

EME6325D WIND-DRIVEN RAIN RESISTANT STATIONARY LOUVER

MIAMI-DADE APPROVED

MIAMI-DADE COUNTY, FLORIDA NOTICE OF ACCEPTANCE NUMBER: 17-1221.29 (Expires 8/25/21)
FLORIDA PRODUCT APPROVAL (FBC 2017) #FL 21829.6

STANDARD CONSTRUCTION

LOUVER FRAME

6" (152) deep, 6063T6 extruded aluminum with .095" (2.4) nominal wall thickness.

LOUVER BLADES

6063T6 extruded aluminum .062" (1.6) nominal wall thickness. Blades are positioned vertically.

BIRD SCREEN

1/2" x .063" (13 x 1.6) square mesh aluminum bird screen in removable frame. Screen adds approximately 1/2" (13) to louver depth.

FINISH

Mill.

MINIMUM SIZE

12"w x 12"h (305 x 305).

APPROXIMATE SHIPPING WEIGHT

14 lbs. per sq. ft. (68.4 kg/m²)

MAXIMUM SHIPPING SECTION SIZE

48"w x 120"h (1219 x 3048).

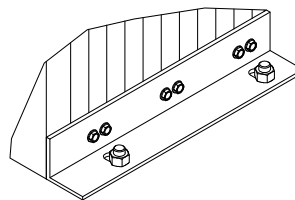
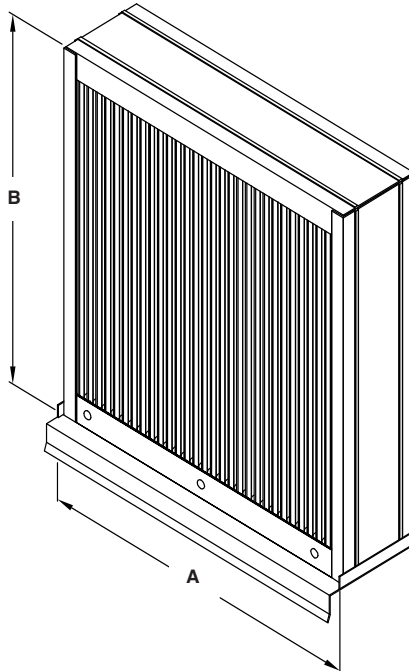
MAXIMUM OVERALL ASSEMBLY SIZE

Unlimited width x 120"h (3048) with or without damper. Overall assembly consists of individual sections combined in the field (combination of sections in the field not by Ruskin).

INSTALLATION

Ruskin's EME6325D utilizes a continuous angle installation method and must be installed per the appropriate Installation Detail. Reference the appropriate separate Installation Instruction Sheets.

Consult Ruskin for additional information.



Installation Angle Detail

Please reference our website www.ruskin.com for up to date LEED® information.

FEATURES

- The EME6325D passes the Miami-Dade TAS-100A Wind Driven Rain Test without a damper and sloped duct.
- The EME6325D Louver is approved for use in open structures without provisions to manage weather infiltration (dry rooms).
- Exceptional windload integrity of ±150 PSF (±7.18 KPa).
- 39% Free Area.
- Published free area and pressure drop performance ratings based on testing in accordance with AMCA Publication 500-L.

VARIATIONS

- Filter racks.
- A variety of bird and insect screens.
- Selection of finishes: prime coat, 50% PVDF (modified fluoropolymer), epoxy, Pearledize, 70% PVDF clear and color anodize. (Some variation in anodize color consistency is possible.)

Consult Ruskin for other special requirements.

*Please provide Rough Opening Dimensions for "A" and "B" dimensions. Unless ordered as actual size, the louver will be provided 1/2" (12) smaller than the "A" and "B" dimensions provided.



Ruskin certifies that the EME6325D 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.

The AMCA Listing Label applies to High Velocity Rain Resistant Louver Louvers.

EME6325D meets the requirements for the following:

- AMCA540 and AMCA 550 Listed
- Miami-Dade NOA Approval 17-1221.29
- TAS-100A Wind Driven Rain Test
- Florida Product Approved FL 21829.6
- AMCA 500-L Tested

Dimensions in inches, parenthesis () indicate millimeters.

