

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

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

# NOTICE OF ACCEPTANCE (NOA)

SLAS INC. 13690 SW 142<sup>nd</sup> Avenue #28 Miami, Florida 33186

#### 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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: "Delta-301" Aluminum Accordion Shutter System

**APPROVAL DOCUMENT:** Drawing No. 10-07, titled "Delta-301 Aluminum Accordion Shutter", sheets 1 through 11 of 11, and sheet 7.1, prepared by Al-Farooq Corporation, dated December 06, 2010, last revision #E dated February 17, 2021, signed and sealed by Jalal Farooq, P.E., on February 18, 2021, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the 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, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, unless otherwise noted herein.

**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 revises & renews NOA # 18-0118.01 and consists of this page 1, evidence submitted pages E-1, E-2, E-3 & E-4 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.

MIAMI-DADE COUNTY
APPROVED

HSA.New 03/25/2021

NOA No. 21-0219.04 Expiration Date: 09/15/2026 Approval Date: 03/25/2021

Page 1

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

# 1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 11-0112.01

### A. DRAWINGS

1. Drawing No. 10-07, titled "Delta-301 Aluminum Accordion Shutter", sheets 1 through 11 of 11, prepared by Al-Farooq Corporation, dated December 06, 2010, signed and sealed by Javad Ahmad, P.E., on September 07, 2011.

#### B. TESTS

1. See Association's generic approval under 10-1211.

### C. CALCULATIONS

1. See Association's generic approval under 10-1211.

### D. QUALITY ASSURANCE

1. By Miami-Dade County Building and Neighborhood Compliance Department.

### E. MATERIAL CERTIFICATIONS

1. See Association's generic approval under 10-1211.

#### F. STATEMENTS

- 1. Release letter issued by the Delta Shutter Group & Associates, Inc., dated September 07, 2011, certifying this product to meet the criteria of product tested and approved, and allowing SLAS INC. to use the test results approved under Miami-Dade County Approval No. 10-1211, signed by Ms. Gabriela Gonzalez.
- 2. Acknowledgment letter by SLAS INC. dated September 07, 2011, signed by Ms. Gabriela Gonzalez.
- 3. Letter by Al-Farooq Corporation, dated January 07, 2011, certifying that the drawing (No. 10-07) prepared for SLAS INC., signed and sealed by Javad Ahmad, P.E., is engineering wise identical to Delta Shutter's generic drawing (No. 10-05).

# 2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-0215.04

### A. DRAWINGS

1. Drawing No. 10-07, titled "Delta-301 Aluminum Accordion Shutter", sheets 1 through 11 of 11, and sheet 7.1, prepared by Al-Farooq Corporation, dated December 06, 2010, last revision #A dated February 01, 2012, signed and sealed by Javad Ahmad, P.E., on March 20, 2012.

#### B. TESTS

1. See Association's generic approval under 12-0103.

### C. CALCULATIONS

1. See Association's generic approval under 12-0103.

Helmy A. Makar, P.E., M.S.

**Product Control Section Supervisor** 

NOA No. 21-0219.04

**Expiration Date: 09/15/2026 Approval Date: 03/25/2021** 

# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

1. By Miami-Dade County Department OF Permitting, Environment, and Regulatory Affairs.

E. MATERIAL CERTIFICATIONS

1. See Association's generic approval under 12-0103.

F. STATEMENTS

- 1. Release letter issued by the Delta Shutter Group & Associates, Inc., dated February 08, 2012, certifying this product to meet the criteria of product tested and approved, and allowing SLAS INC. to use the test results approved under Miami-Dade County Approval No. 12-0103, signed by Ms. Gabriela Gonzalez.
- 2. Acknowledgment letter by SLAS INC.,02/08/2012, signed by Ms. Gabriela Gonzalez.
- 3. Letter by Al-Farooq Corporation, dated March 13, 2012, certifying that the drawing (No. 10-07) prepared for SLAS INC., signed and sealed by Javad Ahmad, P.E., is engineering wise identical to Delta Shutter's generic drawing (No. 10-05).

