



**DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION  
NOTICE OF ACCEPTANCE (NOA)**

**MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION**  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**S&P Air Control, LLC  
3005 South Hickory Street  
Chattanooga, TN 37407**

**SCOPE:** This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ). This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Model FL-D-6 Aluminum Louver System**

**APPROVAL DOCUMENT:** Drawing No. **25-059**, titled "Aluminum Louver System Model FL-D-6, sheets 1 through 16 of 16, dated 07/07/2025, prepared by Tilteco, Inc, signed and sealed by Walter A. Tillit, Jr., P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**LIMITATION:** This louver has not been evaluated for compliance with the impact testing standard ANSI/AMCA 540.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews and revises NOA # 23-0726.11** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



09/18/25

**NOA No. 25-0805.05**  
**Expiration Date: January 17, 2027**  
**Approval Date: September 25, 2025**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's**

**A. DRAWINGS “Submitted under NOA # 15-0420.04”**

1. Drawing No. **15-025**, titled “Aluminum Louver System Model FL-D-6, sheets 1 through 15 of 15, dated 03/16/2015, prepared by Tilteco, Inc, signed and sealed by Walter A. Tillit, Jr., P.E. on 03/31/2015.

**B. TESTS “Submitted under NOA # 11-0104.03”**

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
Along with marked-up drawings and installation diagram of a Model FLD-4 Aluminum Louver System, prepared by American Test Lab of South Florida, Test Report No. **1207.01-10**, dated 12/22/2010, signed and sealed by Julio E. Gonzalez, P.E.

**C. CALCULATIONS “Submitted under NOA # 15-0420.04”**

1. Revision to aluminum louver system Model FL-D-6 prepared by Tilteco Inc, dated 03/16/2015, signed and sealed by Walter A. Tillit Jr., P.E.  
  
**“Submitted under NOA # 11-0104.03”**
2. Revision to aluminum louver system Model FL-D-6 prepared by Tilteco Inc, dated 12/09/2014, signed and sealed by Walter A. Tillit Jr., P.E.  
  
**“Submitted under NOA # 08-0902.09”**
3. Revision to Aluminum Louver System Model FL-D-6, prepared by Tilteco Inc, dated 08/21/2008, sheets 1 through 134 of 134, complying with F.B.C. 2007, signed and sealed by Walter A. Tillit Jr., P.E.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS “Submitted under NOA # 11-0104.03”**

1. Test report on Tensile Test per ASTM E8, issued by QC Metallurgical, Inc., dated 12/21/2010, signed and sealed by Frank E. Grate Jr., P.E.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 25-0805.05**  
**Expiration Date: January 17, 2027**  
**Approval Date: September 25, 2025**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS “Submitted under NOA # 15-0420.04”**

1. Statement letter of code conformance to the 5<sup>th</sup> edition (2014) FBC issued by Tilteco, Inc, dated 03/31/2015, signed and sealed by Walter A. Tillit Jr., P.E.

**“Submitted under NOA # 12-0120.06”**

2. Statement letter of code conformance to 2010 FBC issued by Tilteco, Inc, dated 01/16/2012, signed and sealed by Walter A. Tillit Jr., P.E.

**“Submitted under NOA # 11-0104.03”**

2. Statement letter of no financial interest issued by Tilteco, Inc, dated 12/23/2010, signed and sealed by Walter A. Tillit Jr., P.E.

**2. EVIDENCE SUBMITTED UNDER NOA #17-0823.07**

**A. DRAWINGS**

1. Drawing No. 17-127, titled “Aluminum Louver System Model FL-D-6”, sheets 1 through 15 of 15, dated 08/02/2017, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. Revision to aluminum louver system Model FL-D-6 prepared by Tilteco Inc., dated 08/15/2017, signed and sealed by Walter A. Tillit Jr., P.E.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letter of code conformance to 6<sup>th</sup> Edition (2017) FBC, issued by Tilteco, Inc., dated 08/02/2017, signed and sealed by Walter A. Tillit Jr., P.E.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 25-0805.05**  
**Expiration Date: January 17, 2027**  
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**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. EVIDENCE SUBMITTED UNDER NOA # 20-0115.04**

**A. DRAWINGS**

1. Drawing No. **17-127**, titled “Aluminum Louver System Model FL-D-6, sheets 1 through 15 of 15, dated 08/02/2017, with revision dated 11/08/2019, prepared by Tilteco, Inc, signed and sealed by Walter A. Tillit, Jr., P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Letter requesting the company name change from “United Enertech Corp.” to its parent company, “United Enertech Holdings, LLC”, issued by Winstead PC, dated 01/31/2020, signed by Andrew J. Ostapko, Attorney.
2. Certificate of merger between “United Enertech Corp.” and “Enertech Acquisition Corp.”, issued by the State of Delaware, dated 01/04/2017.
3. Amended and restated certificate of incorporation of “United Enertech Corp.” (F/K/A “Enertech Acquisition Corp.”, issued by the State of Delaware, dated 12/30/2016.
4. Certificate of formation of “United Enertech Holdings, LLC”, issued by the State of Delaware, dated 12/02/2016.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 25-0805.05**  
**Expiration Date: January 17, 2027**  
**Approval Date: September 25, 2025**

**NOTICE OF ACCEPTANC: EVIDENCE SUBMITTED**

**4. EVIDENCE SUBMITTED UNDER NOA # 23-0726.11 AND NEW**

**A. DRAWINGS**

1. Drawing No. **25-059**, titled “Aluminum Louver System Model FL-D-6, sheets 1 through 16 of 16, dated 07/07/2025, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letter of code conformance to 8<sup>th</sup> Edition (2023) of the FBC, issued by Tilteco, Inc., dated 07/07/2025, signed and sealed by Walter A. Tillit Jr., P.E.
2. Amended Sales Agreement made on April 8<sup>th</sup>, 2024 by S&P Air Control, LLC.
3. Testing proposal, issued by PRI Construction Materials Technologies LLC, dated 09/09/2025.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 25-0805.05**  
**Expiration Date: January 17, 2027**  
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**GENERAL NOTES:**

1. ALUMINUM LOUVER SYSTEM SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE **2022 (8th EDITION) AND 2020 (7th EDITION)** OF THE FLORIDA BUILDING CODE. THIS PRODUCT MAY BR INSTALLED WITHIN HIGH VELOCITY HURRICANE ZONES (H.V.H.Z).

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION **1620** OF THE ABOVE MENTIONED CODE, USING **ASCE 7-22 (FBC 2023) AND ASCE 7-16 (FBC 2020)** AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON THIS SHEET.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER **ASCE 7-22 & ASCE 7-16** SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON THIS SHEET.

IN ORDER TO VERIFY THAT COMPONENTS AND ANCHORS ON THIS P.A.D AS TESTED WERE NOT OVER STRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS **NOT** USED IN THEIR ANALYSIS, A DURATION FACTOR CD=1.60 WAS USED FOR VERIFICATION OF FASTENERS SPACINGS IN WOOD, PER N.D.S. 2018.

ALUMINUM LOUVER SYSTEM'S ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION **1626** OF THE ABOVE MENTIONED CODE AS PER AMERICAN TESTING LAB OF SOUTH FLORIDA REPORTS # 0604.01-01 AND 1207.01-10 AS PER TAS-201, TAS-202 & TAS-203 PROTOCOLS, AS WELL AS PER ANSI/AMCA IMPACT STANDARD 540, PER INTERTEK/ARCHITECTURAL TESTING REPORT # E 0370.01-550-18.

2. ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 ALLOY (UNLESS OTHERWISE NOTED). ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 & 2015 ALUMINUM DESIGN MANUAL.

3. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 SERIES W/ 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018. THRU BOLTS AT MULLION TO BE ASTM A-307 GALVANIZED STEEL OR AISI 304 SERIES STAINLESS STEEL SCREWS AND BOLTS SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.

4. ALL ALUMINUM COMPONENTS FRAMING SHALL BE WELDED IN ACCORDANCE WITH AWS D1.2 ,PER THE AMERICAN WELDING SOCIETY LATEST EDITION REGULATIONS USE CERTIFIED WELDERS. USE ER-5356 ELECTRODES.

5. JAMB ANCHOR REQUIREMENTS: EMBEDMENT AND EDGE DISTANCE ARE BEYOND ANY FINISH.  
 (A) TO EXISTING POURED CONCRETE: (MIN.  $f'c = 3192$  psi), MIN. EDGE DISTANCE (E.D.) = 2 1/2".  
 - 1/4"Ø TAPCON ANCHORS W/ 1 3/4" MIN. EMBEDMENT, AS MANUFACTURED BY ITW BUILDEX.

(B) TO EXISTING A.S.T.M. C-90 CONCRETE BLOCK WALL. MIN. EDGE DISTANCE (E.D.) = 2 1/2".  
 - 1/4"Ø TAPCON ANCHORS W/ 1 1/4" MIN. EMBEDMENT, AS MANUFACTURED BY ITW BUILDEX.

(C) TO EXISTING 2x P.T. WOOD BUCK. MIN. EDGE DISTANCE (E.D.) = 1 1/2".  
 - 1/4"Ø LAG SCREWS W/ 1 1/2" MIN. EMBEDMENT, AS PER N.D.S. 2015

(D) TO EXISTING MIN. 1/8" THICK STEEL MEMBER (ASTM A-500, A-653 OR A-36) MIN. EDGE DISTANCE (E.D.) = 1/2".  
 - 1/4"Øx3/4", AS MANUFACTURED BY ITW BUILDEX.

(E) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.

6. ANCHORS REQUIRED FOR MULLION CONNECTIONS SHALL BE AS SPECIFIED ON APPLICABLE SECTIONS SHOWN ON SHEETS 13, 14 & 15.

ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.

7. THIS LOUVER SHALL BE ONLY INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVER IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM, AND THE ROOM WILL HOUSE WATER RESISTENT/WATER PROOF EQUIPMENT, COMPONENTS OR SUPPLIES.

8. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE LOUVER SYSTEM IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE.

9. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE. WOOD BUCKS MUST BE SOUTHERN PINE, G = 0.55.

10. (A) THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.

(B) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION INCLUDING LIFE SAFETY, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT APPROVAL PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(C) THIS PRODUCT APPROVAL DOCUMENT WILL BE CONSIDERED INVALID IF MODIFIED.

(D) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE PROFESSIONAL OF RECORD (P.O.R) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D.

(E) ORIGINAL P.A.D SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OR RECORD THAT PREPARED IT.

11. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1703.5 OF FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

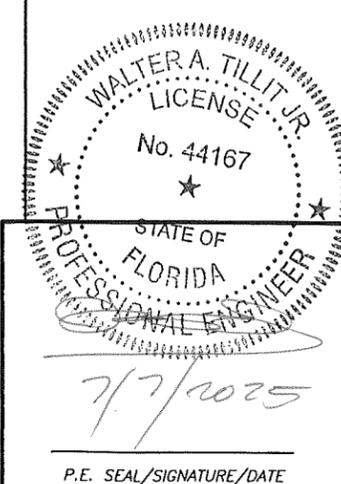
**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 NOA-No. 25-0805.05

Expiration Date 01/17/2027

By   
 Miami-Dade Product Control

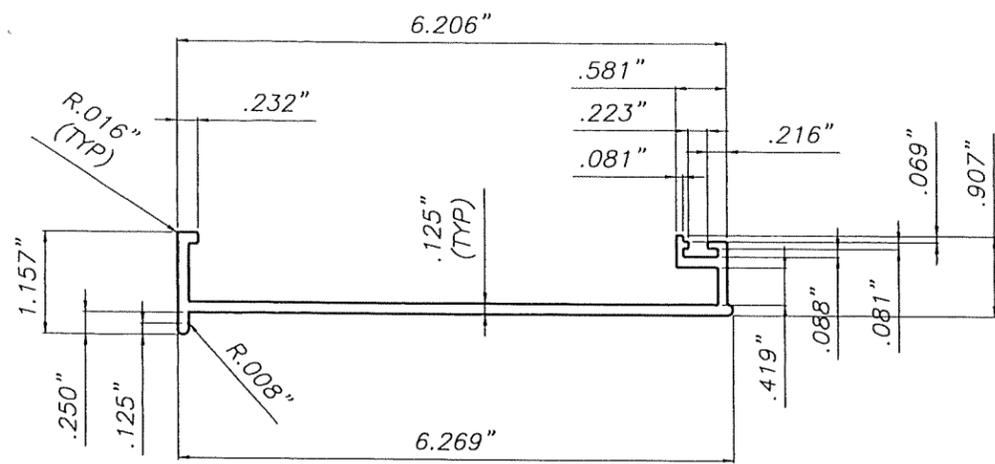
**MAXIMUM A.S.D. DESIGN PRESSURE RATING +150.0, -150.0 psf. LARGE MISSILE IMPACT RESISTANCE.**

**THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA**

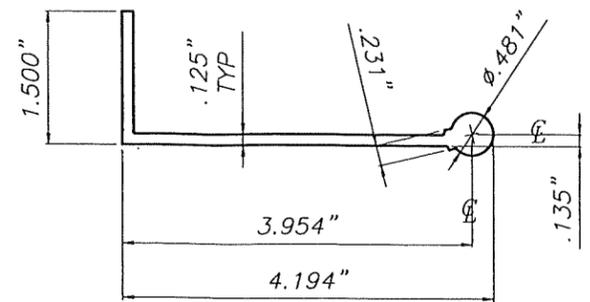


**FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)**

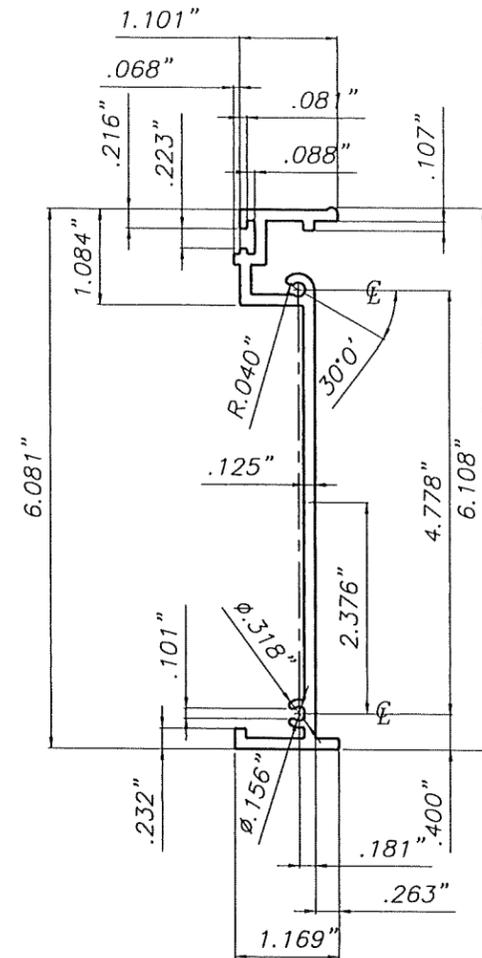
© 2025 TILTECO, INC		<b>ALUMINUM LOUVER SYSTEM MODEL FL-D-6</b>		W.H. DRAWN BY																	
 <b>TILTECO Inc.</b> TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530, Fax : (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167		<b>S&amp;P AIR CONTROL, LLC.</b> 3005 SOUTH HICKORY ST. 159 GENCO DRIVE CHATTANOOGA, TN 37407 HARTFORD, AL 36344 PHONE: (423)698-7715 FAX:(423)698-6629		7/7/2025 DATE																	
		<table border="1"> <thead> <tr> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>OLD 23-074</td> <td>7/7/25</td> <td>3</td> <td>-</td> <td>-</td> </tr> <tr> <td>2</td> <td>-</td> <td>-</td> <td>4</td> <td>-</td> <td>-</td> </tr> </tbody> </table>		REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	OLD 23-074	7/7/25	3	-	-	2	-	-	4	-	-
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE																
1	OLD 23-074	7/7/25	3	-	-																
2	-	-	4	-	-																
				SHEET 1 OF 16																	



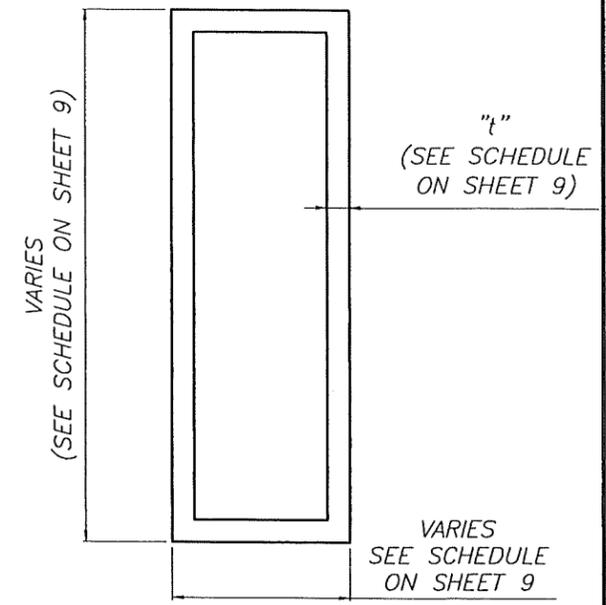
**1 6" TOP BLADE**  
SCALE: 3/8"=1"



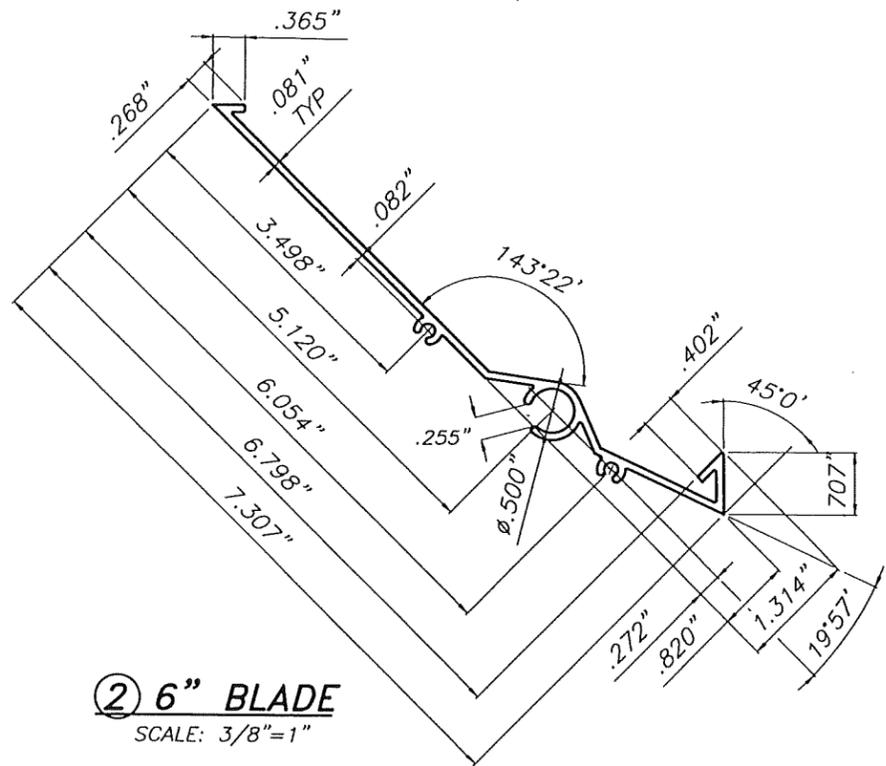
**3 6" BLADE SUPPORT**  
SCALE: 3/8"=1"