TAG	QTY.	SIZE		VARIATIONS
		A*-WIDE	B*-HIGH	
PROJECT ARCH./ENGR. REPRESENTATIVE		LOCATION CONTRACTOR DATE		

SUGGESTED SPECIFICATION

Furnish and install louvers as hereinafter specified where shown on plans or as described in schedules. Louvers shall possess stationary vertical blades designed to prevent the penetration of wind driven rain. Louver blades shall be contained within a 6" (152) frame. Extended sill shall be provided to capture and drain water to exterior of building. Louver components (heads, jambs, sill and blades) shall be factory assembled by the louver manufacturer. Louver sizes too large for shipping shall be built up by the contractor from factory assembled louver sections to provide overall sizes required. Louver design shall incorporate visible mullions on units larger than 48" x 120" (1219 x 3048).

Louvers shall be Ruskin Model EME6325D extruded 6063T6 aluminum alloy construction as follows:

MATERIAL

Frame:	.095" (2.4) wall thickness, caulking surfaces provided.
Blades:	.062" (1.6) nominal wall thickness, Blades are mounted vertically.
Extended Sill:	.063" (2.1) wall thickness with upturned side panels to prevent water leakage.
Screen:	1/2" x .040" (13 x 1.6) aluminum bird screen in removable frame.
Finish:	Select finish specification from Ruskin Finishes Brochure.

STRUCTURAL DESIGN

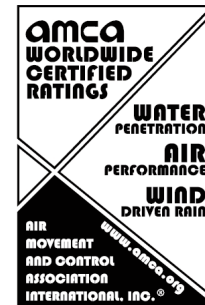
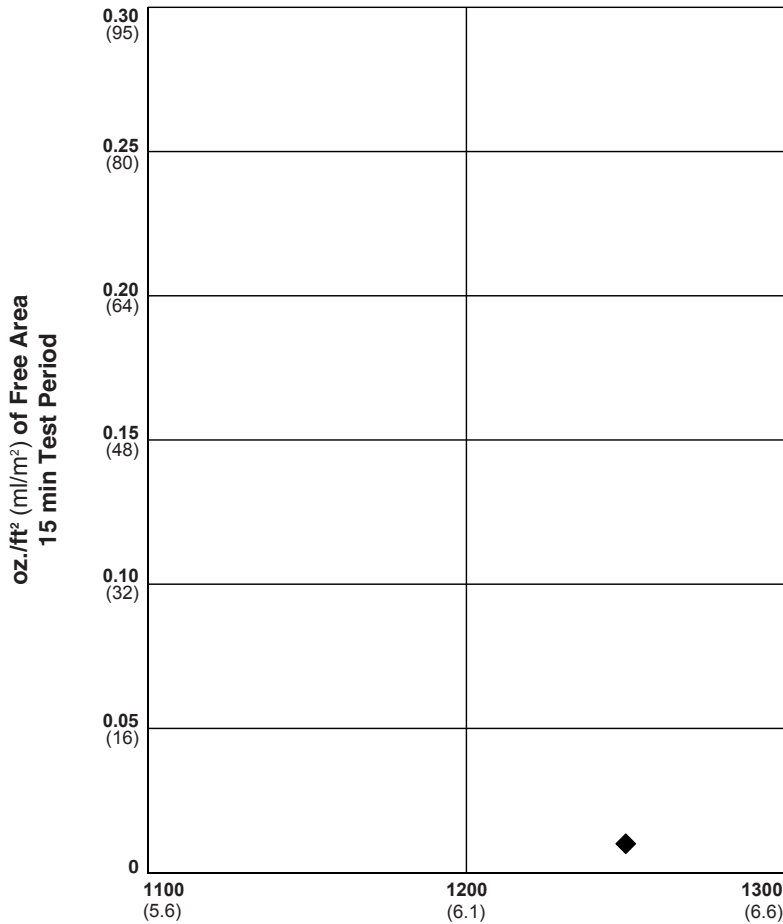
Integral structural supports shall be designed and furnished by the louver manufacturer to carry a wind load of not less than ± 150 psf (7.18 kPa).

PERFORMANCE DATA

WATER PENETRATION

Test size 48" x 48" (1219 x 1219)

Beginning point of water penetration at .01 oz./ft² is above 1250 fpm (6.4 m/s).



