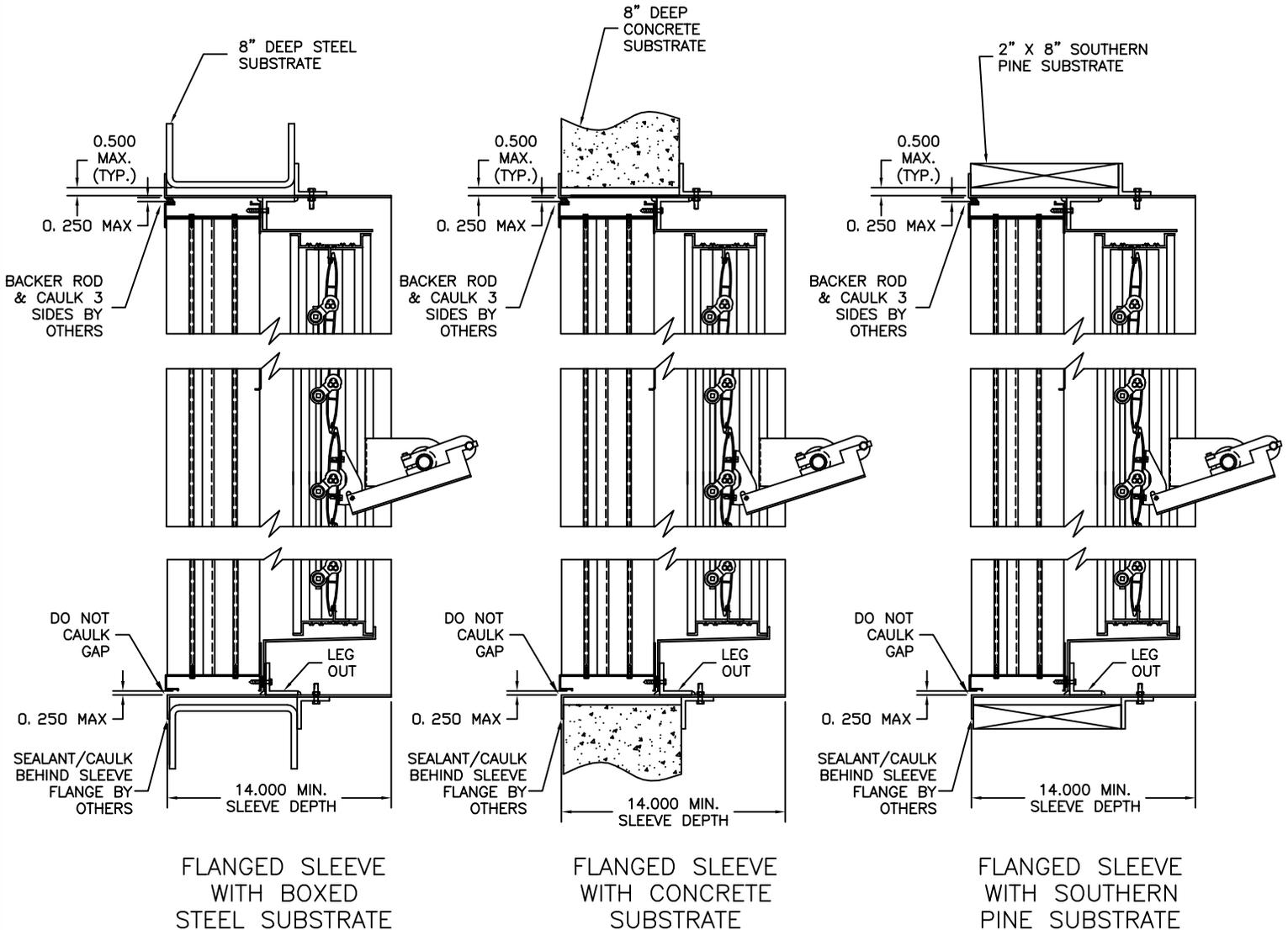
FLANGED SLEEVE LE-68 INSTALLATION INSTRUCTIONS



NOTES:

- 1) MOUNTING 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 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 BETWEEN FLANGED ANGLE SLEEVE AND THE SUBSTRATE BY INSTALLER.
- 6) TWO MOUNTING ANGLES RUN THE FULL WIDTH OF LOUVER.
- 7) SEE DADE COUNTY NOA 17-0713.11 FOR INSTALLATION DETAILS.

FLANGED SLEEVE INSTALLATION INSTRUCTIONS FOR TAS-100 APPROVED LE-68 LOUVER / DAMPER



NOTES:

- 1) THE FLANGED SLEEVE OPTION CAN BE USED WITH ANY APPROVED SUBSTRATE.
- 2) USE SHIMS TO OBTAIN UNIFORM CLEARANCE BETWEEN THE LOUVER AND THE LOUVER OPENING ON ALL SIDES, SHIMS ARE BY OTHERS.
- 3) SEALANT BETWEEN FLANGED ANGLE SLEEVE AND THE SUBSTRATE BY INSTALLER.
- 4) TWO MOUNTING ANGLES RUN THE FULL WIDTH OF LOUVER.
- 5) SEE DADE COUNTY NOA 17-0713.11 FOR INSTALLATION DETAILS.