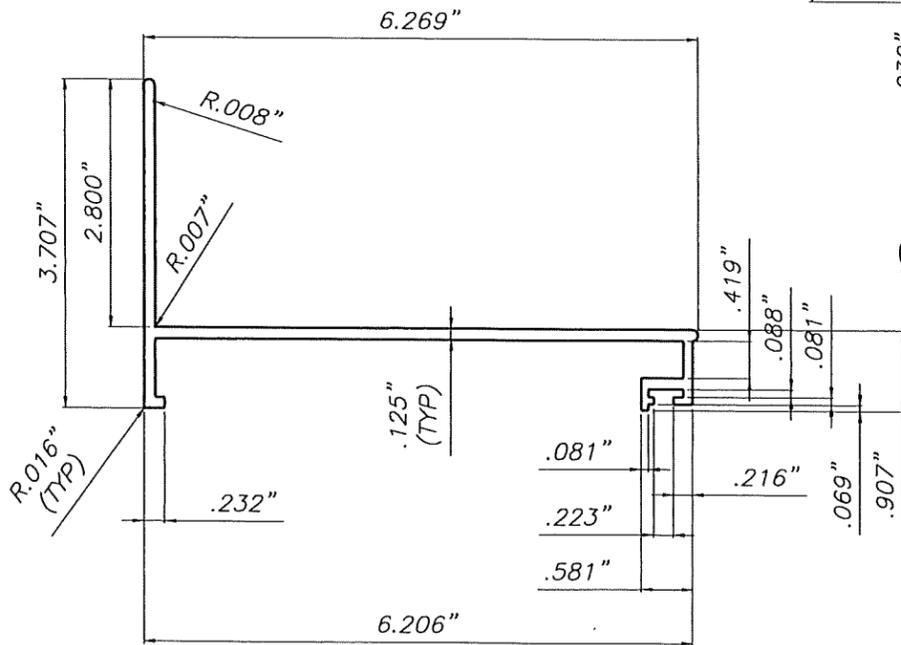
**5 6" SIDE JAMB**  
SCALE: 3/8"=1"



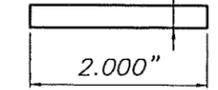
**7 MULLION**  
6063-T6 ALLOY  
SCALE: 3/8"=1"



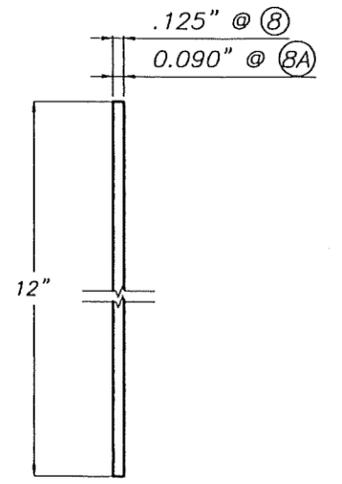
**2 6" BLADE**  
SCALE: 3/8"=1"



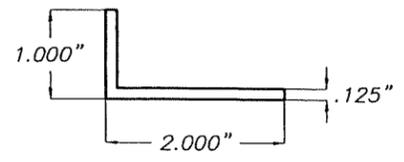
**4 6" BOTTOM BLADE**  
SCALE: 3/8"=1"



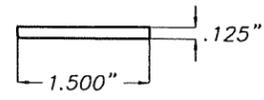
**6 LOUVER IMPACT STRAP**  
6463-T6 ALLOY  
SCALE: 3/8"=1"



**8 & 8A ALUMINUM SLEEVES**  
(OPTIONAL)  
3003-H14 ALLOY



**9 JAMB ANGLE**



**10 HORIZONTAL MULLION STRIP**

**COMPONENTS**

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 25-0805.05  
Expiration Date 01/17/2027  
By *[Signature]*  
Miami-Dade Product Control

WALTER A. TILLIT JR.  
LICENSE  
No. 44167  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
P.E. SEAL/SIGNATURE/DATE

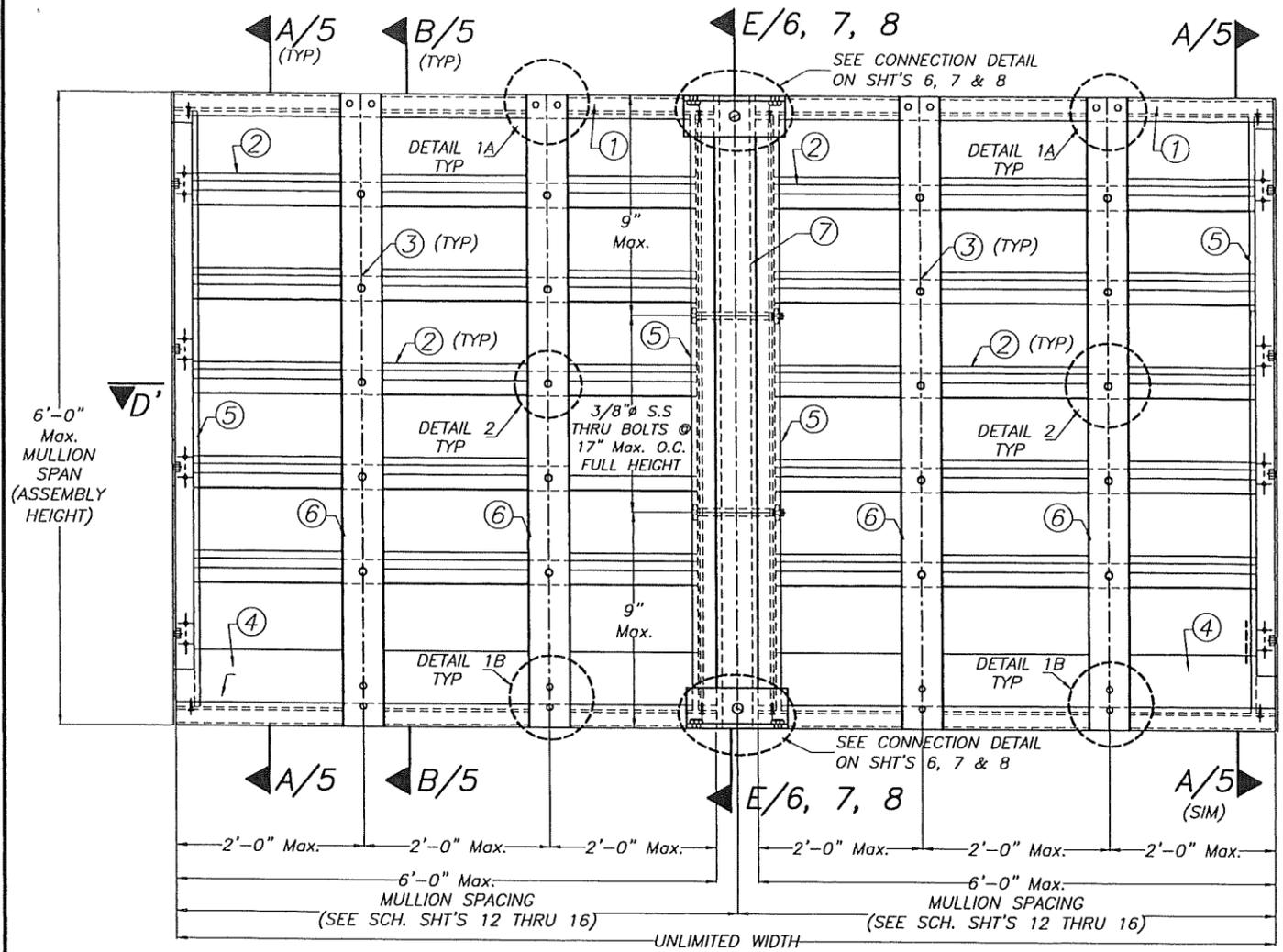
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

© 2025 TILTECO, INC.  
**TILTECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166  
Phone: (305)871-1530. Fax: (305)871-1531  
e-mail: [tilteco@aol.com](mailto:tilteco@aol.com)  
CA-0006719  
WALTER A. TILLIT Jr. P.E.  
FLORIDA Lic. # 44167

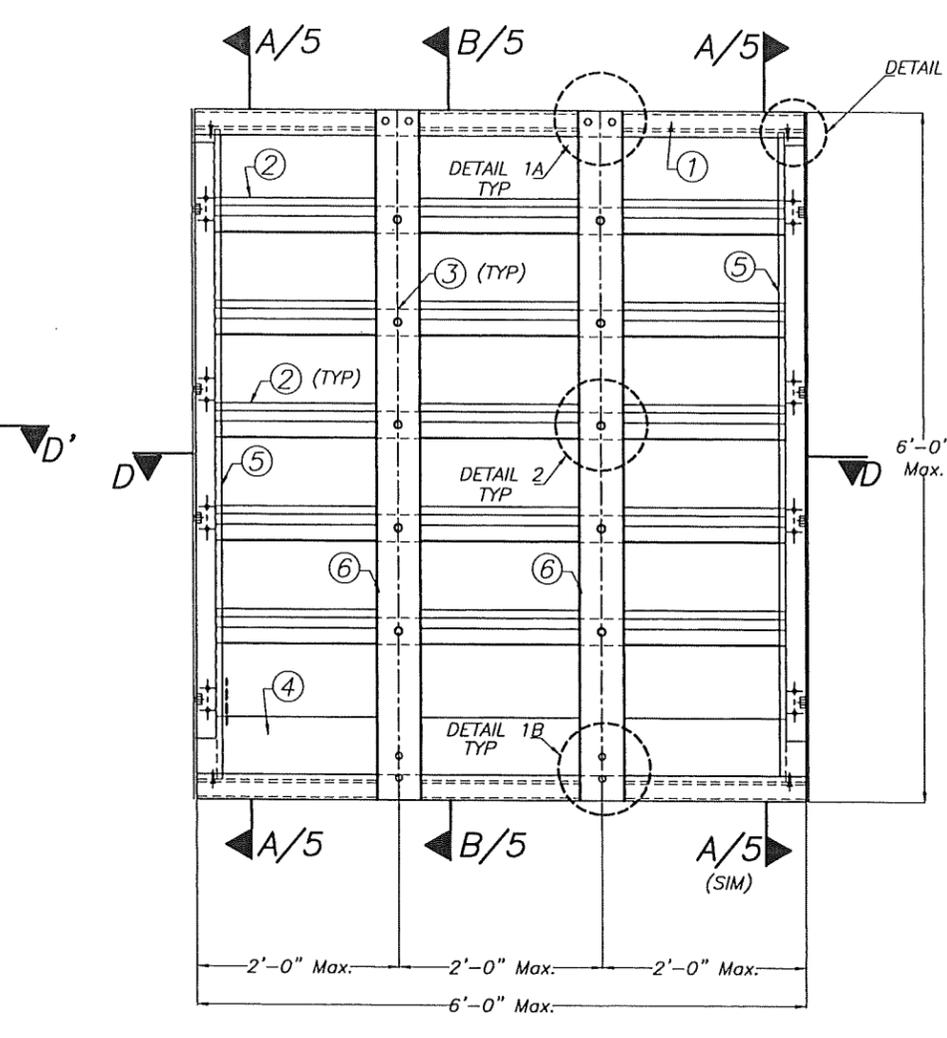
**ALUMINUM LOUVER SYSTEM MODEL FL-D-6**  
**S&P AIR CONTROL, LLC.**  
3005 SOUTH HICKORY ST. 159 GENCO DRIVE  
CHATTANOOGA, TN 37407 HARTFORD, AL 36344  
PHONE: (423)698-7715 FAX:(423)698-6629

W.H. DRAWN BY  
7/7/2025 DATE  
**25-059** DRAWING No  
SHEET 2 OF 16

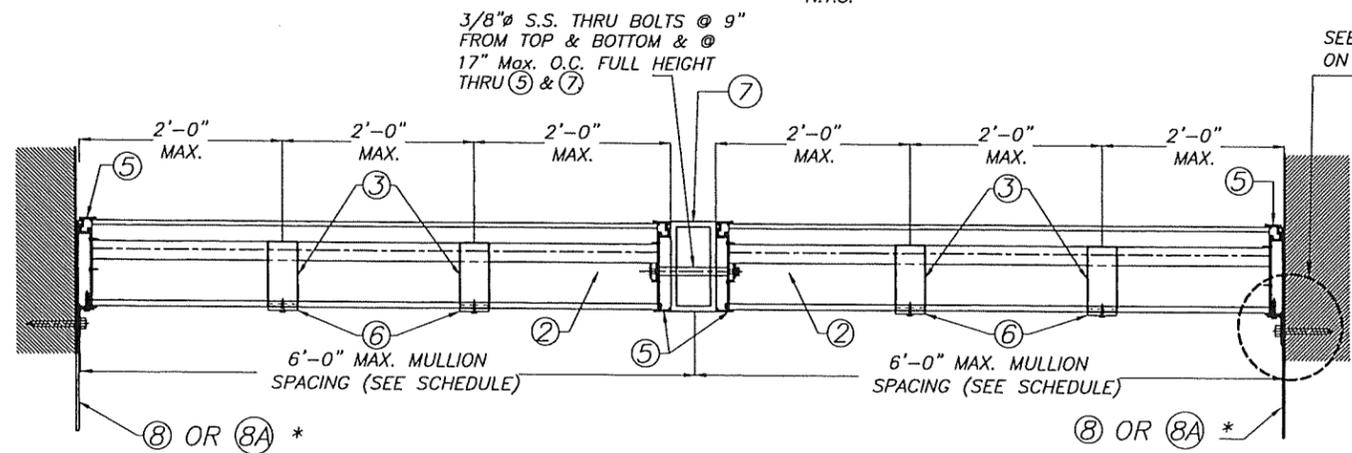
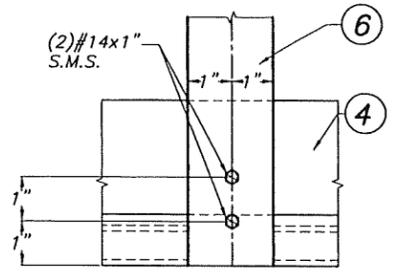
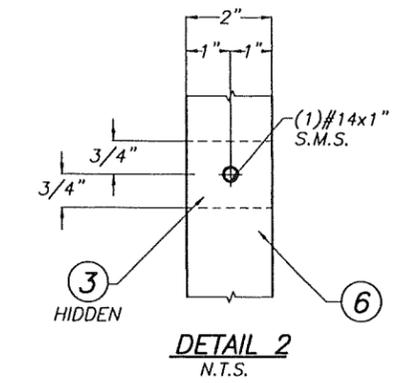
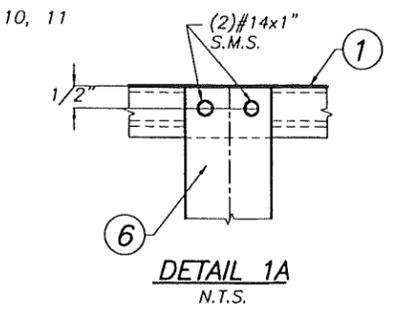
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-074	7/7/25	3	-	-
2	-	-	4	-	-



**MULTIPLE UNITS HORIZONTALLY EXPANDED (INTERIOR ELEVATION)**  
N.T.S.



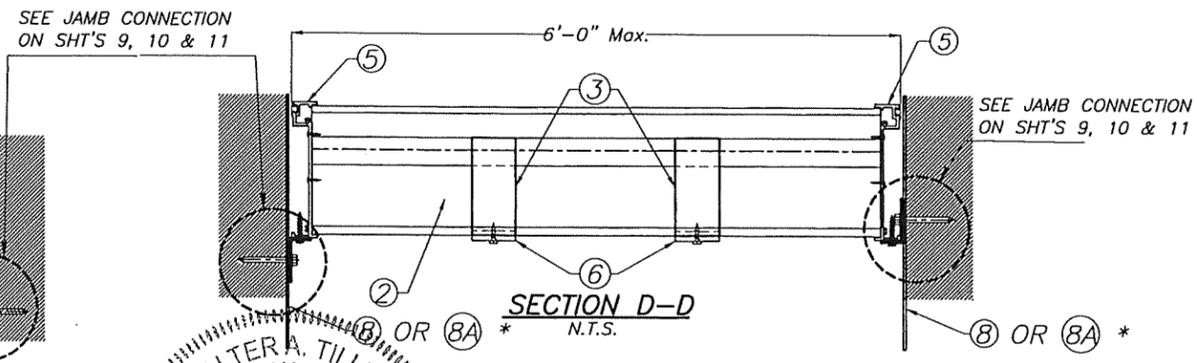
**SINGLE UNIT (INTERIOR ELEVATION)**  
N.T.S.