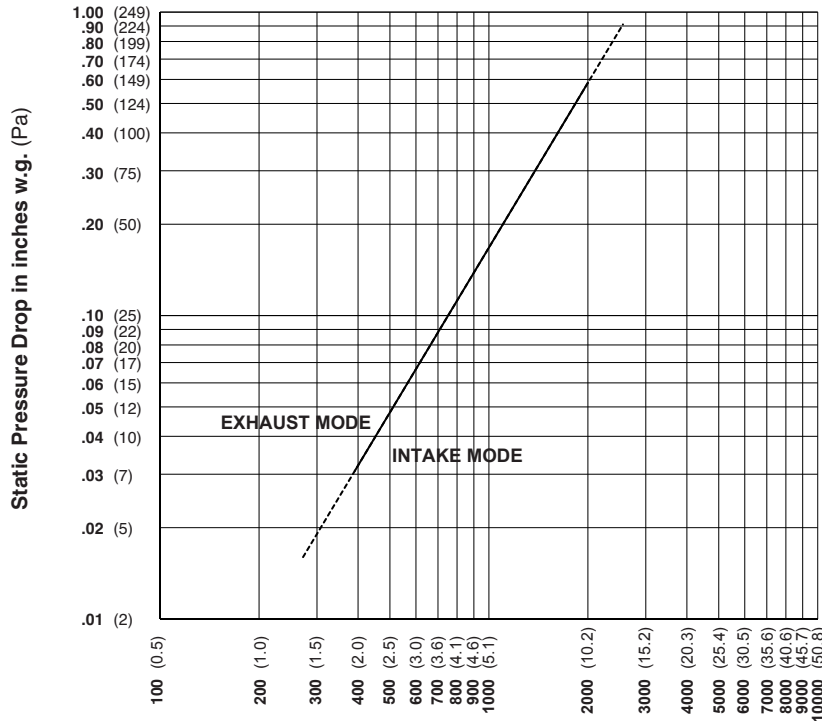
Ruskin Company certifies that the louver shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance ratings, water penetration ratings and wind driven rain ratings only.

Free Area Velocity in fpm (m/s)
Standard air .075 lb/ft³ (1.2 kg/m³)

PERFORMANCE DATA

PRESSURE DROP

Test sample size is 48" x 48" (1219 x 1219)
 Tested in accordance with ANSI/AMCA 500-L, Figure 5.5



Pressure Drop Ratings do not include the effect of a bird screen.

Air Velocity in fpm (m/s) through Free Area
 (Data corrected to standard air density)

FREE AREA GUIDE

Free Area Guide shows free area in ft² and m² for various sizes of EME6325D.
 Width – Inches and Meters

Height – Inches and Meters	12		18		24		30		36		42		48	
	ft ²	m ²	ft ²	m ²	ft ²	m ²	ft ²	m ²	ft ²	m ²	ft ²	m ²	ft ²	m ²
12	0.30	0.08	0.46	0.14	0.61	0.21	0.76	0.27	0.91	1.07	0.34	1.22	0.40	0.47
18	0.61	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04
24	0.61	0.04	0.07	0.07	0.10	0.06	0.08	0.10	0.13	0.16	0.19	0.22	0.28	0.34
30	0.76	0.05	0.10	0.10	0.14	0.14	0.18	0.23	0.23	0.27	0.32	0.39	0.47	0.56
36	0.91	0.07	0.13	0.13	0.18	0.18	0.24	0.29	0.29	0.35	0.41	0.49	0.58	0.68
42	1.07	0.09	0.15	0.15	0.22	0.22	0.29	0.36	0.36	0.43	0.50	0.59	0.69	0.80
48	1.22	0.10	0.18	0.18	0.26	0.26	0.34	0.42	0.42	0.51	0.59	0.69	0.80	0.92
54	1.37	0.12	0.21	0.21	0.30	0.30	0.40	0.49	0.49	0.58	0.68	0.79	0.91	1.04
60	1.52	0.13	0.24	0.24	0.34	0.34	0.45	0.56	0.56	0.66	0.77	0.89	1.02	1.16
66	1.68	0.14	0.25	0.25	0.36	0.36	0.48	0.59	0.59	0.70	0.81	0.94	1.08	1.23
72	1.83	0.16	0.28	0.28	0.40	0.40	0.53	0.65	0.65	0.78	0.90	1.04	1.19	1.35
78	1.98	0.17	0.31	0.31	0.44	0.44	0.58	0.72	0.72	0.86	0.99	1.14	1.30	1.47
84	2.13	0.19	0.34	0.34	0.49	0.49	0.63	0.78	0.78	0.93	1.08	1.24	1.41	1.59
90	2.29	0.20	0.36	0.36	0.53	0.53	0.69	0.85	0.85	1.01	1.17	1.34	1.52	1.71
96	2.44	0.22	0.39	0.39	0.57	0.57	0.74	0.92	0.92	1.09	1.26	1.44	1.63	1.83
102	2.59	0.23	0.42	0.42	0.61	0.61	0.79	0.98	0.98	1.17	1.35	1.54	1.74	1.95
108	2.74	0.25	0.45	0.45	0.65	0.65	0.85	1.05	1.05	1.25	1.44	1.64	1.85	2.07
114	2.90	0.26	0.48	0.48	0.69	0.69	0.90	1.11	1.11	1.32	1.54	1.75	1.97	2.20
120	3.05	0.28	0.50	0.50	0.73	0.73	0.95	1.18	1.18	1.40	1.63	1.86	2.10	2.35