# 3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 14-1103.03

A. DRAWINGS:

1. Drawing No. 10-07, titled "Delta-301 Aluminum Accordion Shutter", sheets 1 through 11 of 11, and sheet 7.1, prepared by Al-Farooq Corporation, dated 12/06/2010, last revision #B dated 10/20/2014, signed and sealed by Javad Ahmad, P.E., on 10/28/2014.

B. TESTS:

1. None.

C. CALCULATIONS:

1. Anchor calculation, dated October 17, 2014, 64 sheets, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., on October 28, 2014.

D. QUALITY CONTROL

1. By Miami-Dade County Department of Regulatory and Economic Resources.

E. MATERIAL CERTIFICATION:

1. None.

F. OTHERS

1. Letter prepared by Al-Farooq Corporation, dated October 17, 2014, signed and sealed by Javad Ahmad, P.E., on October 28, 2014, certifying that drawing #10-07 is in compliance with the 2014 Edition of the Florida Building Code.

Helmy A. Makar, P.E., M.S.

Product Control Section Supervisor

**Product Control Section Supervisor** 

NOA No. 21-0219.04 Expiration Date: 09/15/2026

**Approval Date: 03/25/2021** 

# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

# 4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 16-0712.01

### A. DRAWINGS:

1. Drawing No. 10-07, titled "Delta-301 Aluminum Accordion Shutter", sheets 1 through 11 of 11, and sheet 7.1, prepared by Al-Farooq Corporation, dated December 06, 2010, last revision #C dated July 27, 2016.

#### B. TESTS:

1. None.

### C. CALCULATIONS:

1. None.

### D. OUALITY CONTROL

1. By Miami-Dade County Department of Regulatory and Economic Resources.

### E. MATERIAL CERTIFICATION:

1. None.

### F. OTHERS

1. Letter prepared by Al-Farooq Corporation, dated July 28, 2016, signed and sealed by Javad Ahmad, P.E., on August 01, 2016, certifying that drawing #10-07 is in compliance with the 2014 Edition of the Florida Building Code.

# 5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 18-0118.01

#### A. DRAWINGS:

1. Drawing No. 10-07, titled "Delta-301 Aluminum Accordion Shutter", sheets 1 through 11 of 11, and sheet 7.1, prepared by Al-Farooq Corporation, dated December 06, 2010, last revision #D dated December 05, 2017.

#### B. TESTS:

1. None.

#### C. CALCULATIONS:

1. Anchor calculation, dated October 19, 2017, 33 sheets, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., on December 18, 2017.

### D. QUALITY CONTROL

1. By Miami-Dade County Department of Regulatory and Economic Resources.

# E. MATERIAL CERTIFICATION:

1. None.

Helmy A. Makar, P.E., M.S.

**Product Control Section Supervisor** 

NOA No. 21-0219.04 Expiration Date: 09/15/2026

Approval Date: 03/25/2021

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### F. OTHERS

 Letter prepared by Al-Farooq Corporation, dated October 19, 2017, signed and sealed by Javad Ahmad, P.E., on December 18, 2017, certifying that drawing #10-07 is in compliance with the 2014 Edition and 2017 Edition of the Florida Building Code.

#### 6. NEW EVIDENCE SUBMITTED

#### A. DRAWINGS:

1. Drawing No. 10-07, titled "Delta-301 Aluminum Accordion Shutter", sheets 1 through 11 of 11, and sheet 7.1, prepared by Al-Farooq Corporation, dated December 06, 2010, last revision #E dated February 17, 2021, signed and sealed by Jalal Farooq, P.E., on February 18, 2021.

#### B. TESTS:

1. None.

### C. CALCULATIONS:

1. Anchor calculation, dated February 10, 2021, 23 sheets, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., on February 10, 2021.

### D. QUALITY CONTROL

1. By Miami-Dade County Department of Regulatory and Economic Resources.

### E. MATERIAL CERTIFICATION:

1. None.

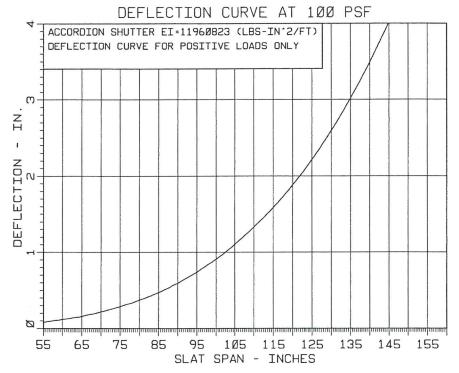
#### F. OTHERS

1. Letter prepared by Al-Farooq Corporation, dated February 10, 2021, signed and sealed by Jalal Farooq, P.E., on February 10, 2021, certifying that drawing #10-07 is in compliance with the 2020 Edition of the Florida Building Code.