**SECTION D'-D'**  
N.T.S.

\* (8) OR (8A) ARE OPTIONAL

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 25-0805.05  
Expiration Date 01/17/2027  
By *[Signature]*  
Miami-Dade Product Control



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

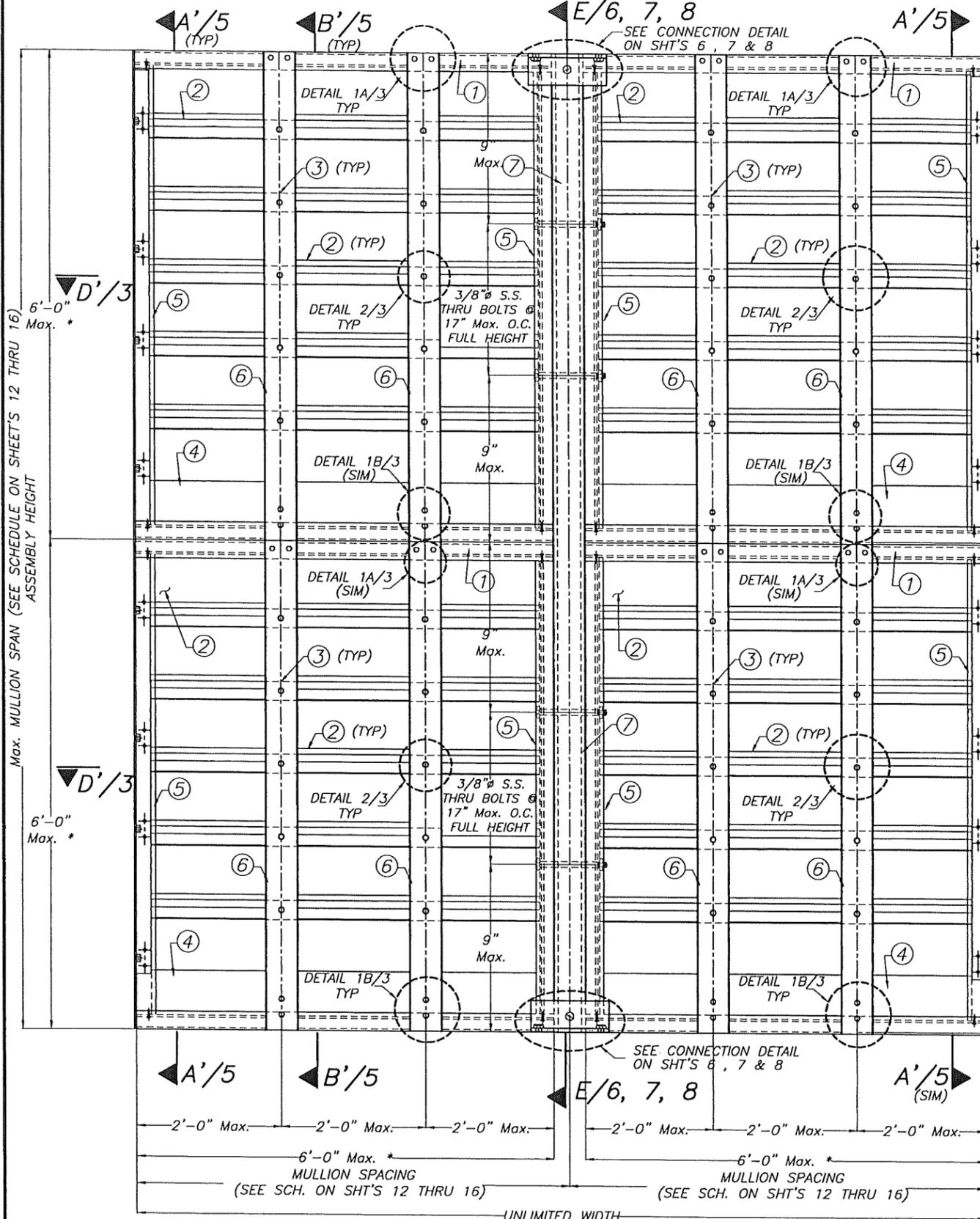
WALTER A. TILLIT JR.  
LICENSE  
No. 44167  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
P.E. SEAL/SIGNATURE/DATE

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6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166  
Phone: (305)871-1530. Fax: (305)871-1531  
e-mail: tilteco@aol.com  
CA-0006719  
WALTER A. TILLIT JR. P.E.  
FLORIDA Lic. # 44167

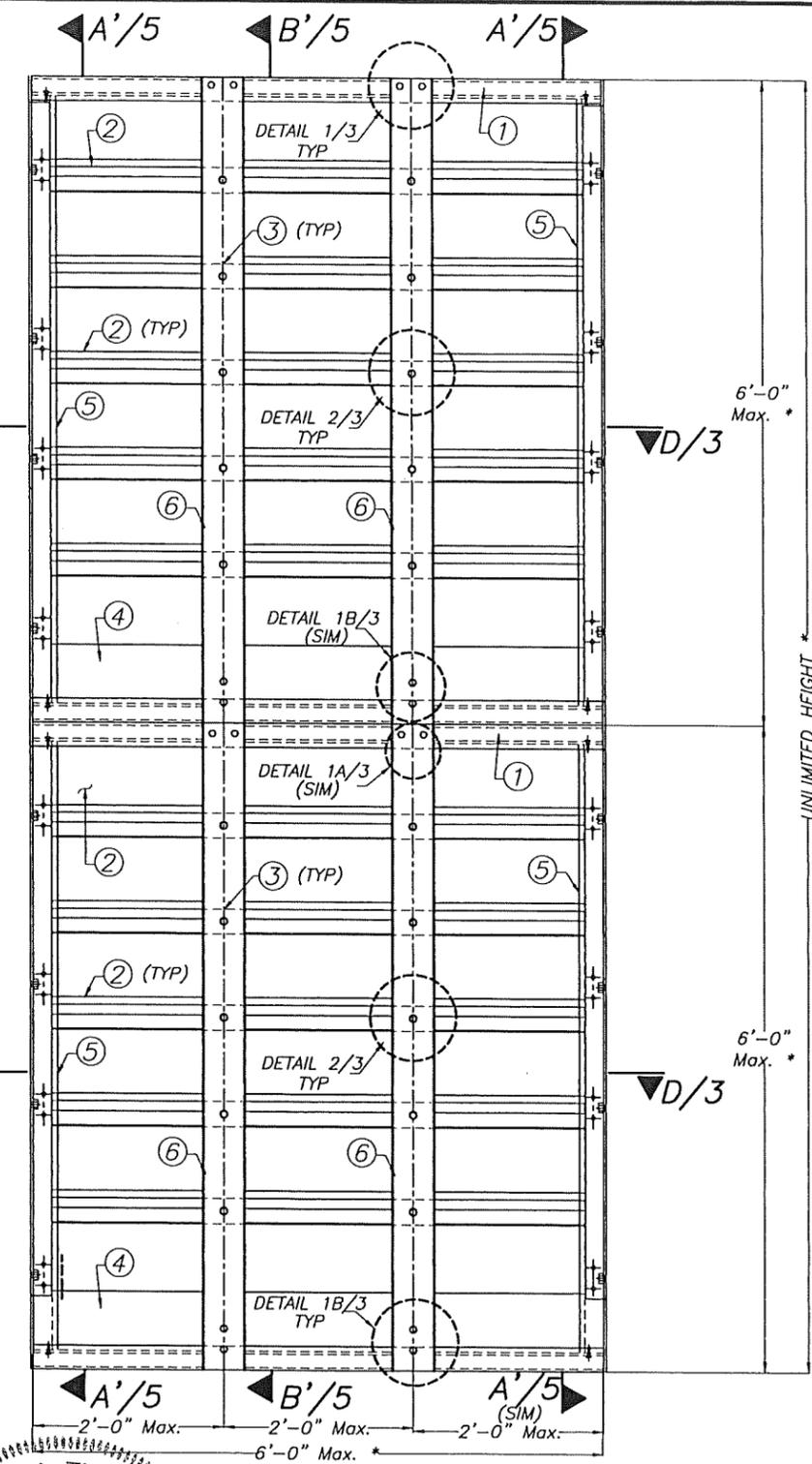
**ALUMINUM LOUVER SYSTEM**  
MODEL FL-D-6  
**S&P AIR CONTROL, LLC.**  
3005 SOUTH HICKORY ST. 159 GENCO DRIVE  
CHATTANOOGA, TN 37407 HARTFORD, AL 36344  
PHONE: (423)698-7715 FAX: (423)698-6629

W.H.  
DRAWN BY  
7/7/2025  
DATE  
**25-059**  
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-074	7/7/25	3	-	-
2	-	-	4	-	-



**MULTIPLE UNITS HORIZONTALLY & VERTICALLY EXPANDED (INTERIOR ELEVATION)**  
N.T.S.

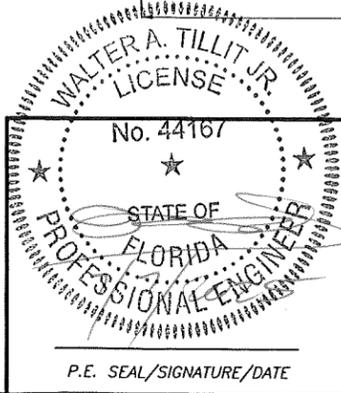


\* NUMBER OF LOUVER PANEL UNITS NEEDED TO ACHIEVE THE OPENING HEIGHT AND WIDTH MAY VARY HOWEVER MAXIMUM UNIT HEIGHT AND WIDTH SHALL NO EXCEED 6'-0".

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as complying with the Florida Building Code  
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**SINGLE UNIT (INTERIOR ELEVATION)**  
N.T.S.

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

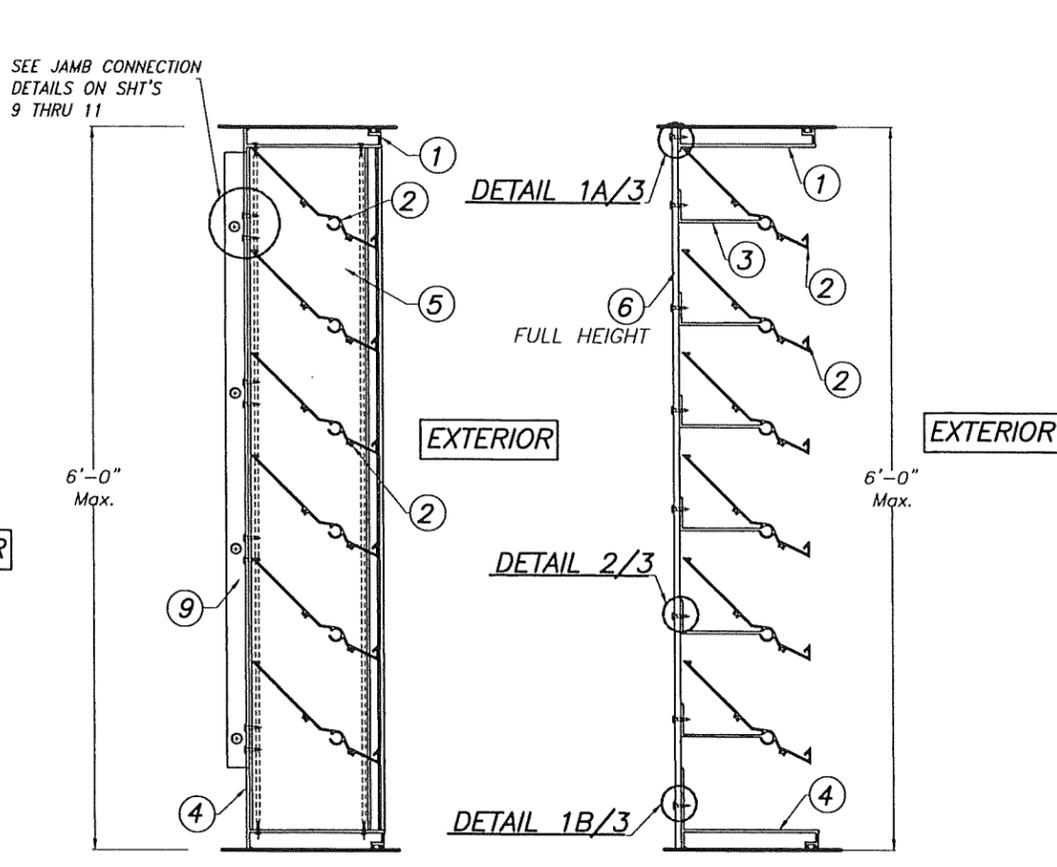
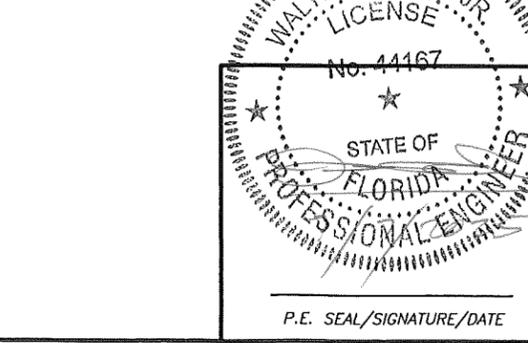
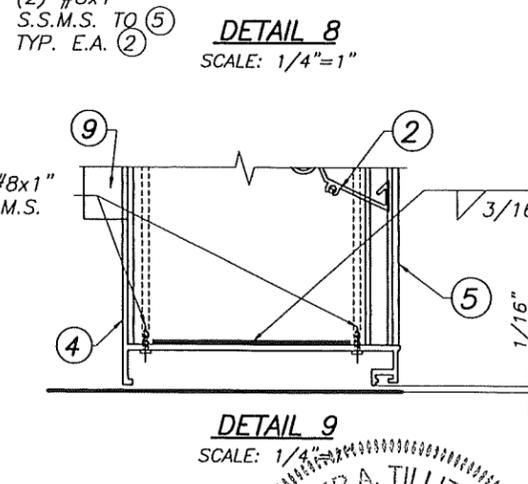
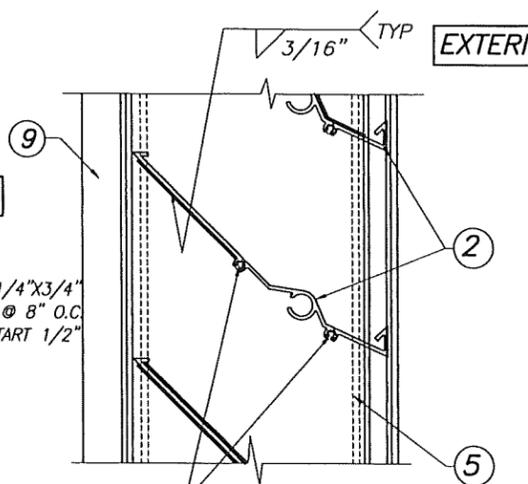
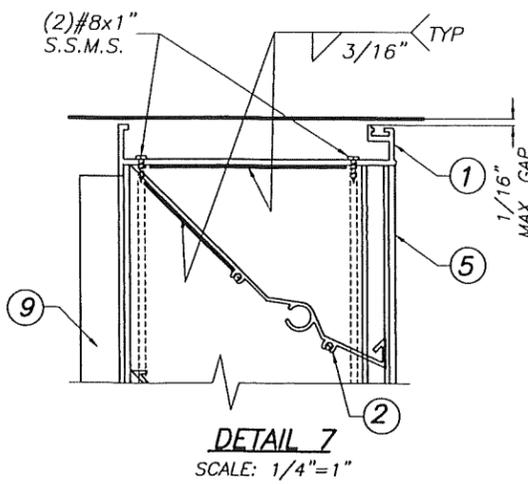
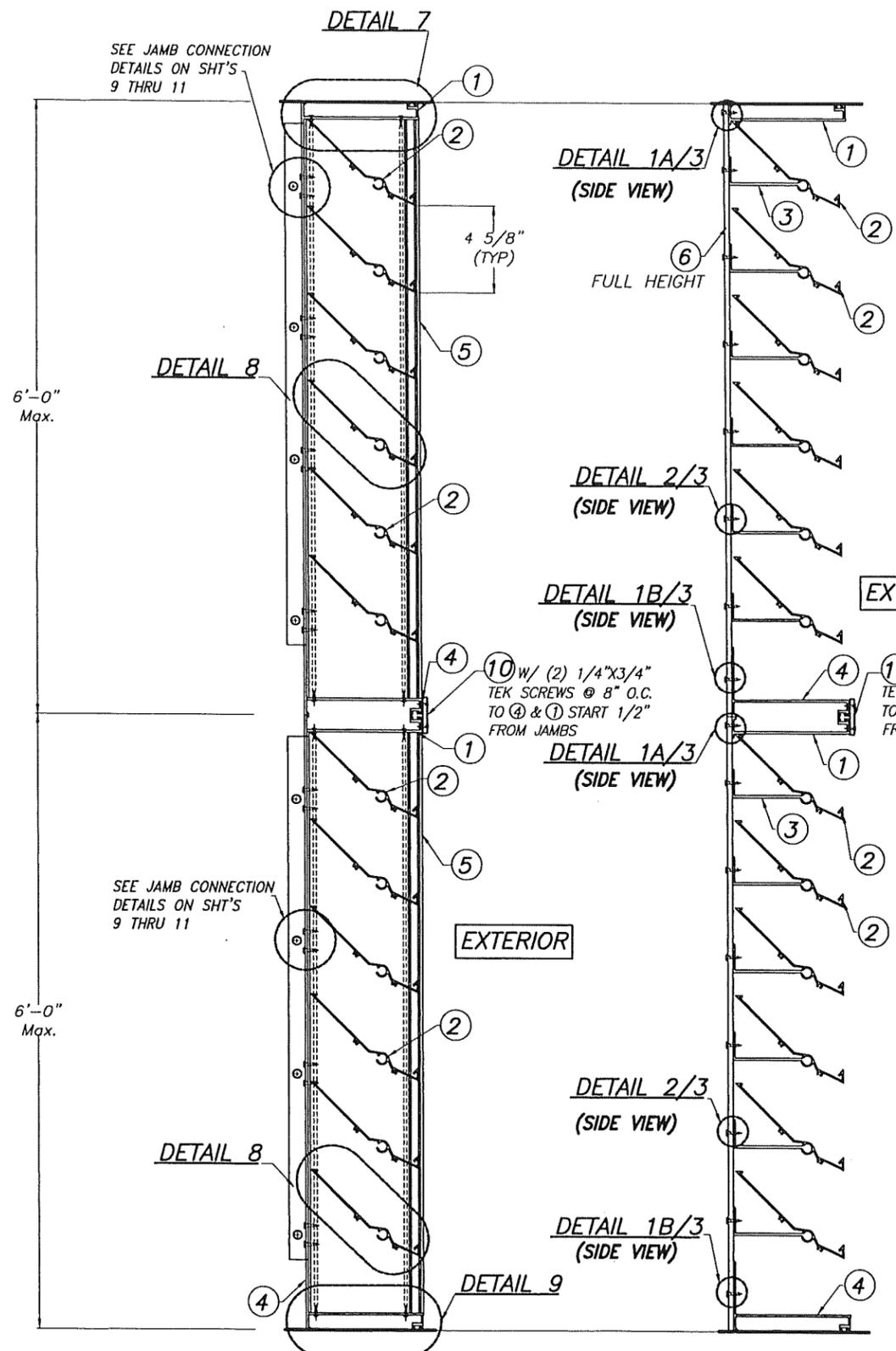


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CA-0006719  
WALTER A. TILLIT Jr., P.E.  
FLORIDA Lic. # 44167

**ALUMINUM LOUVER SYSTEM MODEL FL-D-6**  
**S&P AIR CONTROL, LLC.**  
3005 SOUTH HICKORY ST. CHATTANOOGA, TN 37407  
159 GENCO DRIVE HARTFORD, AL 36344  
PHONE: (423)698-7715 FAX: (423)698-6629

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-074	7/7/25	3	-	-
2	-	-	4	-	-

W.H. DRAWN BY  
7/7/2025 DATE  
**25-059** DRAWING No  
SHEET 4 OF 16



**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 NOA-No. 25-0805.05  
 Expiration Date 01/17/2027  
 By *[Signature]*  
 Miami-Dade Product Control

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

WALTER A. TILLIT JR.  
 LICENSE  
 No. 44167  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 P.E. SEAL/SIGNATURE/DATE