WIND-DRIVEN RAIN PERFORMANCE – AMCA 500-L WIND-DRIVEN RAIN TEST

Test size is 1m x 1m (39" x 39") core area, 1.08m x 1.10m (42 1/2" x 43 1/4") nominal. Free Area of test louver is 4.69 ft² (.44m²).

Wind Velocity mph (kph)	Rain Fall Rate In./hr. (mm/hr.)	Core Velocity ₁ fpm (m/s)	Airflow cfm (m ³ /min)	Free Area Velocity ₂ fpm (m/sec.)	Effectiveness Ratio	Class _{3,4}	Discharge Loss Class ₅ Intake
29 (46.7)	3 (76)	986 (5.0)	10,615 (300)	2263 (11.5)	99.9%	A	3
50 (80.5)	8 (203)	988 (5.0)	10,641 (301)	2269 (11.5)	99.9%	A	3

NOTES

- Core area is the open area of the louver face (face area less louver frames).
Core Velocity is the airflow velocity through the Core Area of the louver (1m x 1m). 5 m/s is the maximum core velocity utilized in this test.
- Free Area of test size is calculated per AMCA standard 500-L.
- Wind Driven Rain Penetration Classes:

Class	Effectiveness	Class	Effectiveness
A	1 to .99	B	0.989 to 0.95
C	0.949 to 0.80	D	Below 0.8

- The EME6325D provides class A performance at all velocities up to and including 5 m/s core velocity.
- Discharge Loss Coefficient is calculated by dividing a louver's actual airflow rate vs. a theoretical airflow for the opening. It provides an indication of the louvers' airflow characteristics.

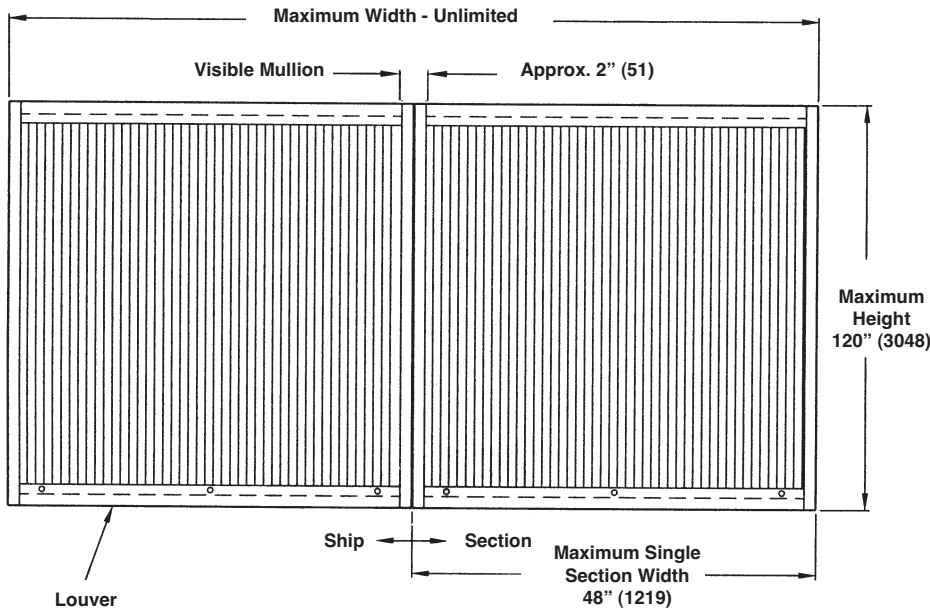
Class Discharge Loss Coefficient

1	0.4 and above
2	0.3 to 0.399
3	0.2 to 0.299
4	0.199 and below

(The higher the coefficient, the less resistance to airflow.)