Helmy A. Makar, P.E., M.S. Product Control Section Supervisor

NOA No. 21-0219.04

**Expiration Date: 09/15/2026 Approval Date: 03/25/2021** 

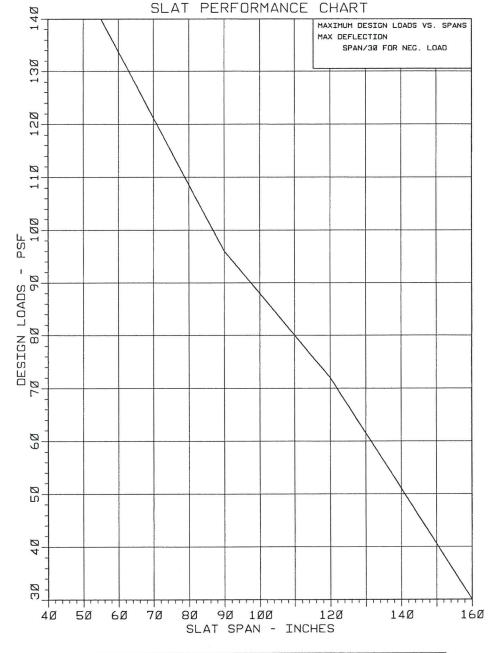


MINIMUM SEPARATION FROM GLASS								
SEPARATION REQD. DUE TO WIND LOAD USE CHART ABOVE SEPARATION REQD. DUE TO								
SHUTTER SPAN = H = IN. LARGE MISSILE IMPACT								
DESIGN LOAD = Pd = PSF FOR SLAT SPANS UPTO SEPARATION								
FACTOR = $K = Pd/100 = IN.$ 96" $2-3/4$ "								
READING FROM SPAN D. CURVE = D = IN. DEFLECTION AT Pd = K*D = IN. 120" 3-1/4" *								
MIN. SEPARATION REQD. = $K*D+1"$ = IN. 160" $4-3/8"$								
FOR INSTALLATIONS UPTO 30' OF GRADE USE MAXIMUM OF WIND LOAD OR IMPACT LOAD REQUIREMENTS SHOWN ABOVE								
FOR INSTALLATIONS ABOVE 30' OF GRADE IGNORE LARGE MISSILE IMPACT REQUIREMENT. NOTE: NO PART OF SHUTTER SHALL BE UNDER 30' ABOVE GRADE TO WAVE LARGE MISSILE IMPACT REQUIREMENT.								

\* LIMIT GLASS SEPARATION TO 3-1/2" WHEN CEILING HEADERS WITH BUILT OUT ANGLES ARE USED IN COMBINATION WITH SILL TRACK WITH ADAPTER.

#### GENERAL NOTES

- 1. THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2. DESIGN CRITERIA FOR ALUMINUM, MINIMUM MECHANICAL PROPERTIES, AND SAFETY FACTORS ARE IN ACCORDANCE WITH THE "ALUMINUM CONSTRUCTION MANUAL" LATEST EDITION.
- 3. ALUMINUM ALLOYS: ALL EXTRUSIONS SHALL BE ALLOY AS SHOWN
- 4. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.
- 5. ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- 6. ALL BOLTS SHALL BE STAINLESS STEEL, ALUMINUM ALLOY 2024-T4 OR 7075-T6, OR PLATED STEEL. WING NUTS TO BE OF ZINC ALLOY.
- 7. DESIGN CRITERIA FOR SLATS: MAX DEFLECTION  $\leq$  THE LESSER OF L/30 OR 2".
- THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.
- 9. A LOAD DURATION INCREASE IN ALLOWABLE STRESS IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
- 10. DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.