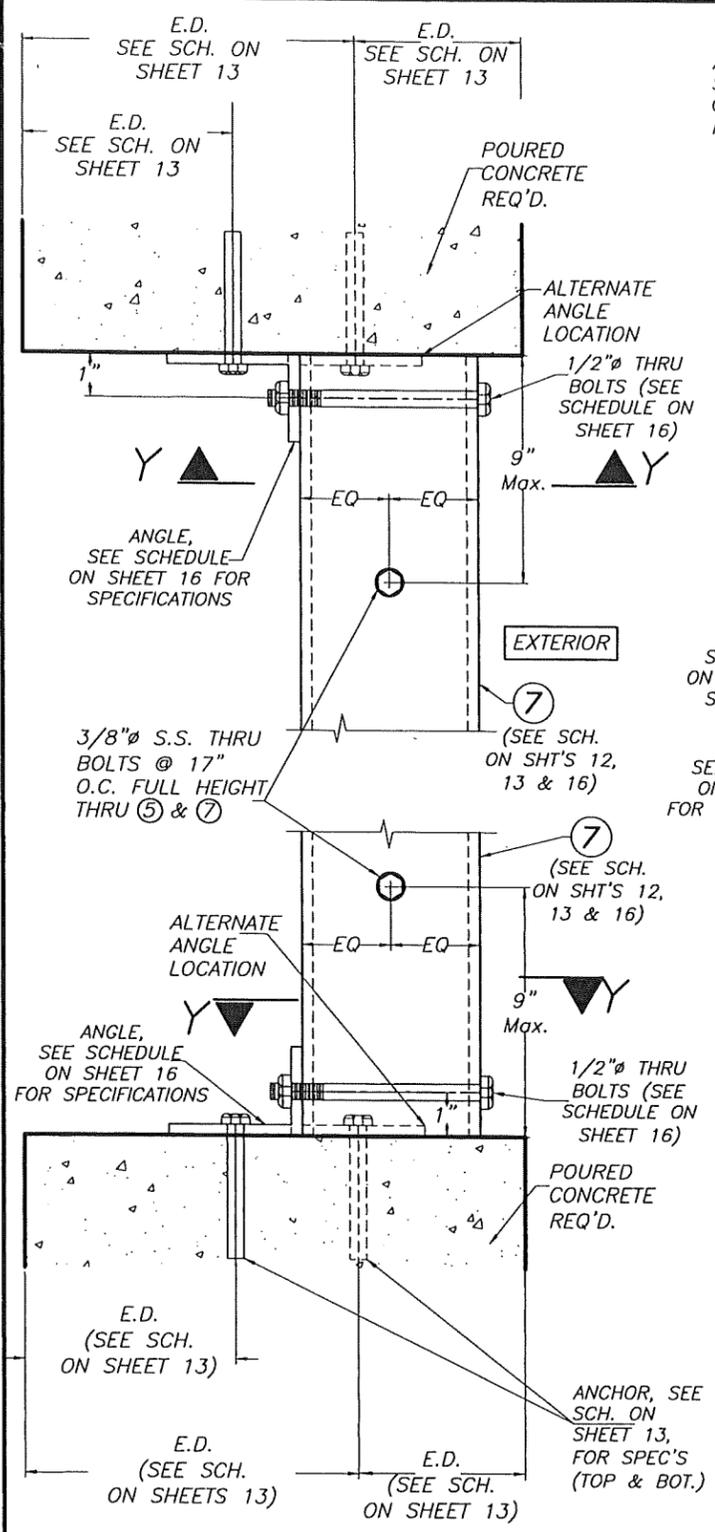
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**ALUMINUM LOUVER SYSTEM  
 MODEL FL-D-6**

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 3005 SOUTH HICKORY ST. 159 GENCO DRIVE  
 CHATTANOOGA, TN 37407 HARTFORD, AL 36344  
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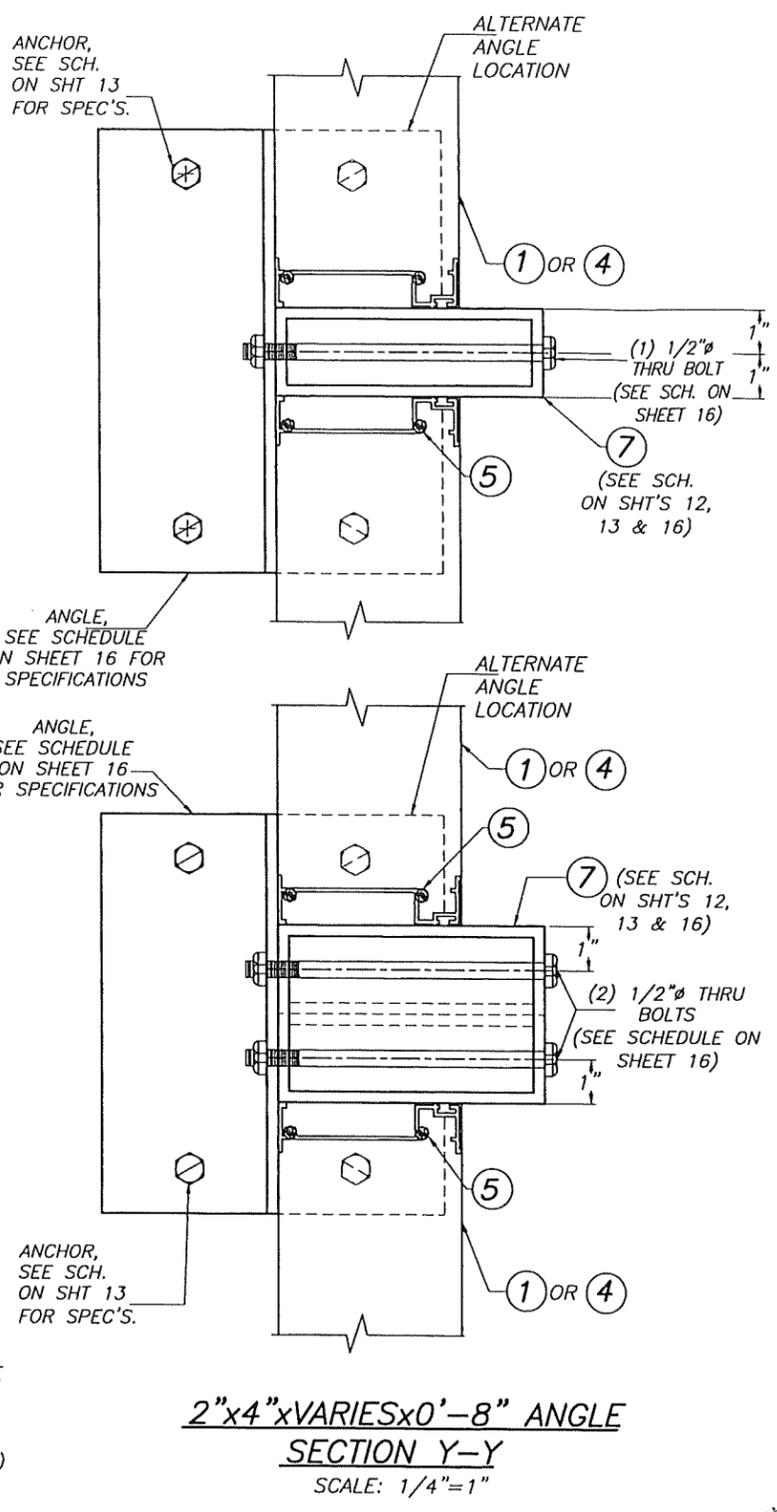
W.H.  
 DRAWN BY  
 7/7/2025  
 DATE  
**25-059**  
 DRAWING No  
 SHEET 5 OF 16

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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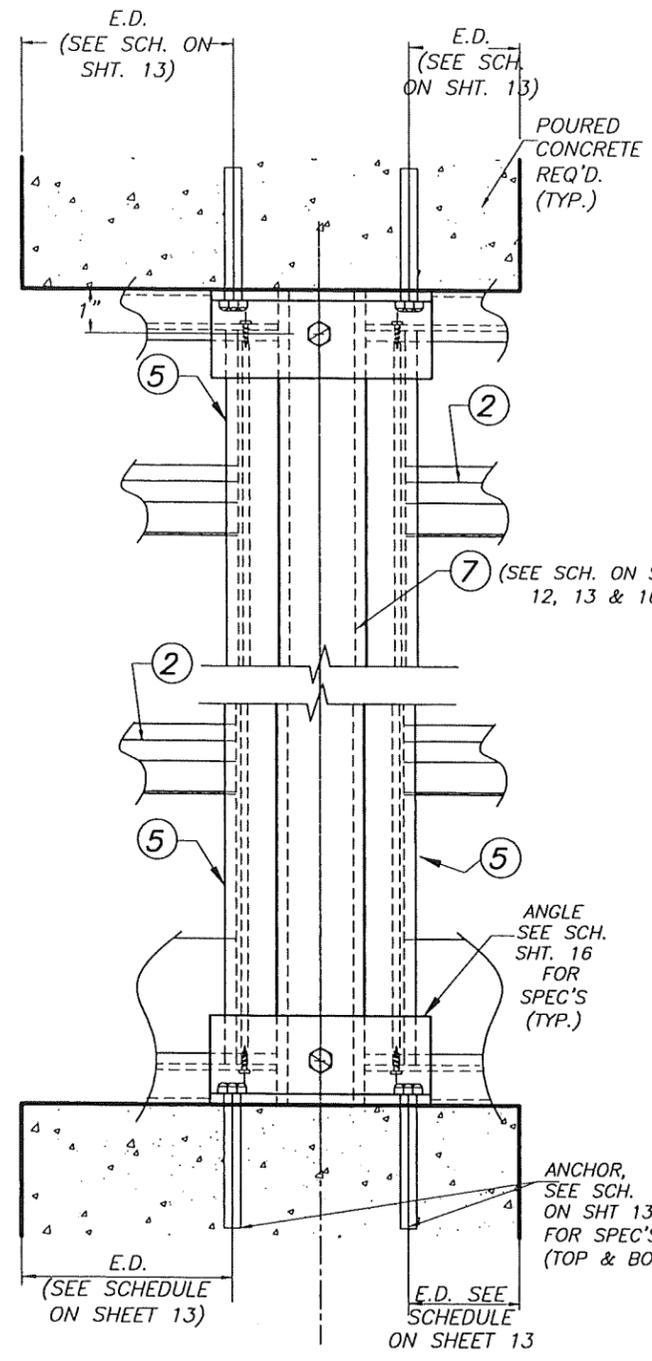


**SECTION E-E**  
SCALE: 1/4"=1"

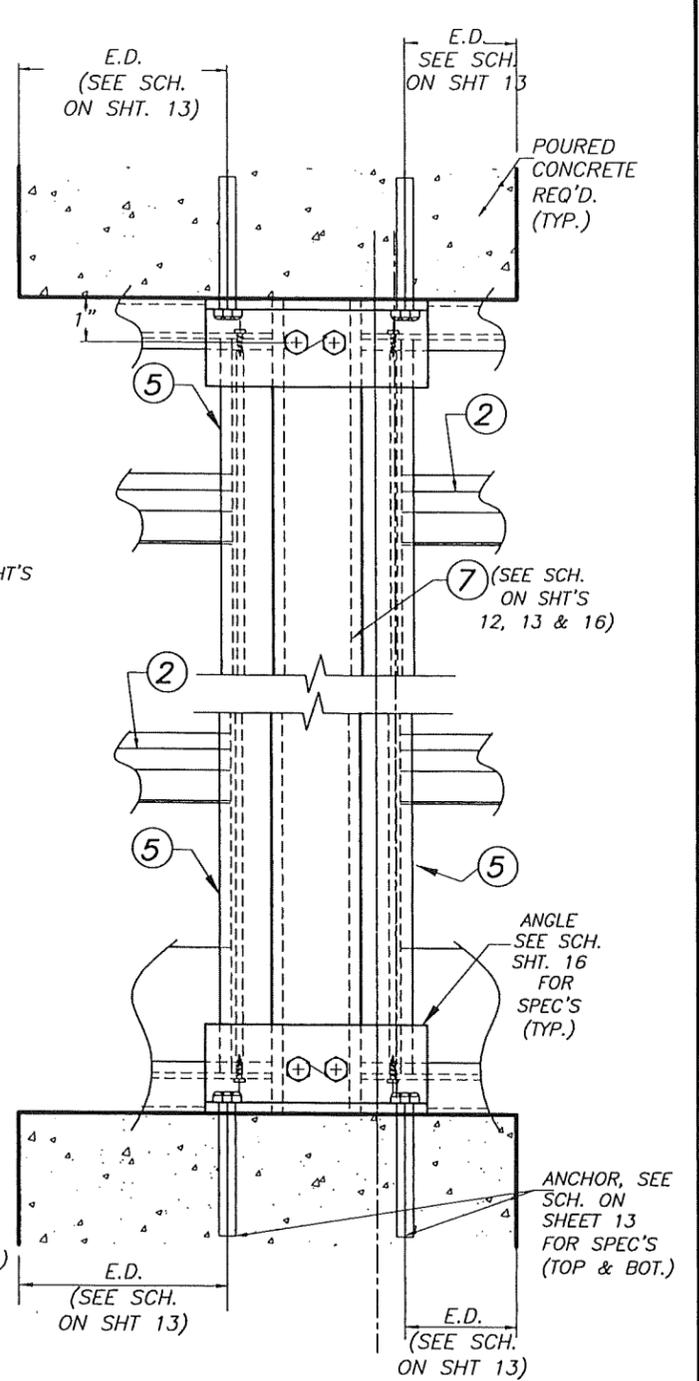
**MULLION INSTALLATION INTO POURED CONCRETE**



**2"x4"xVARIESx0'-8" ANGLE**  
**SECTION Y-Y**  
SCALE: 1/4"=1"



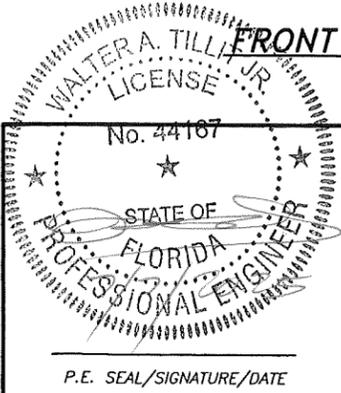
**FRONT ELEVATION**



**FRONT ELEVATION**

**FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)**

**PRODUCT REVISED**  
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Miami-Dade Product Control

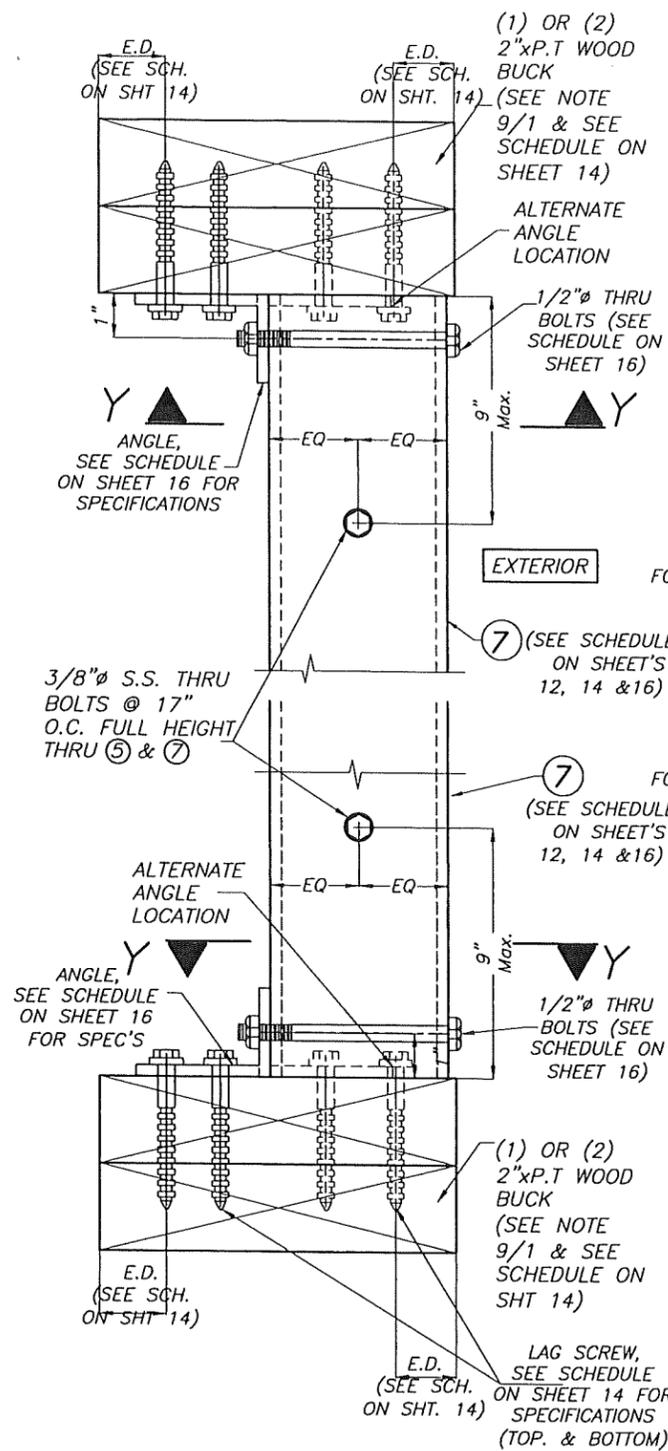


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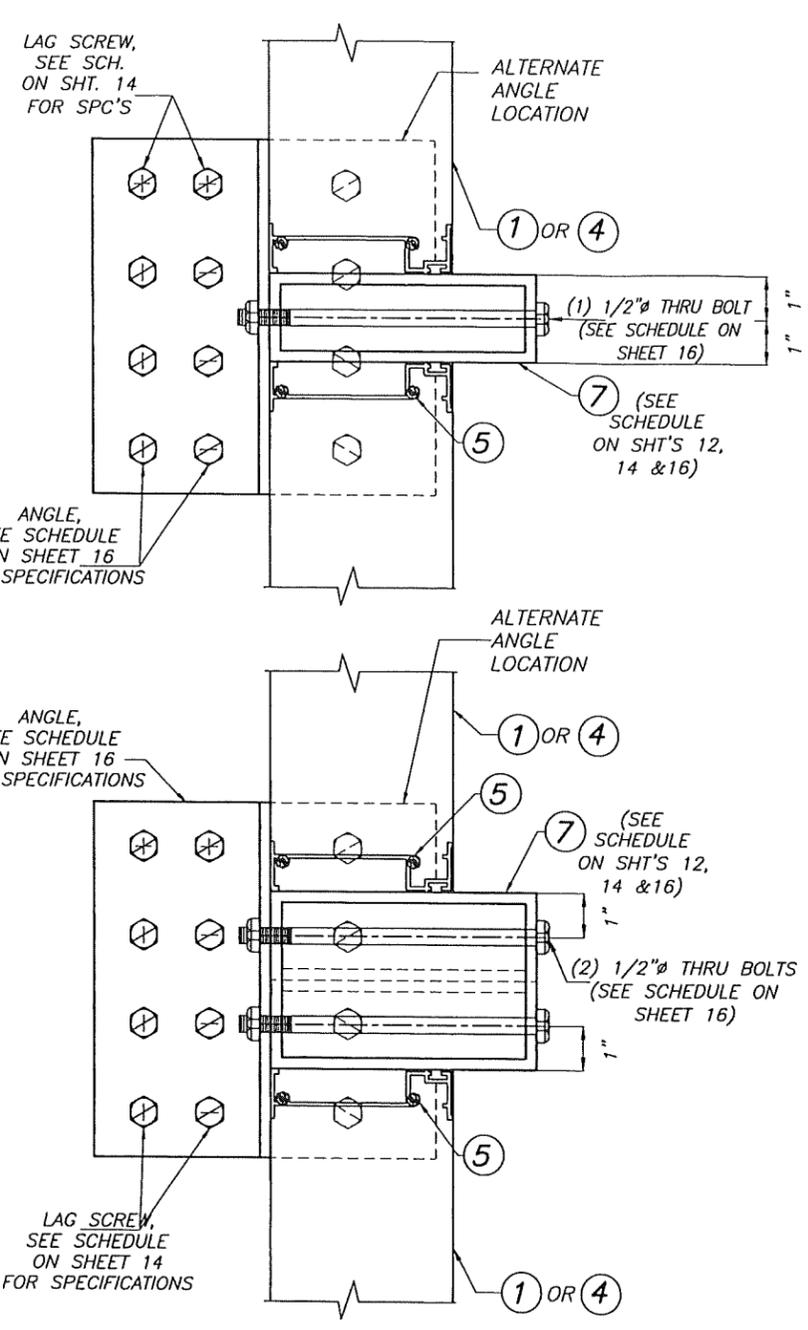
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CA-0006719  
WALTER A. TILLIT Jr. P.E.  
FLORIDA Lic. # 44167