The AMCA Wind Driven Rain Test is performed in a laboratory environment and incorporates controlled wind, water and system airflow effects. In actual field installations, storms may create conditions not considered by the AMCA test. Penthouse and similar applications where wind can pass through multiple louvers in an enclosure is another condition that is not simulated by AMCA tests. These applications can create elevated water penetration rates through any louver. Because of these uncontrolled situations, it is recommended that provisions to manage water penetration through louvers be included in the building design.

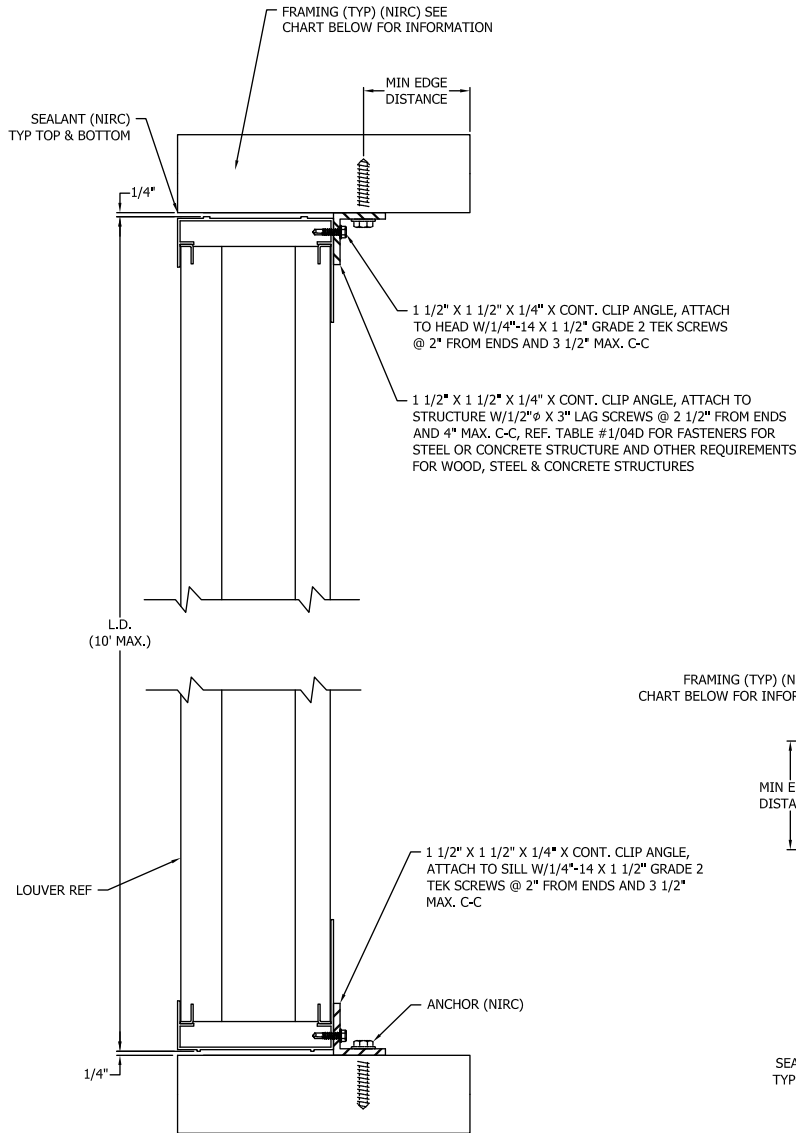
EME6325D CONSTRUCTION INFORMATION



General Notes:

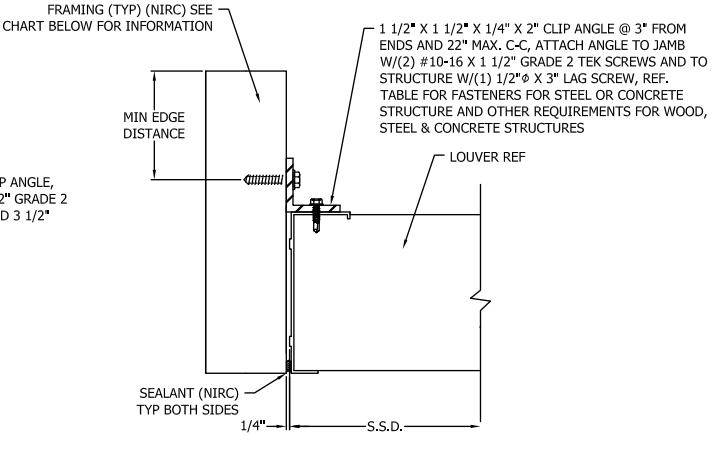
- Reference separate Installation Instruction sheets (with and without optional damper) for installation details. The installation methods indicated must be complied with for Miami-Dade Approval. It is the responsibility of the installing contractor to properly install the louvers per the appropriate detail.
- On special orders, Ruskin may provide submittal and/or shop drawings. Reference these drawings for additional installation information.
- Louvers wider than the maximum single section width will be shipped in multiple sections and will require field assembly. Field assembly is not by Ruskin.
- Installation channels are shipped loose.

EME6325D CONSTRUCTION INFORMATION



NOTES:

1. The installation shown herein must be followed strictly to ensure compliance with Miami-Dade and Florida Approvals.
2. Aluminum clip angles and #10 screws shown above are provided by Ruskin. Anchors for connection to structure are not provided by Ruskin.
3. Ruskin is not responsible for determining the suitability of the structure, or for gaining approval for non-compliant installations.
4. Shims may be required to achieve consistent clearance between louver and opening on all sides. Shims are not provided by Ruskin.
5. Backer rod and sealant are not provided by Ruskin.
6. NIRC = Not in Ruskin's Contract.