USE SLAT PERFORMANCE CHART TO VERIFY SLAT CAPACITY FOR THE REQUIRED DESIGN LOAD FOR THE PARTICULAR LOCATION.

DESIGN LOADS SHALL BE CALCULATED AS PER REQUIREMENTS OF ASCE 7-10.

#### PRODUCT MARKING

A LABEL SHALL BE AFFIXED ON LOCKING MEMBER OF UNIT ABOVE LOCK WITH THE FOLLOWING STATEMENT.

'MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED'

PRODUCT REVISED as complying with the Florida

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
ACCORDION/10-C

SHUTTER #28 7. 142 AVE. 33186 -1393 FAX(305) ഗ ≥ S.W FL. SLAS 13690 MIAMI, F TEL(305) 2

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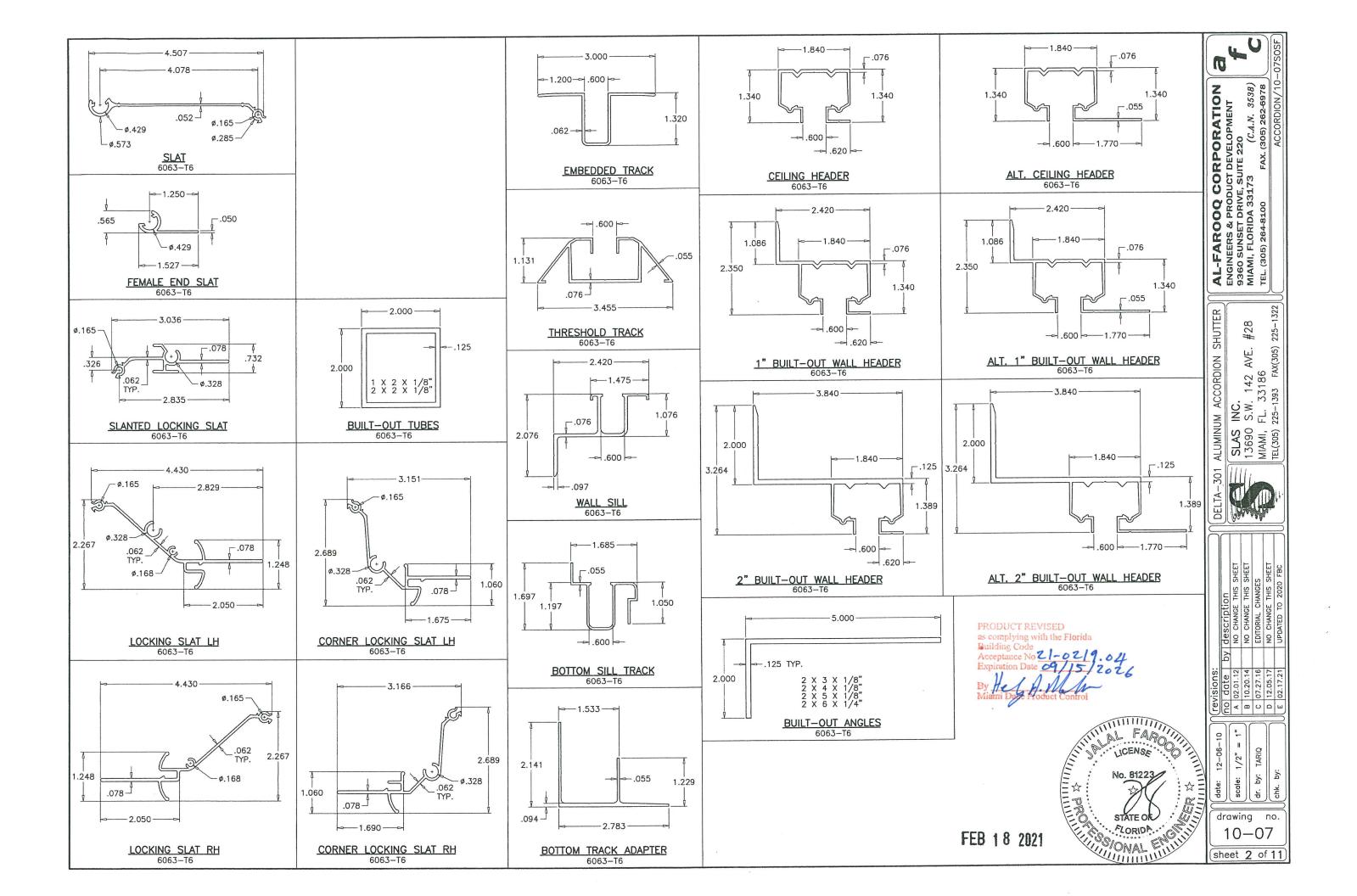
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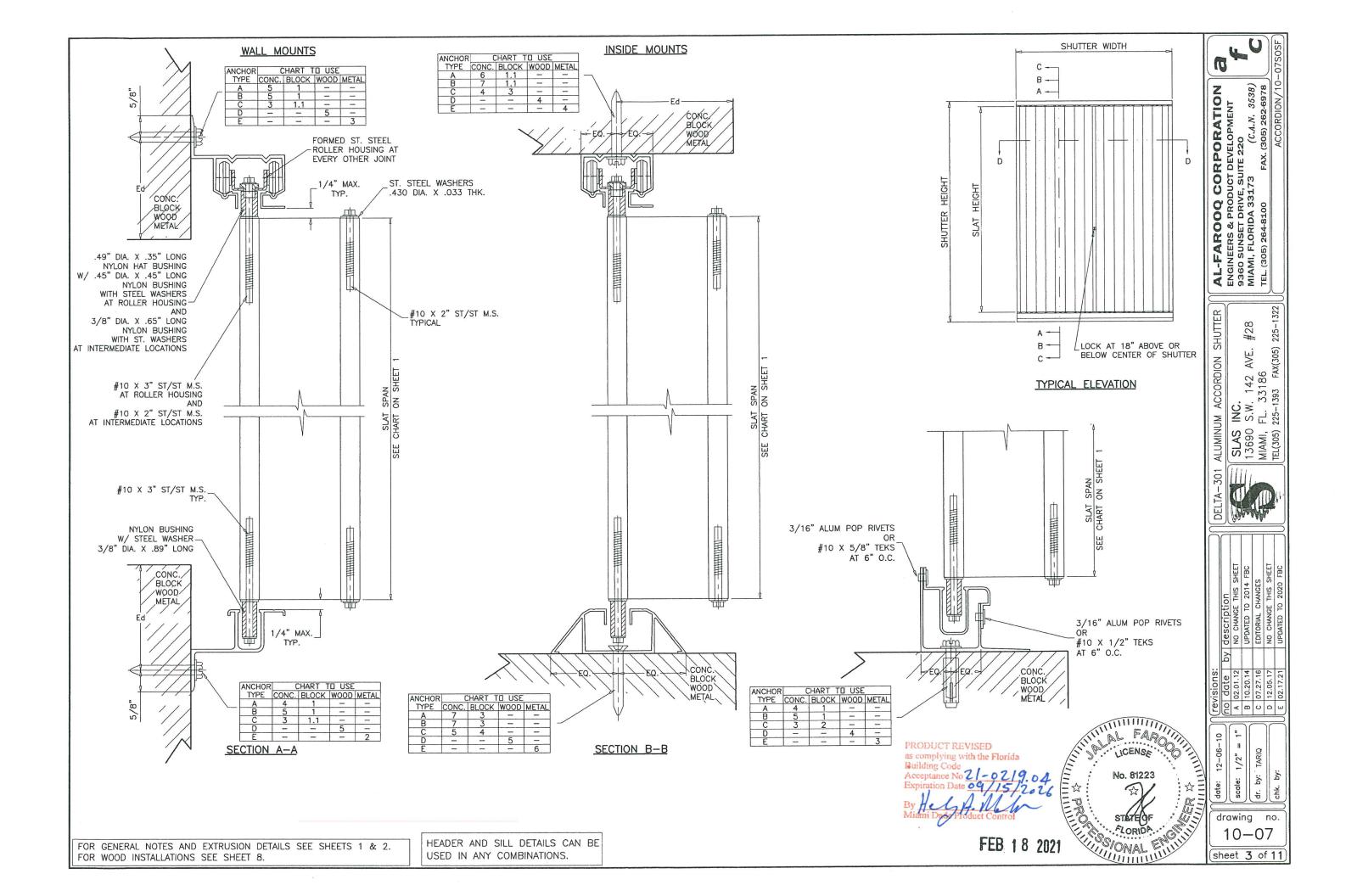
drawing no. 10-07