<b>ALUMINUM LOUVER SYSTEM MODEL FL-D-6</b>			W.H. DRAWN BY		
<b>S&amp;P AIR CONTROL, LLC.</b>			7/7/2025 DATE		
3005 SOUTH HICKORY ST. 159 GENCO DRIVE CHATTANOOGA, TN 37407 HARTFORD, AL 36344 PHONE: (423)698-7715 FAX:(423)698-6629			<b>25-059</b> DRAWING No		
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2	-	-	4	-	-

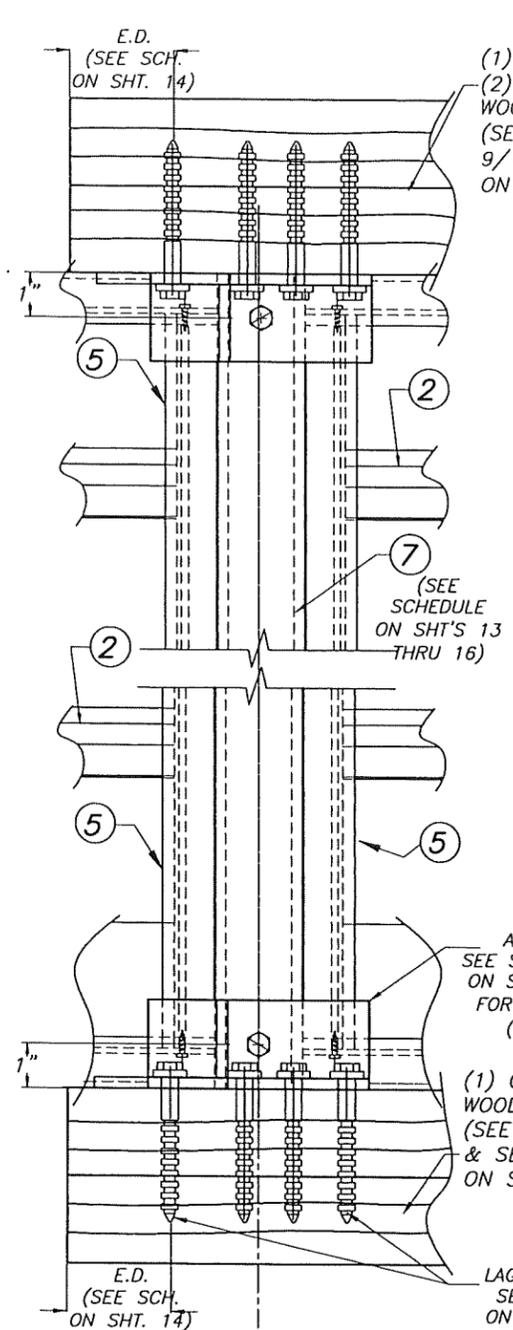


**SECTION E-E**  
SCALE: 1/4"=1"

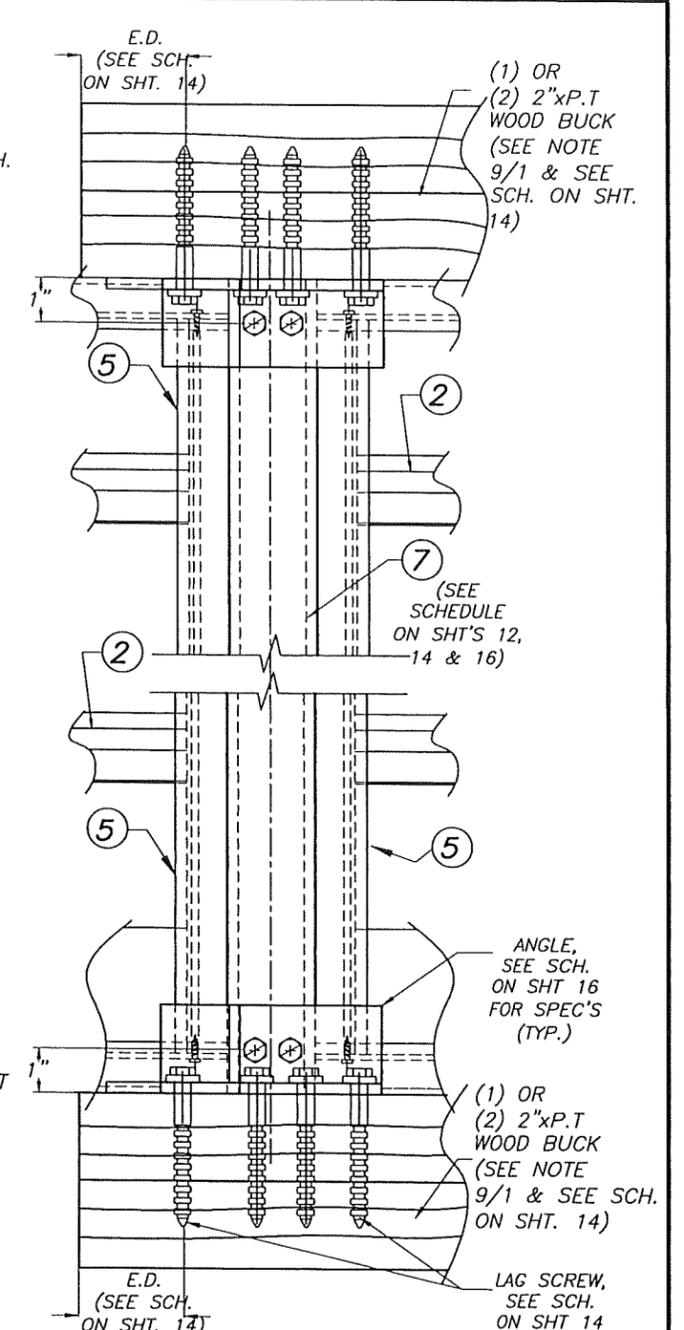
**MULLION INSTALLATION INTO WOOD**



**2"x4"xVARIESx0'-8" ANGLE**  
**SECTION Y-Y**  
SCALE: 1/4"=1"

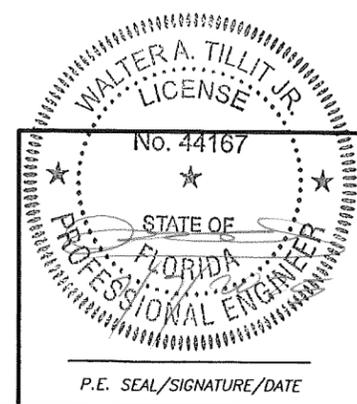


**FRONT ELEVATION**



**FRONT ELEVATION**

**PRODUCT REVISED**  
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NOA-No. 25-0805.05  
Expiration Date 01/17/2027  
By *[Signature]*  
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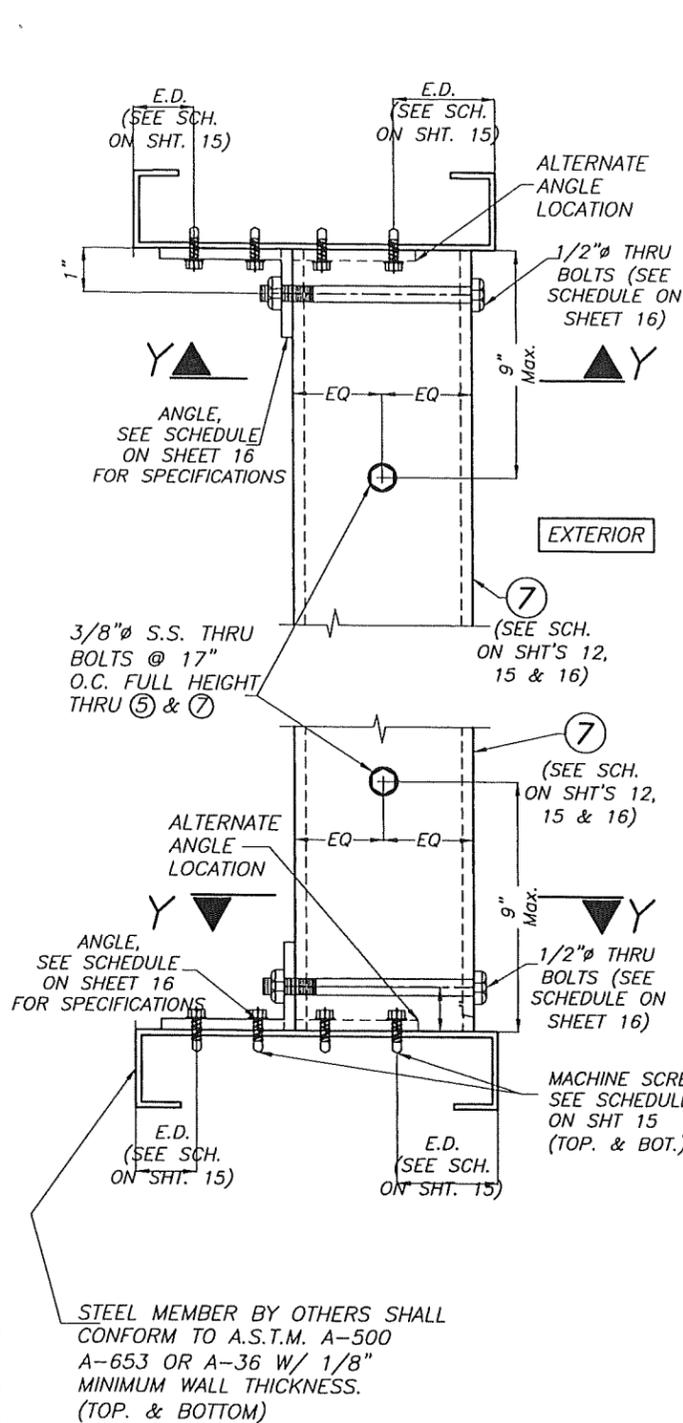


**FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)**

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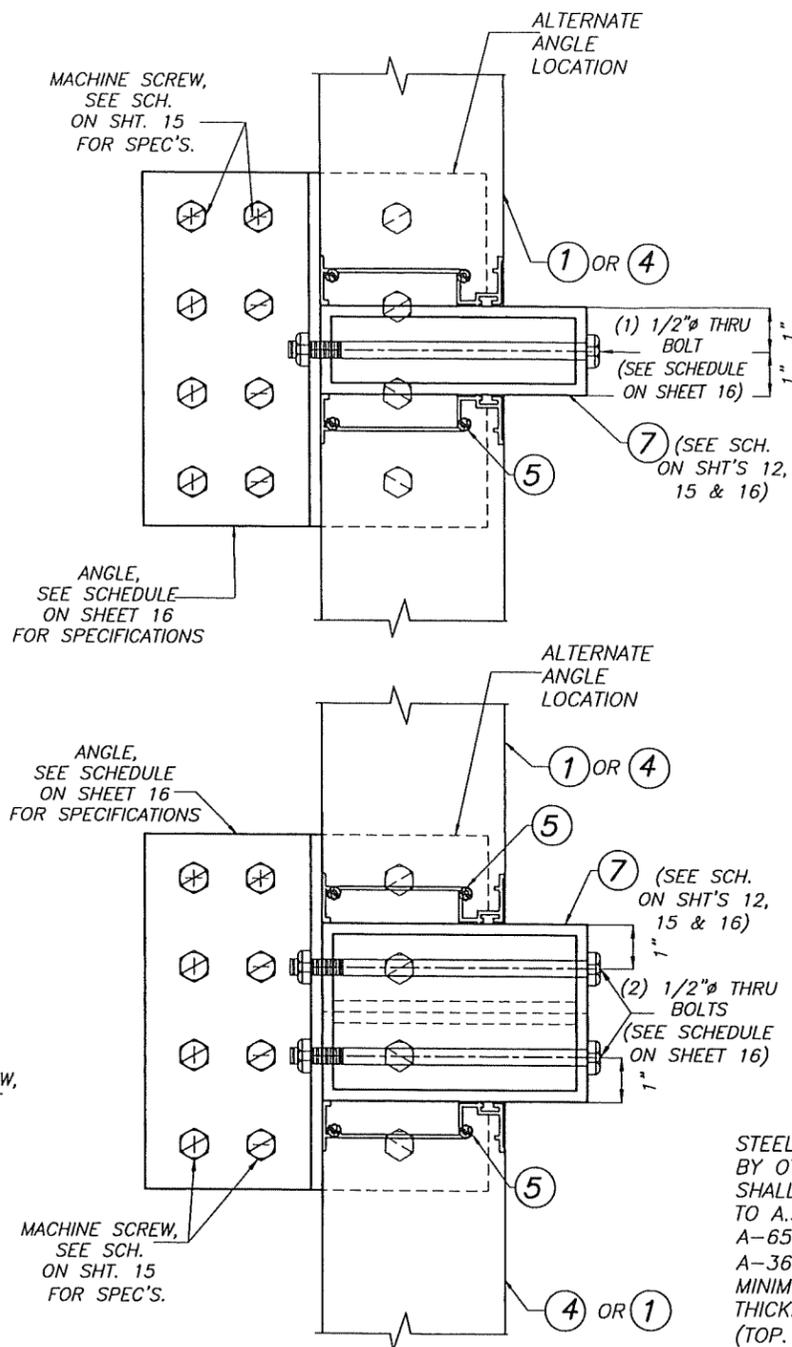
**TILTECO inc.**  
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e-mail: tilteco@aol.com  
CA-0006719  
WALTER A. TILLIT Jr. P.E.  
FLORIDA Lic. # 44167

<b>ALUMINUM LOUVER SYSTEM MODEL FL-D-6</b>			W.H. DRAWN BY		
<b>S&amp;P AIR CONTROL, LLC.</b>			7/7/2025 DATE		
3005 SOUTH HICKORY ST. 159 GENCO DRIVE CHATTANOOGA, TN 37407 HARTFORD, AL 36344 PHONE: (423)698-7715 FAX:(423)698-6629			<b>25-059</b> DRAWING No		
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2	-	-	4	-	-

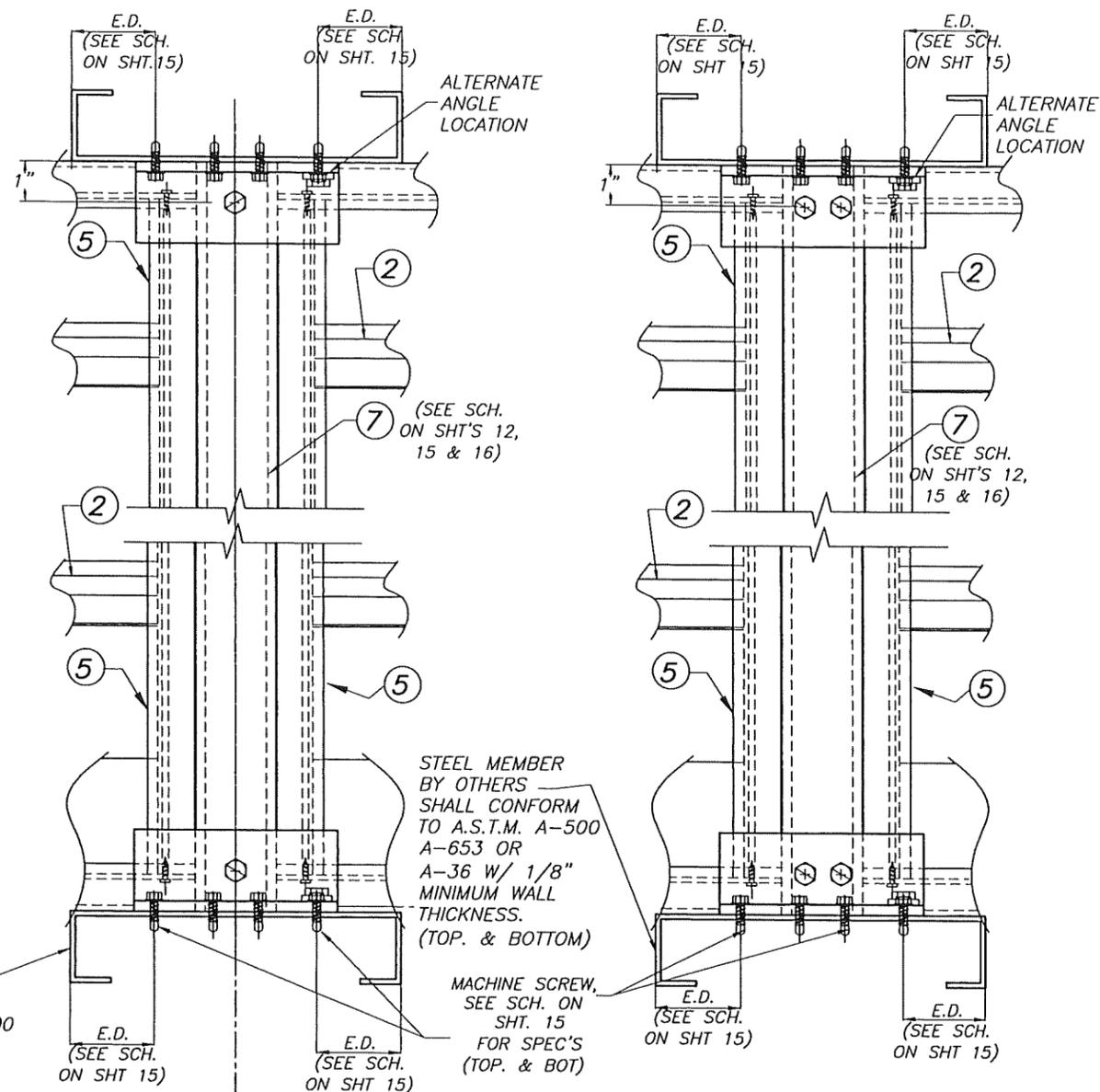


**SECTION E-E**  
SCALE: 1/4"=1"

**MULLION INSTALLATION  
INTO 1/8" THICK MIN. STEEL**



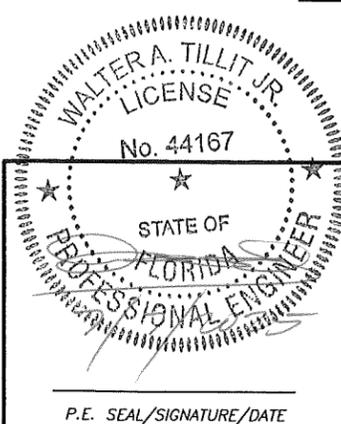
**2"x4"xVARIESx0'-8" ANGLE  
SECTION Y-Y**  
SCALE: 1/4"=1"