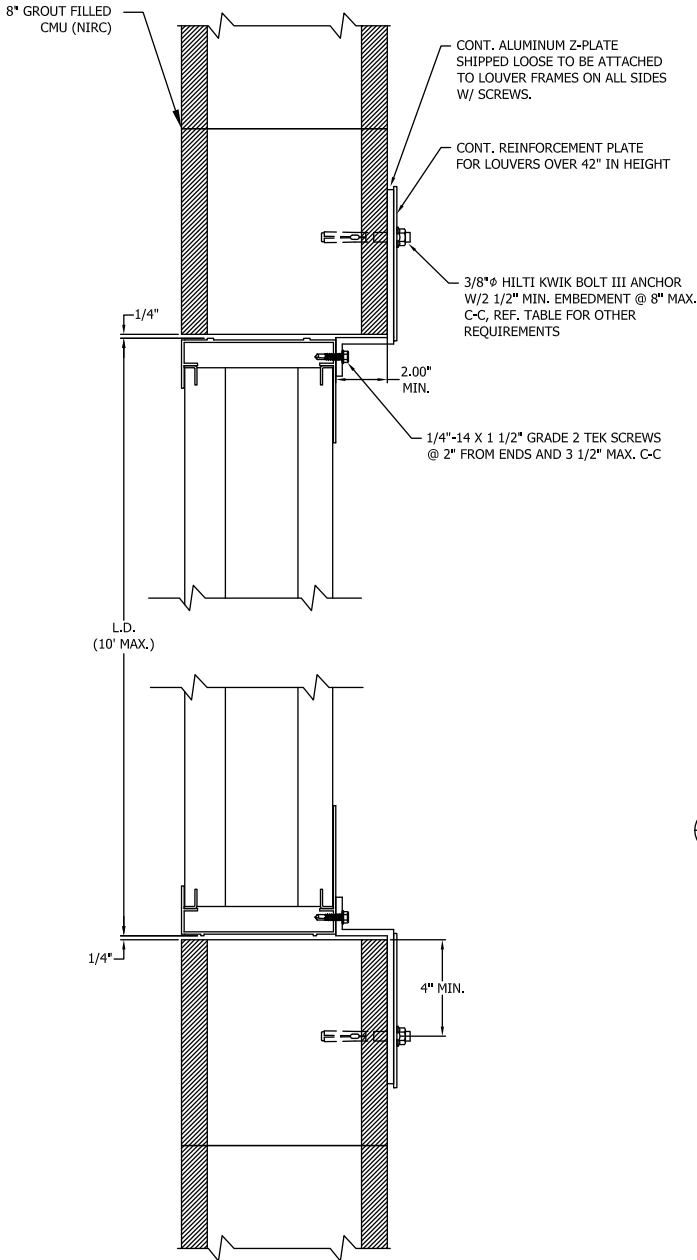
1 HEAD & SILL DETAIL
 - N.T.S.
 ALTERNATE STRUCTURE - CONCRETE, STEEL FRAME

2 JAMB DETAIL
 - N.T.S.
 ALTERNATE STRUCTURE - CONCRETE, STEEL FRAME

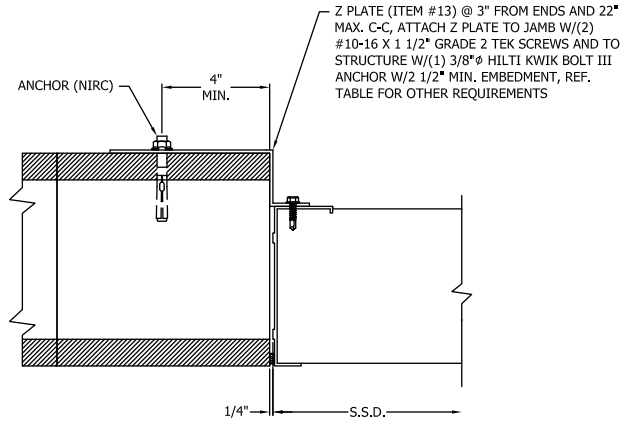
APPROVED ATTACHMENTS						
STRUCTURE	CONNECTION TYPE	ANGLE SLOT WIDTH	SPACING	MINIMUM EMBEDMENT	MINIMUM EDGE DIST.	END DIST.
(12 GA MIN.) STEEL FRAMING	1/4" Ø A307 BOLT OR 1/4" - 14 GRADE 2 SDS	5/16"	3 1/2" MAX. C-C	N/A	1/2"	2 1/2"
(4" MIN.) CONCRETE (4000 PSI MIN.)	3/8" Ø HILTI KB TZ ANCHOR	7/16"	6" MAX. C-C	2"	3"	3"
GROUT FILLED CMU	3/8" Ø HILTI KB III ANCHOR	7/16"	8" MAX. C-C	2 1/2"	4"	4" MIN.
(2 - 2 X 10) WOOD FRAMING (MIN. S.G.=0.55)	1/2" Ø X 3" A307 LAG SCREW	9/16"	4" MAX. C-C	3"	2 1/2"	2 1/2"

NOTE: ALL FASTENERS MUST BE INSTALLED PER THE MANUFACTURER'S MIAMI-DADE COUNTY APPROVED INSTRUCTIONS

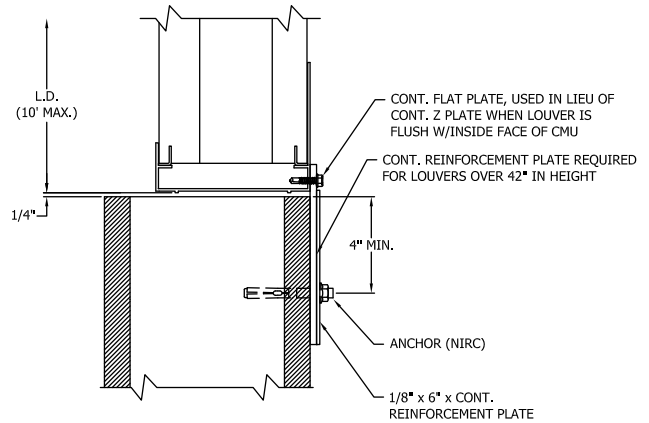
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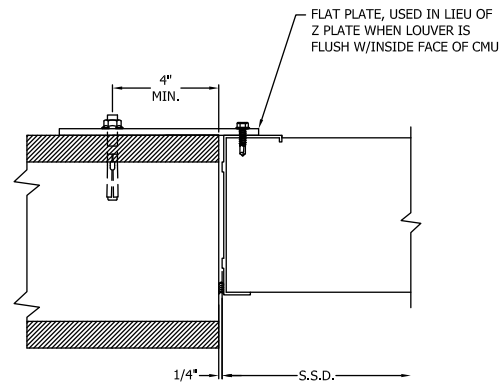
3 HEAD & SILL DETAIL: GROUT FILLED CMU
N.T.S.
FOR Z- PLATE REF. PART DETAIL 17/4



4 JAMB DETAIL: GROUT FILLED CMU
N.T.S.
FOR Z- PLATE REF. PART DETAIL 18/4



5 HEAD & SILL DETAIL: GROUT FILLED CMU
N.T.S.



6 JAMB DETAIL: GROUT FILLED CMU
N.T.S.