**FRONT ELEVATION**  
SCALE: 1/4"=1"

**FRONT ELEVATION**  
SCALE: 1/4"=1"

**PRODUCT REVISED**  
as complying with the Florida  
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By *[Signature]*  
Miami-Dade Product Control



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CA-0006719  
WALTER A. TILLIT Jr. P.E.  
FLORIDA Lic. # 44167

**ALUMINUM LOUVER SYSTEM  
MODEL FL-D-6**

**S&P AIR CONTROL, LLC.**

3005 SOUTH HICKORY ST. 159 GENCO DRIVE  
CHATTANOOGA, TN 37407 HARTFORD, AL 36344  
PHONE: (423)698-7715 FAX:(423)698-6629

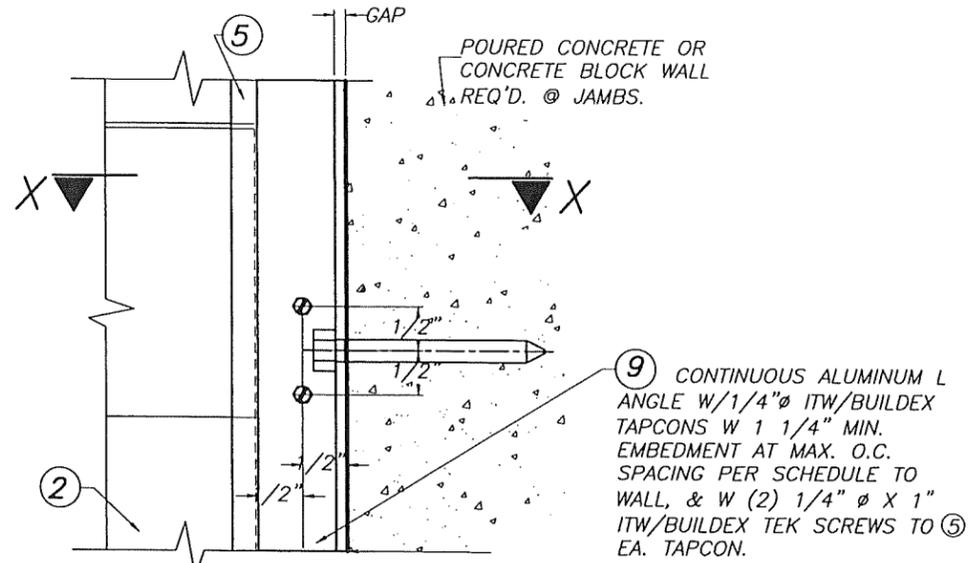
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W.H.  
DRAWN BY

7/7/2025  
DATE

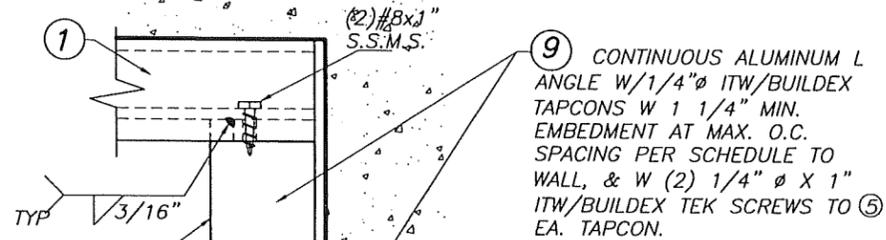
**25-059**  
DRAWING No

SHEET 8 OF 16



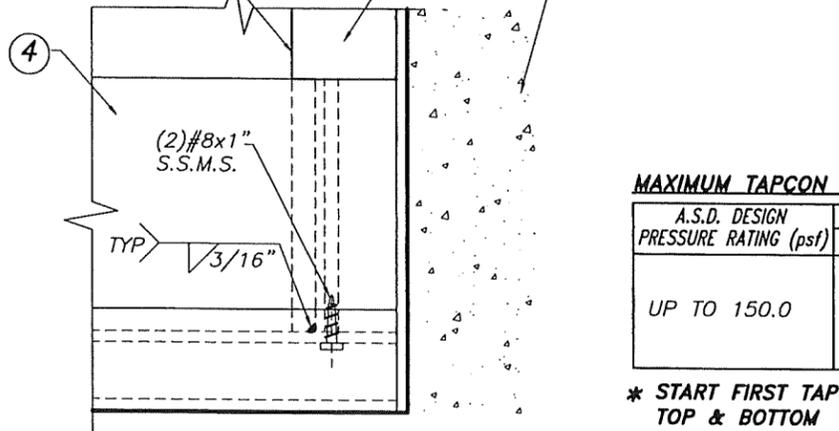
**DETAIL 3**

SCALE: 1/2"=1"



**DETAIL 5**

SCALE: 1/2"=1"



**DETAIL 6**

SCALE: 1/2"=1"

**JAMB INSTALLATION INTO POURED CONCRETE OR CONCRETE BLOCK.**

9 CONTINUOUS ALUMINUM L ANGLE W/1/4" ITW/BUILDEx TAPCONS W 1 1/4" MIN. EMBEDMENT AT MAX. O.C. SPACING PER SCHEDULE TO WALL, & W (2) 1/4" X 1" ITW/BUILDEx TEK SCREWS TO 5 EA. TAPCON.

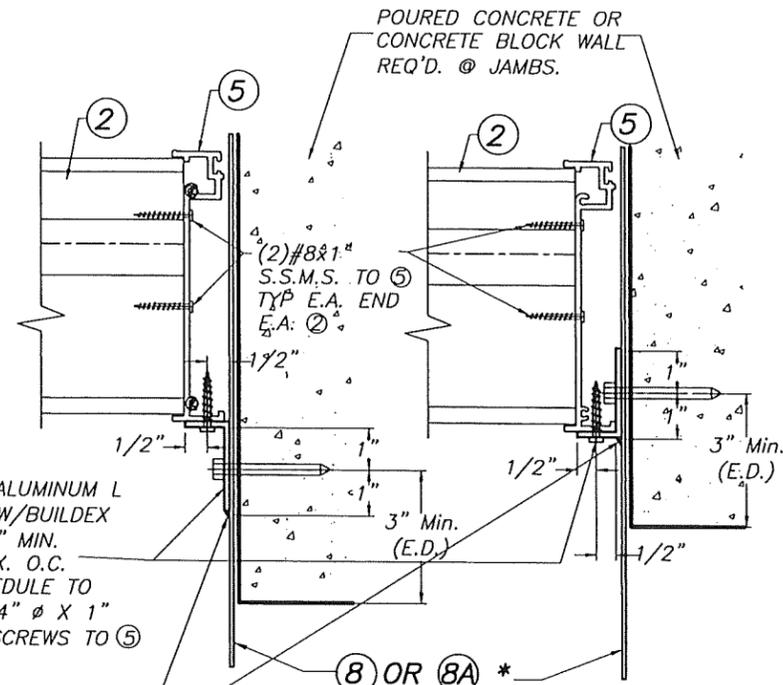
9 CONTINUOUS ALUMINUM L ANGLE W/1/4" ITW/BUILDEx TAPCONS W 1 1/4" MIN. EMBEDMENT AT MAX. O.C. SPACING PER SCHEDULE TO WALL, & W (2) 1/4" X 1" ITW/BUILDEx TEK SCREWS TO 5 EA. TAPCON.

POURED CONCRETE OR CONCRETE BLOCK WALL REQ'D. @ JAMBS.

**MAXIMUM TAPCON SPACING AT JAMBS\***

A.S.D. DESIGN PRESSURE RATING (psf)	MAX. O.C. SPACING	
	CONCRETE	BLOCK
UP TO 150.0	7" O.C.	3" O.C.

\* START FIRST TAPCON AT 5" FROM TOP & BOTTOM



9 CONTINUOUS ALUMINUM L ANGLE W/1/4" ITW/BUILDEx TAPCONS W 1 1/4" MIN. EMBEDMENT AT MAX. O.C. SPACING PER SCHEDULE TO WALL, & W (2) 1/4" X 1" ITW/BUILDEx TEK SCREWS TO 5 EA. TAPCON.

**ALTERNATE 1 ALTERNATE 2**

**SECTION X-X**

SCALE: 1/4"=1"

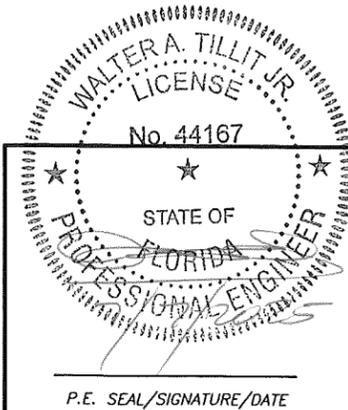
8" O.C. START 1" FROM TOP & 1 1/2" V 1/8" BOTTOM

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 25-0805.05

Expiration Date 01/17/2027

By *[Signature]*  
Miami-Dade Product Control

\* (8) OR (8A) ARE OPTIONAL



**FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)**

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e-mail: tilliteco@aol.com  
CA-0006719  
WALTER A. TILLIT JR., P.E.  
FLORIDA Lic. # 44167

**ALUMINUM LOUVER SYSTEM MODEL FL-D-6**

**S&P AIR CONTROL, LLC.**

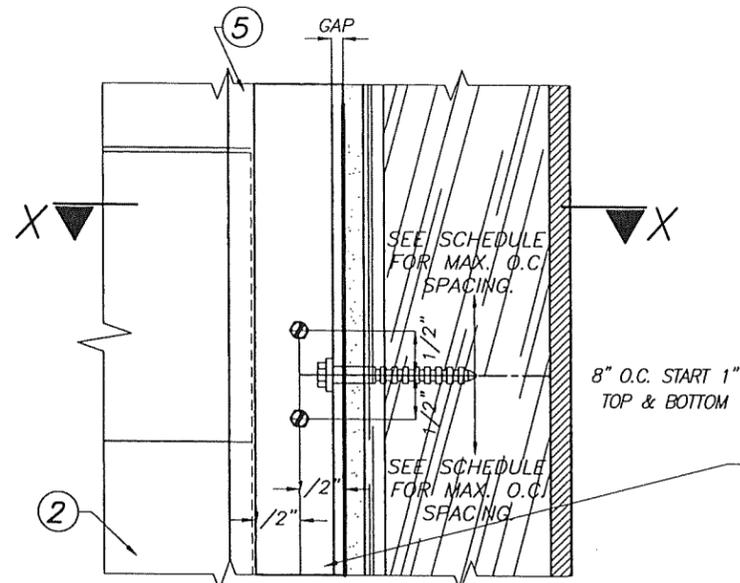
3005 SOUTH HICKORY ST. 159 GENCO DRIVE  
CHATTANOOGA, TN 37407 HARTFORD, AL 36344  
PHONE: (423)698-7715 FAX:(423)698-6629

W.H. DRAWN BY

7/7/2025 DATE

25-059 DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-074	7/7/25	3	-	-
2	-	-	4	-	-



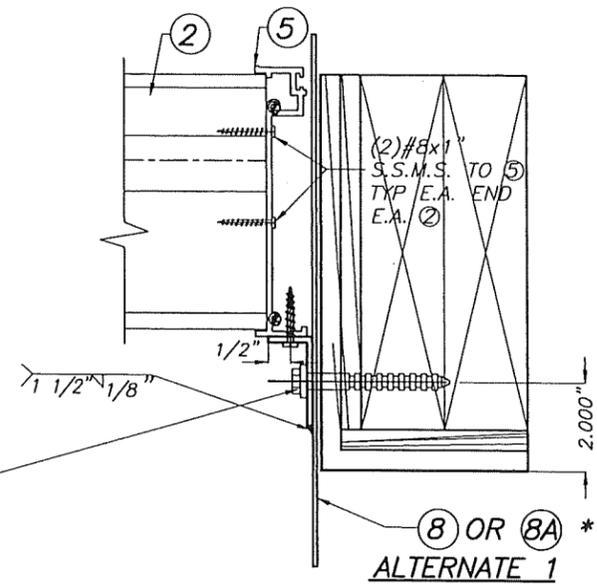
**DETAIL 3**  
SCALE: 1/2"=1"

8" O.C. START 1" TOP & BOTTOM

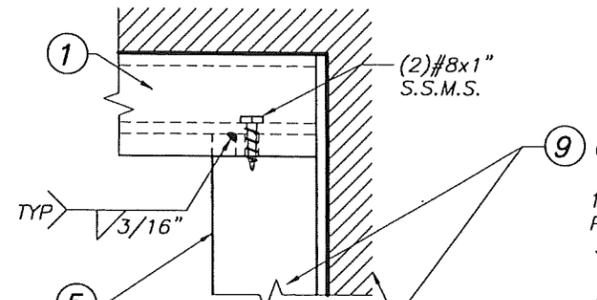
SEE SCHEDULE FOR MAX. O.C. SPACING.

SEE SCHEDULE FOR MAX. O.C. SPACING.

9 CONTINUOUS ALUMINUM ANGLE W/ 1/4"Ø LAG SCREW W/ 1 1/2" Min. THREADED PENETRATION @ Max. O.C. SPACING PER SCHEDULE TO WALL & W/ (2) 1/4"Øx1" (ITW BUILDDEX) TEK SCREWS. TO 5 @ EA. LAG SCREW.



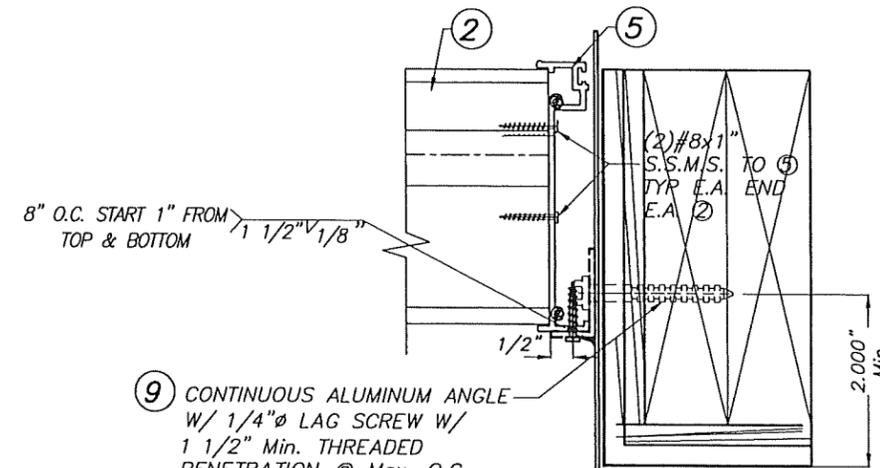
8 OR 8A \*  
**ALTERNATE 1**



**DETAIL 5**  
SCALE: 1/2"=1"

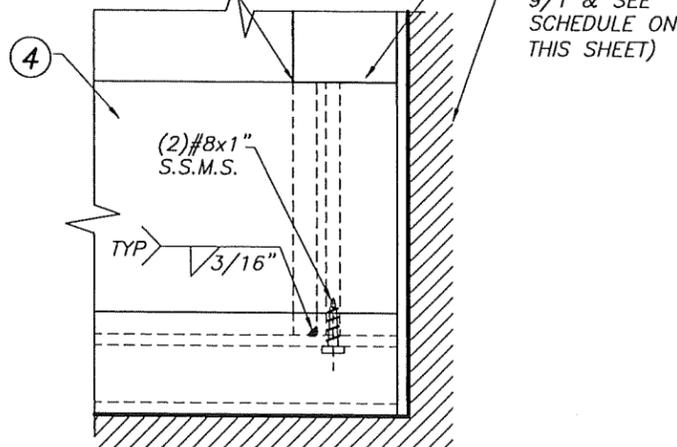
9 CONTINUOUS ALUMINUM ANGLE W/ 1/4"Ø LAG SCREW W/ 1 1/2" Min. THREADED PENETRATION @ Max. O.C. SPACING PER SCHEDULE TO WALL & W/ (2) 1/4"Øx1" (ITW BUILDDEX) TEK SCREWS. TO 5 @ EA. LAG SCREW.

(2) 2"xP.T WOOD BUCK (SEE NOTE 9/1 & SEE SCHEDULE ON THIS SHEET)



9 CONTINUOUS ALUMINUM ANGLE W/ 1/4"Ø LAG SCREW W/ 1 1/2" Min. THREADED PENETRATION @ Max. O.C. SPACING PER SCHEDULE TO WALL & W/ (2) 1/4"Øx1" (ITW BUILDDEX) TEK SCREWS. TO 5 @ EA. TAPCON.

8 OR 8A \*  
**ALTERNATE 2**  
**SECTION X-X**  
SCALE: 1/4"=1"



**DETAIL 6**  
SCALE: 1/2"=1"

**MAXIMUM LAG SCREW SPACING AT JAMBS \***

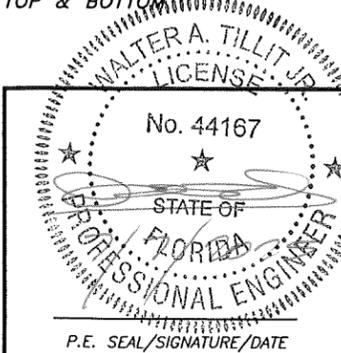
A.S.D. DESIGN PRESSURE RATING (psf)	MAX. O.C. SPACING
UP TO 50	8"
>50 TO 70	7"
>70 TO 90	5 1/2"
>90 TO 110	4 1/2"
>110 TO 130	3 1/2"
>130 TO 150	3"

\* START FIRST LAG SCREW AT 5" FROM TOP & BOTTOM

\* 8 OR 8A ARE OPTIONAL

**JAMB INSTALLATION INTO WOOD**

**PRODUCT REVISED**  
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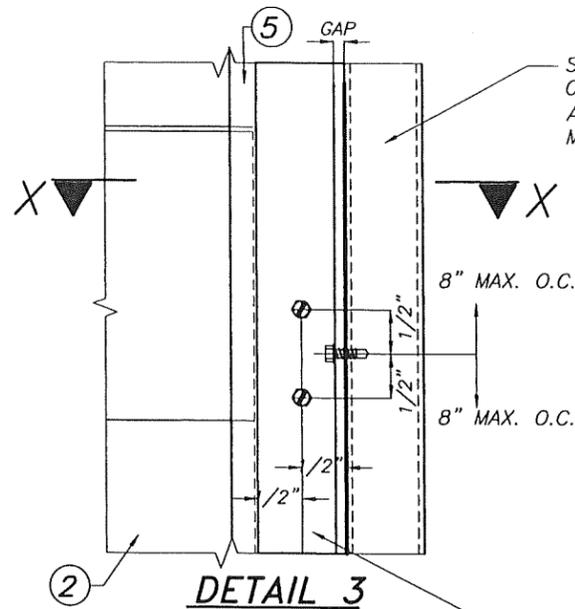
**ALUMINUM LOUVER SYSTEM  
MODEL FL-D-6**

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CHATTANOOGA, TN 37407 HARTFORD, AL 36344  
PHONE: (423)698-7715 FAX:(423)698-6629

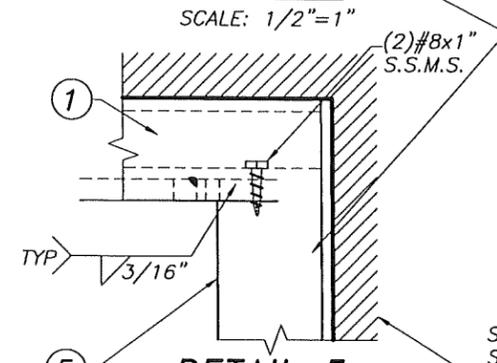
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1	OLD 23-074	7/7/25	3	-	-
2	-	-	4	-	-

W.H. DRAWN BY  
7/7/2025 DATE  
**25-059** DRAWING No  
SHEET 10 OF 16



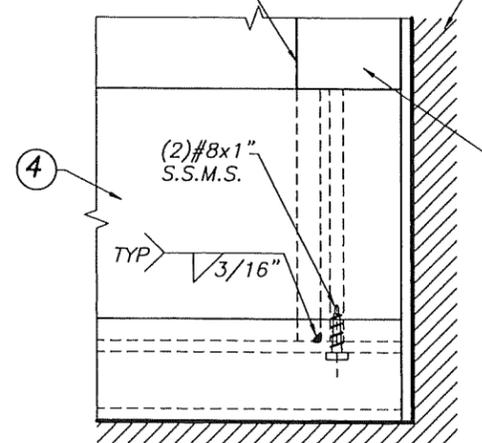
**DETAIL 3**  
SCALE: 1/2"=1"

STEEL MEMBER BY OTHERS SHALL CONFORM TO A.S.T.M. A-500 A-653 OR A-36 W/ 1/8" MINIMUM WALL THICKNESS.



**DETAIL 5**  
SCALE: 1/2"=1"

STEEL MEMBER BY OTHERS SHALL CONFORM TO A.S.T.M. A-500 A-653 OR A-36 W/ 1/8" MINIMUM WALL THICKNESS.



**DETAIL 6**  
SCALE: 1/2"=1"

**JAMB INSTALLATION INTO 1/8" THICK MIN. STEEL**

9 CONTINUOUS ALUMINUM ANGLE W/ 1/4"Øx3/4" (ITW BUILDDEX) TEK SCREWS AT MAX. O.C. SPACING PER SCHEDULE TO STEEL & W/ (2) 1/4"Øx1" (ITW BUILDDEX) TEK SCREWS. TO 5 @ EA. TEK SCREW.

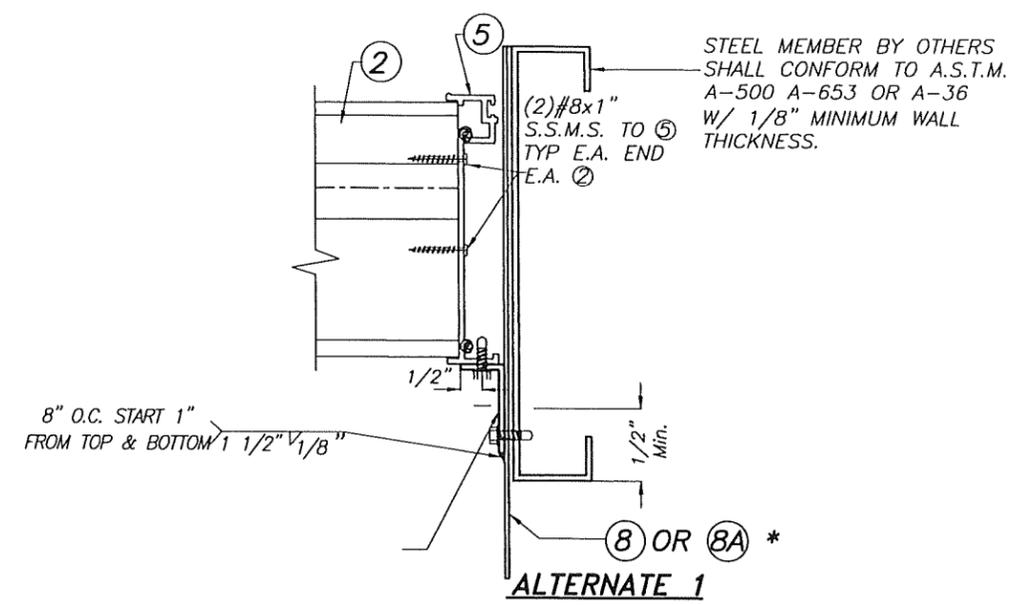
9 CONTINUOUS ALUMINUM ANGLE W/ 1/4"Øx3/4" (ITW BUILDDEX) TEK SCREWS AT MAX. O.C. SPACING PER SCHEDULE TO STEEL & W/ (2) 1/4"Øx1" (ITW BUILDDEX) TEK SCREWS. TO 5 @ EA. TEK SCREW.

**MAXIMUM TEK SCREW SPACING AT JAMBS\***

A.S.D. DESIGN PRESSURE RATING (psf)	MAX. O.C. SPACING
UP TO 150.0	8"

\* START FIRST TEK SCREW AT 5" FROM TOP & BOTTOM

**PRODUCT REVISED** as complying with the Florida Building Code  
NOA-No. 25-0805.05  
Expiration Date 01/17/2027  
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Miami-Dade Product Control



**ALTERNATE 1**

STEEL MEMBER BY OTHERS SHALL CONFORM TO A.S.T.M. A-500 A-653 OR A-36 W/ 1/8" MINIMUM WALL THICKNESS.

8" O.C. START 1" FROM TOP & BOTTOM 1/2" V 1/8"

8" O.C. START 1" FROM TOP & BOTTOM 1/2" V 1/8"

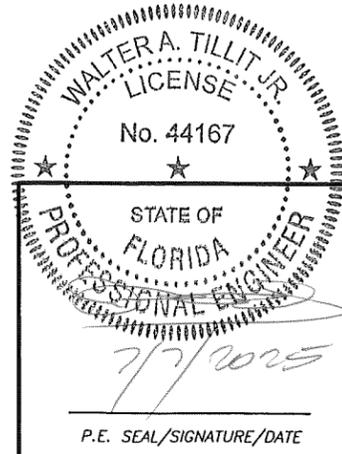
9 CONTINUOUS ALUMINUM ANGLE W/ 1/4"Øx3/4" (ITW BUILDDEX) TEK SCREWS AT MAX. O.C. SPACING PER SCHEDULE TO STEEL & W/ (2) 1/4"Øx1" (ITW BUILDDEX) TEK SCREWS. TO 5 @ EA. TEK SCREW.

**ALTERNATE 2**

STEEL MEMBER BY OTHERS SHALL CONFORM TO A.S.T.M. A-500 A-653 OR A-36 W/ 1/8" MINIMUM WALL THICKNESS.

**SECTION X-X**  
SCALE: 1/4"=1"

\* 8 OR 8A ARE OPTIONAL



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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**TILTECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166  
Phone: (305)871-1530. Fax: (305)871-1531  
e-mail: tilteco@aol.com  
CA-0006719  
WALTER A. TILLIT Jr., P.E.  
FLORIDA Lic. # 44167

**ALUMINUM LOUVER SYSTEM MODEL FL-D-6**

**S&P AIR CONTROL, LLC.**  
3005 SOUTH HICKORY ST. 159 GENCO DRIVE  
CHATTANOOGA, TN 37407 HARTFORD, AL 36344  
PHONE: (423)698-7715 FAX: (423)698-6629

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-

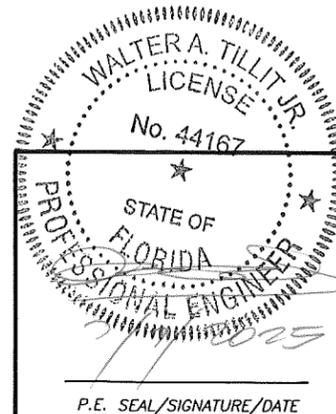
W.H. DRAWN BY  
7/7/2025 DATE  
**25-059** DRAWING No  
SHEET 11 OF 16

**MAX. MULLION SPAN SCHEDULE FOR A GIVEN A.S.D. DESIGN PRESSURE RATING & MULLION SPACING \***

A.S.D. DESIGN PRESSURE RATING (psf)	MULLIONS												ASSEMBLY HEIGHT
	2"x6"x1/4"				4"x6"x1/4" OR (2) 2"x6"x1/4"				4"x8"x1/4"				
	MULLION SPACING				MULLION SPACING				MULLION SPACING				
	3'	4'	5'	6'	3'	4'	5'	6'	3'	4'	5'	6'	
30	10'-0"	10'-0"	10'-0"	10'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	
50	10'-0"	10'-0"	10'-0"	10'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	
70	10'-0"	10'-0"	10'-0"	10'-0"	12'-0"	12'-0"	12'-0"	11'-10"	12'-0"	12'-0"	12'-0"	12'-0"	
90	10'-0"	10'-0"	10'-0"	9'-5"	12'-0"	12'-0"	11'-7"	10'-11"	12'-0"	12'-0"	12'-0"	12'-0"	
100	10'-0"	10'-0"	9'-8"	9'-0"	12'-0"	12'-0"	11'-2"	10'-6"	12'-0"	12'-0"	12'-0"	12'-0"	
110	10'-0"	10'-0"	9'-4"	8'-7"	12'-0"	11'-8"	10'-10"	10'-2"	12'-0"	12'-0"	12'-0"	12'-0"	
120	10'-0"	9'-9"	9'-0"	8'-2"	12'-0"	11'-4"	10'-6"	9'-11"	12'-0"	12'-0"	12'-0"	12'-0"	
130	10'-0"	9'-6"	8'-7"	7'-10"	12'-0"	11'-0"	10'-3"	9'-8"	12'-0"	12'-0"	12'-0"	12'-0"	
140	10'-0"	9'-3"	8'-4"	7'-7"	11'-10"	10'-9"	10'-0"	9'-5"	12'-0"	12'-0"	12'-0"	11'-11"	
150	10'-0"	9'-0"	8'-0"	7'-4"	11'-7"	10'-6"	9'-9"	9'-2"	12'-0"	12'-0"	12'-0"	11'-6"	

\* SEE ADDITIONAL LIMITATIONS FOR MAXIMUM MULLION SPAN (ASSEMBLY HEIGHT) ON SHEETS 13 THRU 16 FOR A MULLION CONNECTION TYPE. MAXIMUM FINAL MULLION SPAN (ASSEMBLY HEIGHT) SHALL BE THE MINIMUM VALUE BETWEEN THIS SCHEDULE AND ANY OTHER SCHEDULE GIVEN ON ABOVE MENTIONED SHEETS.

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 NOA-No. 25-0805.05  
 Expiration Date 01/17/2027  
 By *[Signature]*  
 Miami-Dade Product Control



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

© 2025 TILTECO, INC	<b>TILTECO inc.</b> TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530. Fax: (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167	<b>ALUMINUM LOUVER SYSTEM MODEL FL-D-6</b>	W.H. DRAWN BY																		
		<b>S&amp;P AIR CONTROL, LLC.</b> 3005 SOUTH HICKORY ST. CHATTANOOGA, TN 37407 159 GENCO DRIVE HARTFORD, AL 36344 PHONE: (423)698-7715 FAX:(423)698-6629	7/7/2025 DATE																		
			<b>25-059</b> DRAWING No																		
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE																
1	OLD 23-074	7/7/25	3	-	-																
2	-	-	4	-	-																

**MAX. MULLION SPAN (L ft) FOR A GIVEN A.S.D. DESIGN PRESSURE RATING & MULLION SPACING FOR TYPE 1 CONNECTION\***

A.S.D. D.P.R. (psf)	MULLION SPACING				ASSEMBLY HEIGHT
	3	4	5	6	
30	12'-0"	12'-0"	12'-0"	12'-0"	
50	12'-0"	12'-0"	12'-0"	12'-0"	
70	12'-0"	12'-0"	12'-0"	11'-3"	
90	12'-0"	12'-0"	10'-6"	8'-9"	
100	12'-0"	12'-0"	9'-5"	7'-10"	
110	12'-0"	12'-0"	8'-7"	7'-2"	
120	12'-0"	12'-0"	7'-10"	6'-7"	
130	12'-0"	12'-0"	7'-3"	6'-1"	
140	12'-0"	8'-5"	6'-9"	5'-7"	
150	10'-6"	7'-10"	6'-3"	5'-3"	

**TYPE 1 CONNECTION TO POURED CONCRETE:**

2 - 1/2" Ø KWIK BOLT TZ (HILTI, INC.) W/ 4" Min. EMBEDMENT & 8" MIN. MEMBER THICKNESS, W/ 3" MIN. E.D & 6" MIN. SPACING

**MAX. MULLION SPAN (L ft) FOR A GIVEN A.S.D. DESIGN PRESSURE RATING & MULLION SPACING FOR TYPE 3 CONNECTION \***

A.S.D. D.P.R. (psf)	MULLION SPACING				ASSEMBLY HEIGHT
	3	4	5	6	
30	12'-0"	12'-0"	12'-0"	12'-0"	
50	12'-0"	12'-0"	12'-0"	12'-0"	
70	12'-0"	12'-0"	12'-0"	11'-11"	
90	12'-0"	12'-0"	11'-1"	9'-3"	
100	12'-0"	12'-0"	10'-0"	8'-4"	
110	12'-0"	11'-4"	9'-1"	7'-7"	
120	12'-0"	10'-5"	8'-4"	6'-11"	
130	12'-0"	9'-7"	7'-8"	6'-5"	
140	11'-11"	8'-11"	7'-2"	5'-11"	
150	11'-1"	8'-4"	6'-8"	5'-7"	

**TYPE 3 CONNECTION TO POURED CONCRETE:**

2 - 1/2" Ø KWIK BOLT TZ (HILTI, INC.) W/ 4" Min. EMBEDMENT & 8" MIN. MEMBER THICKNESS W/ 4" MIN. E.D. & 6" MIN. SPACING

**\* NOTES:**

(1) SEE SHEET 12 & 16 FOR ADDITIONAL MAXIMUM MULLION SPAN LIMITATIONS FOR A GIVEN A.S.D. DESIGN PRESSURE RATING AND MAXIMUM SPACING. MAXIMUM MULLION SPAN SHALL BE THE MINIMUM BETWEEN SCHEDULES ON SHEETS 12, 16 AND THIS SHEET FOR A CONNECTION TYPE.

(2) SEE SHEET 16 FOR ANGLE SCHEDULE INDICATING MAXIMUM ALLOWABLE A.S.D. DESIGN PRESSURE RATING, MULLION SPACING AND MULLION SPAN FOR 1/4" THICK & 3/8" THICK ALUMINUM ANGLES USED TOP & BOTTOM FOR MULLION CONNECTION TO SUBSTRATE.

**MAX. MULLION SPAN (L ft) FOR A GIVEN A.S.D. DESIGN PRESSURE RATING & MULLION SPACING FOR TYPE 2 CONNECTION\***

A.S.D. D.P.R. (psf)	MULLION SPACING				ASSEMBLY HEIGHT
	3	4	5	6	
30	12'-0"	12'-0"	12'-0"	12'-0"	
50	12'-0"	12'-0"	12'-0"	12'-0"	
70	12'-0"	12'-0"	12'-0"	12'-0"	
90	12'-0"	12'-0"	12'-0"	10'-0"	
100	12'-0"	12'-0"	10'-10"	9'-0"	
110	12'-0"	12'-0"	9'-10"	8'-2"	
120	12'-0"	11'-3"	9'-0"	7'-6"	
130	12'-0"	10'-5"	8'-4"	6'-11"	
140	12'-0"	9'-8"	7'-9"	6'-5"	
150	12'-0"	9'-0"	7'-2"	6'-0"	

**TYPE 2 CONNECTION TO POURED CONCRETE:**

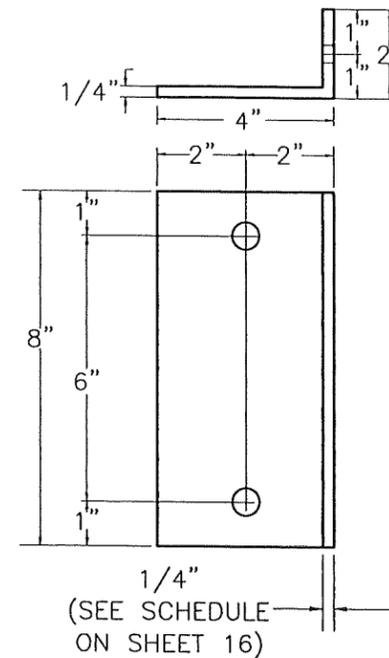
2 - 5/8" Ø KWIK BOLT TZ (HILTI, INC.) W/ 5" Min. EMBEDMENT & 8" MIN. MEMBER THICKNESS W/ 3" MIN. E.D & 6" MIN. SPACING

**MAX. MULLION SPAN (L ft) FOR A GIVEN A.S.D. DESIGN PRESSURE RATING & MULLION SPACING FOR TYPE 4 CONNECTION \***

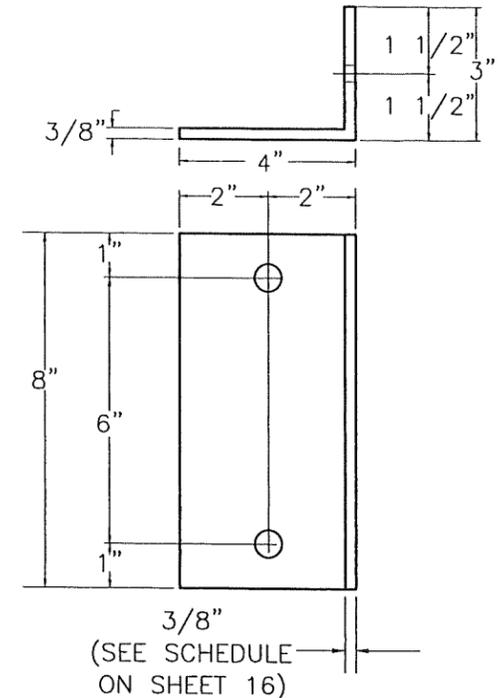
A.S.D. D.P.R. (psf)	MULLION SPACING				ASSEMBLY HEIGHT
	3	4	5	6	
30	12'-0"	12'-0"	12'-0"	12'-0"	
50	12'-0"	12'-0"	12'-0"	12'-0"	
70	12'-0"	12'-0"	12'-0"	12'-0"	
90	12'-0"	12'-0"	12'-0"	10'-0"	
100	12'-0"	12'-0"	10'-10"	9'-0"	
110	12'-0"	12'-0"	9'-10"	8'-2"	
120	12'-0"	11'-3"	9'-0"	7'-6"	
130	12'-0"	10'-5"	8'-4"	6'-11"	
140	12'-0"	9'-8"	7'-9"	6'-5"	
150	12'-0"	9'-0"	7'-2"	6'-0"	

**TYPE 4 CONNECTION TO POURED CONCRETE:**

2 - 1/2" Ø KWIK BOLT TZ (HILTI, INC.) W/ 4" Min. EMBEDMENT & 8" MIN. MEMBER THICKNESS W/ 6" MIN. E.D. & 6" MIN. SPACING



2"x4"x1/4"x0'-8" ALUMINUM ANGLE

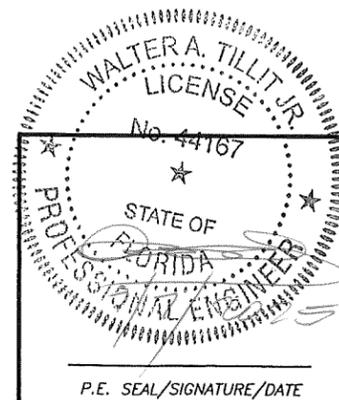


3"x4"x3/8"x0'-8" ALUMINUM ANGLE

**SCHEDULE FOR MULLION CONNECTION TO POURED CONCRETE (Min. f'c = 3 ksi)**

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By *[Signature]*  
Miami-Dade Product Control

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TILLIT TESTING & ENGINEERING COMPANY  
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166  
Phone: (305)871-1530 Fax: (305)871-1531  
e-mail: [tilteco@aol.com](mailto:tilteco@aol.com)  
CA-0006719  
WALTER A. TILLIT Jr. P.E.  
FLORIDA Lic. # 44167

<b>ALUMINUM LOUVER SYSTEM MODEL FL-D-6</b>		W.H. DRAWN BY
<b>S&amp;P AIR CONTROL, LLC.</b>		7/7/2025 DATE
3005 SOUTH HICKORY ST. 159 GENCO DRIVE CHATTANOOGA, TN 37407 HARTFORD, AL 36344 PHONE: (423)698-7715 FAX:(423)698-6629		<b>25-059</b> DRAWING No
REV. No	DESCRIPTION	DATE
1	OLD 23-074	7/7/25
2		

SHEET 13 OF 16

**MAX. MULLION SPAN (L ft) FOR A GIVEN A.S.D. DESIGN PRESSURE**

**RATING & MULLION SPACING FOR TYPE 5 CONNECTION \***

A.S.D. D.P.R. (psf)	MULLION SPACING				ASSEMBLY HEIGHT
	3	4	5	6	
50	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
60	12' - 0"	12' - 0"	12' - 0"	10' - 6"	
70	12' - 0"	12' - 0"	10' - 10"	9' - 0"	
90	12' - 0"	10' - 6"	8' - 5"	7' - 0"	
100	12' - 0"	9' - 5"	7' - 7"	6' - 4"	

**TYPE 5 CONNECTION W/ 1/4" THICK ALUMINUM ANGLE TO WOOD**

8 - 3/8"Ø LAG SCREWS W/ 3" Min. THREADED PENETRATION

W/ 1.25" E.D & 2" SPACING

**MAXIMUM MULLION SPAN (L ft) FOR A GIVEN DESIGN LOAD**

**& MULLION SPACING FOR TYPE 7 CONNECTION \***

W (psf)	MULLION SPACING				ASSEMBLY HEIGHT
	3	4	5	6	
50	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
60	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
70	12' - 0"	12' - 0"	12' - 0"	10' - 5"	
90	12' - 0"	12' - 0"	9' - 9"	8' - 2"	
120	12' - 0"	9' - 2"	7' - 4"	6' - 1"	

**TYPE 7 CONNECTION W/ 3/8" THICK ALUMINUM ANGLE TO WOOD**

8 - 3/8"Ø LAG SCREWS W/ 3" Min. THREADED PENETRATION

W/ 1.25" E.D & 2" SPACING

**MAXIMUM MULLION SPAN (L ft) FOR A GIVEN DESIGN LOAD**

**& MULLION SPACING FOR TYPE 6 CONNECTION \***

W (psf)	MULLION SPACING				ASSEMBLY HEIGHT
	3	4	5	6	
50	12' - 0"	9' - 9"	7' - 9"	6' - 6"	
60	10' - 0"	8' - 1"	6' - 6"	5' - 5"	
70	9' - 0"	6' - 11"	5' - 7"	4' - 8"	
90	7' - 0"	5' - 5"	4' - 4"	3' - 7"	

**TYPE 6 CONNECTION W/ 3/8" THICK ALUMINUM ANGLE TO WOOD**

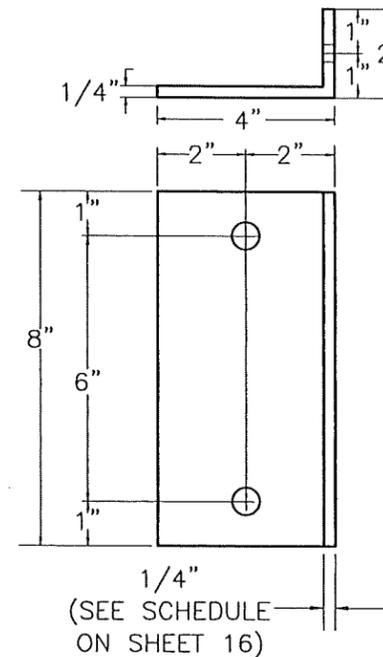
8 - 3/8"Ø LAG SCREWS W/ 1.5" Min. THREADED PENETRATION

W/ 1.25" E.D & 2" SPACING

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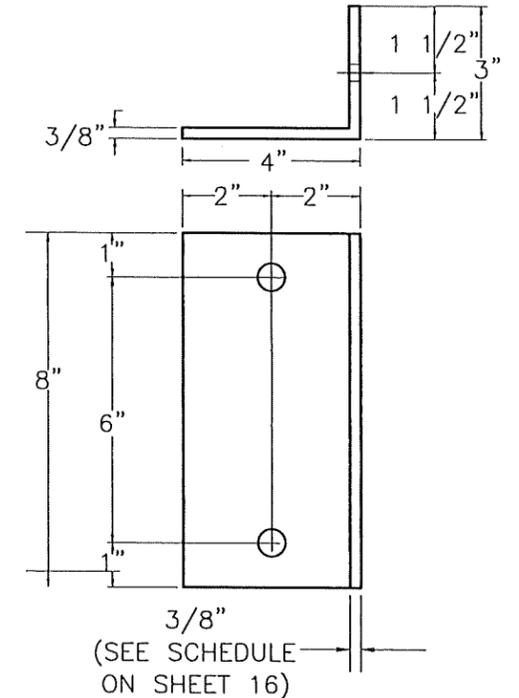
Expiration Date 01/17/2027

By *[Signature]*  
Miami-Dade Product Control



1/4"  
(SEE SCHEDULE  
ON SHEET 16)

**2"x4"x1/4"x0'-8"**  
**ALUMINUM ANGLE**



3/8"  
(SEE SCHEDULE  
ON SHEET 16)

**3"x4"x3/8"x0'-8"**  
**ALUMINUM ANGLE**

**SCHEDULE FOR MULLION  
CONNECTION TO WOOD**

(Min. G=0.55)

**\* NOTES:**

(1) SEE SHEET 12 THRU 16 FOR ADDITIONAL MAXIMUM MULLION SPAN LIMITATIONS FOR A GIVEN A.S.D. DESIGN PRESSURE RATING AND MAXIMUM SPACING. MAXIMUM MULLION SPAN (ASSEMBLY HEIGHT) SHALL BE THE MINIMUM BETWEEN SCHEDULES ON SHEET 12 AND THIS SHEET FOR A CONNECTION TYPE.

(2) SEE SHEET 16 FOR ANGLE SCHEDULE INDICATING MAXIMUM ALLOWABLE A.S.D. DESIGN PRESSURE RATING, MULLION SPACING AND MULLION SPAN FOR 1/4" THICK & 3/8" THICK ALUMINUM ANGLES USED TOP & BOTTOM FOR MULLION CONNECTION TO SUBSTRATE.

**FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)**

<p>WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER P.E. SEAL/SIGNATURE/DATE</p>	<p>© 2025 TILTECO, INC</p> <p><b>TILTECO INC.</b> TILLIT TESTING &amp; ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530, Fax: (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167</p>	<p><b>ALUMINUM LOUVER SYSTEM MODEL FL-D-6</b></p> <p><b>S&amp;P AIR CONTROL, LLC.</b> 3005 SOUTH HICKORY ST. CHATTANOOGA, TN 37407 159 GENCO DRIVE HARTFORD, AL 36344 PHONE: (423)698-7715 FAX:(423)698-6629</p>	<p>W.H. DRAWN BY</p> <p>7/7/2025 DATE</p> <p><b>25-059</b> DRAWING No</p>																		
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE																
1	OLD 23-074	7/7/25	3	-	-																
2	-	-	4	-	-																

**MAX. MULLION SPAN (L ft) FOR A GIVEN A.S.D. DESIGN PRESSURE**

**RATING & MULLION SPACING FOR TYPE 8 CONNECTION\***

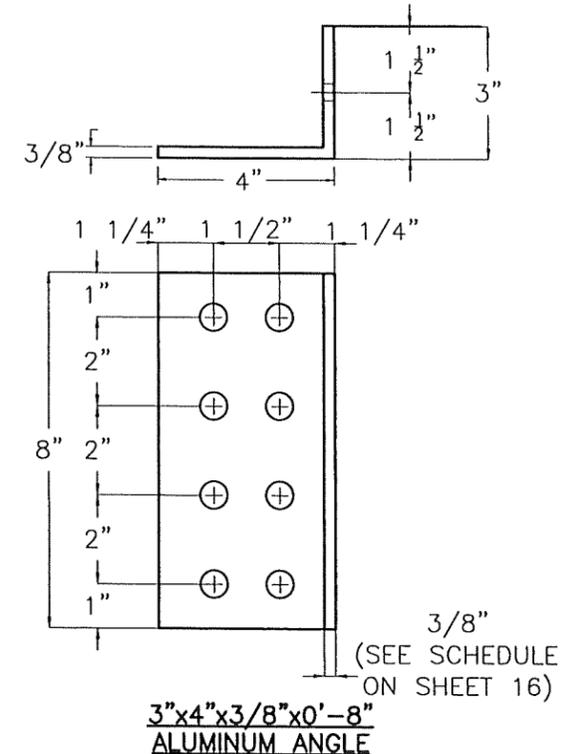
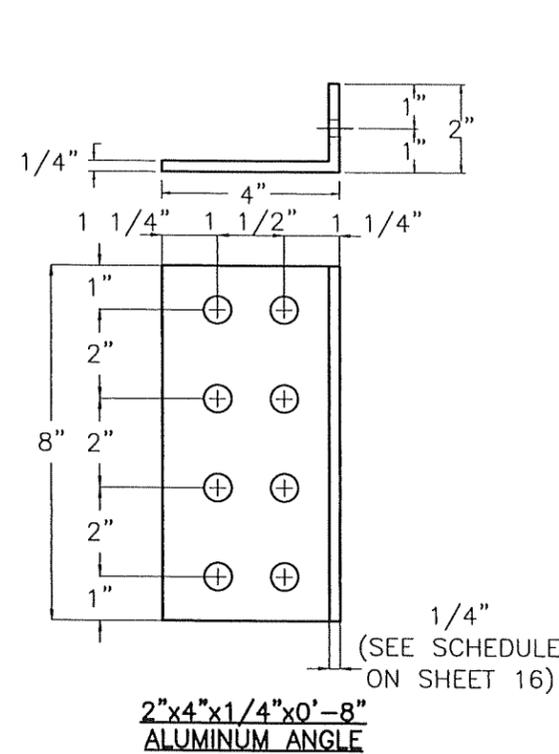
A.S.D. D.P.R. (psf)	MULLION SPACING				ASSEMBLY HEIGHT
	3	4	5	6	
30	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
50	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
70	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
90	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
100	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
110	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
120	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
130	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
140	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
150	12' - 0"	12' - 0"	12' - 0"	12' - 0"	

**TYPE 8 CONNECTION W/ 1/4" THICK ALUMINUM ANGLE\* TO STEEL**  
 8 - 3/8"Ø-16 MACHINE SCREWS W/ 1/8" MIN. MEMBER THICKNESS

**MAXIMUM MULLION SPAN (L ft) FOR A GIVEN DESIGN LOAD  
 & MULLION SPACING FOR TYPE 9 CONNECTION\***

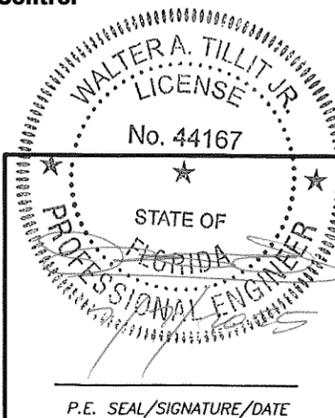
W (psf)	MULLION SPACING				ASSEMBLY HEIGHT
	3	4	5	6	
30	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
50	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
70	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
90	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
100	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
110	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
120	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
130	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
140	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
150	12' - 0"	12' - 0"	12' - 0"	12' - 0"	

**TYPE 9 CONNECTION W/ 3/8" THICK ALUMINUM ANGLE\* TO STEEL**  
 8 - 3/8"Ø-16 MACHINE SCREWS W/ 1/8" MIN. MEMBER THICKNESS



**SCHEDULE FOR MULLION CONNECTION TO STEEL**  
 (Min. Fy=33 ksi)

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 NOA-No. 25-0805.05  
 Expiration Date 01/17/2027  
 By *[Signature]*  
 Miami-Dade Product Control



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

© 2025 TILTECO, INC		<b>ALUMINUM LOUVER SYSTEM MODEL FL-D-6</b>		W.H. DRAWN BY																	
 TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530 Fax: (305)871-1531 e-mail: tilliteco@aol.com CA-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167		<b>S&amp;P AIR CONTROL, LLC.</b> 3005 SOUTH HICKORY ST. 159 GENCO DRIVE CHATTANOOGA, TN 37407 HARTFORD, AL 36344 PHONE: (423)698-7715 FAX:(423)698-6629		7/7/2025 DATE																	
		<table border="1"> <thead> <tr> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> <th>REV. No</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>OLD 23-074</td> <td>7/7/25</td> <td>3</td> <td>-</td> <td>-</td> </tr> <tr> <td>2</td> <td>-</td> <td>-</td> <td>4</td> <td>-</td> <td>-</td> </tr> </tbody> </table>		REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	OLD 23-074	7/7/25	3	-	-	2	-	-	4	-	-
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1	OLD 23-074	7/7/25	3	-	-																
2	-	-	4	-	-																

**\* NOTES:**

(1) SEE SHEET 9 FOR ADDITIONAL MAXIMUM MULLION SPAN LIMITATIONS FOR A GIVEN A.S.D. DESIGN PRESSURE RATING AND MAXIMUM SPACING. MAXIMUM MULLION SPAN SHALL BE THE MINIMUM BETWEEN SCHEDULES ON SHEET 9 AND THIS SHEET FOR A CONNECTION TYPE.

(2) SEE SHEET 16 FOR ANGLE SCHEDULE INDICATING MAXIMUM ALLOWABLE A.S.D. DESIGN PRESSURE RATING, MULLION SPACING AND MULLION SPAN FOR 1/4" THICK & 3/8" THICK ALUMINUM ANGLES USED TOP & BOTTOM FOR MULLION CONNECTION TO SUBSTRATE.

**SCHEDULE FOR MAX. MULLION SPAN FOR A GIVEN A.S.D. DESIGN PRESSURE  
RATING & MULLION SPACING IN ORDER TO USE 1/4" THICK ALUMINUM  
ANGLE FOR MULLION CONNECTION TO SUBSTRATE\***

A.S.D. D.P.R. (psf)	MULLION SPACING (ft)				ASSEMBLY HEIGHT
	3	4	5	6	
30	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
50	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
70	12' - 0"	12' - 0"	12' - 0"	12' - 0"	
90	12' - 0"	12' - 0"	12' - 0"	10' - 0"	
100	12' - 0"	12' - 0"	10' - 10"	9' - 0"	
110	12' - 0"	12' - 0"	9' - 10"	8' - 2"	
120	12' - 0"	11' - 3"	9' - 0"	7' - 6"	
130	12' - 0"	10' - 5"	8' - 4"	6' - 11"	
140	12' - 0"	9' - 8"	7' - 9"	6' - 5"	
150	12' - 0"	9' - 0"	7' - 2"	6' - 0"	

**\* NOTES:**

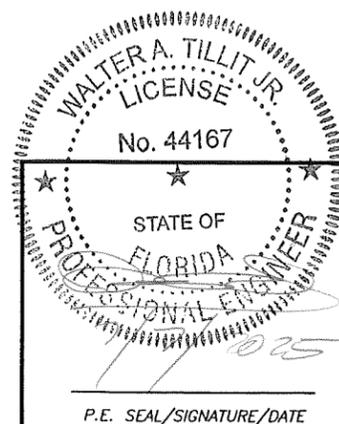
(1) ANY MULLION SPACING OR MULLION SPAN (ASSEMBLY HEIGHT) LARGER THAN THE ONES INCLUDED ON THIS SCHEDULE WILL REQUIRE A 3" x 4" x 3/8" THICK ALUMINUM ANGLE INSTEAD OF 2" x 4" x 1/4" THICK ALUMINUM ANGLE.

(2) SEE SHEET 12 FOR ADDITIONAL MAXIMUM MULLION SPAN (ASSEMBLY HEIGHT) LIMITATIONS FOR A GIVEN A.S.D. DESIGN PRESSURE RATING AND MAXIMUM SPACING. MAXIMUM MULLION SPAN (ASSEMBLY HEIGHT) SHALL BE THE MINIMUM BETWEEN SCHEDULES ON SHEETS 12 THRU 14 AND 15 FOR A CONNECTION TYPE, AND SCHEDULE ON THIS SHEET.

**1/2"Ø THRU BOLT REQUIREMENTS FOR CONNECTION OF  
ALUMINUM ANGLE TO MULLION FOR MULLION  
END CONNECTION TO SUBSTRATE.**

MULLION TYPE	1/2"Ø THRU BOLT REQUIRED
2"x6"	(1) REQUIRED
(2) 2"x6"	(2) REQUIRED & (1) EACH TUBE
4"x6" & 4"x8"	(2) REQUIRED

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 25-0805.05  
Expiration Date 01/17/2027  
By *[Signature]*  
Miami-Dade Product Control



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

© 2025 TILTECO, INC	<b>TILTECO inc.</b>	<b>ALUMINUM LOUVER SYSTEM MODEL FL-D-6</b>	W.H. DRAWN BY																	
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530, Fax: (305)871-1531 e-mail: tilteco@aol.com CA-0006719	WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167	<b>S&amp;P AIR CONTROL, LLC.</b> 3005 SOUTH HICKORY ST. CHATTANOOGA, TN 37407 159 GENCO DRIVE HARTFORD, AL 36344 PHONE: (423)698-7715 FAX:(423)698-6629	7/7/2025 DATE																	
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