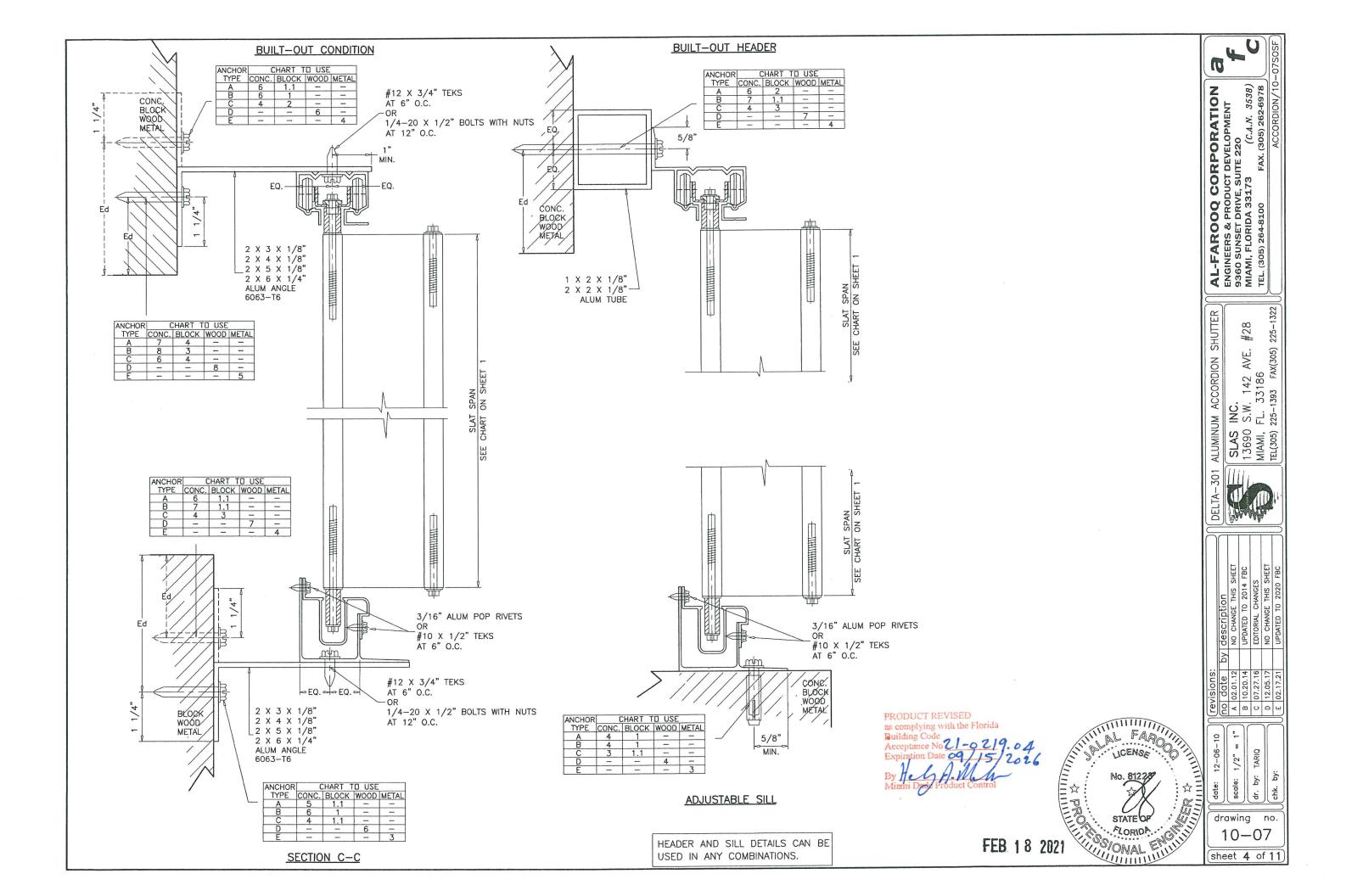
sheet 1 of 11

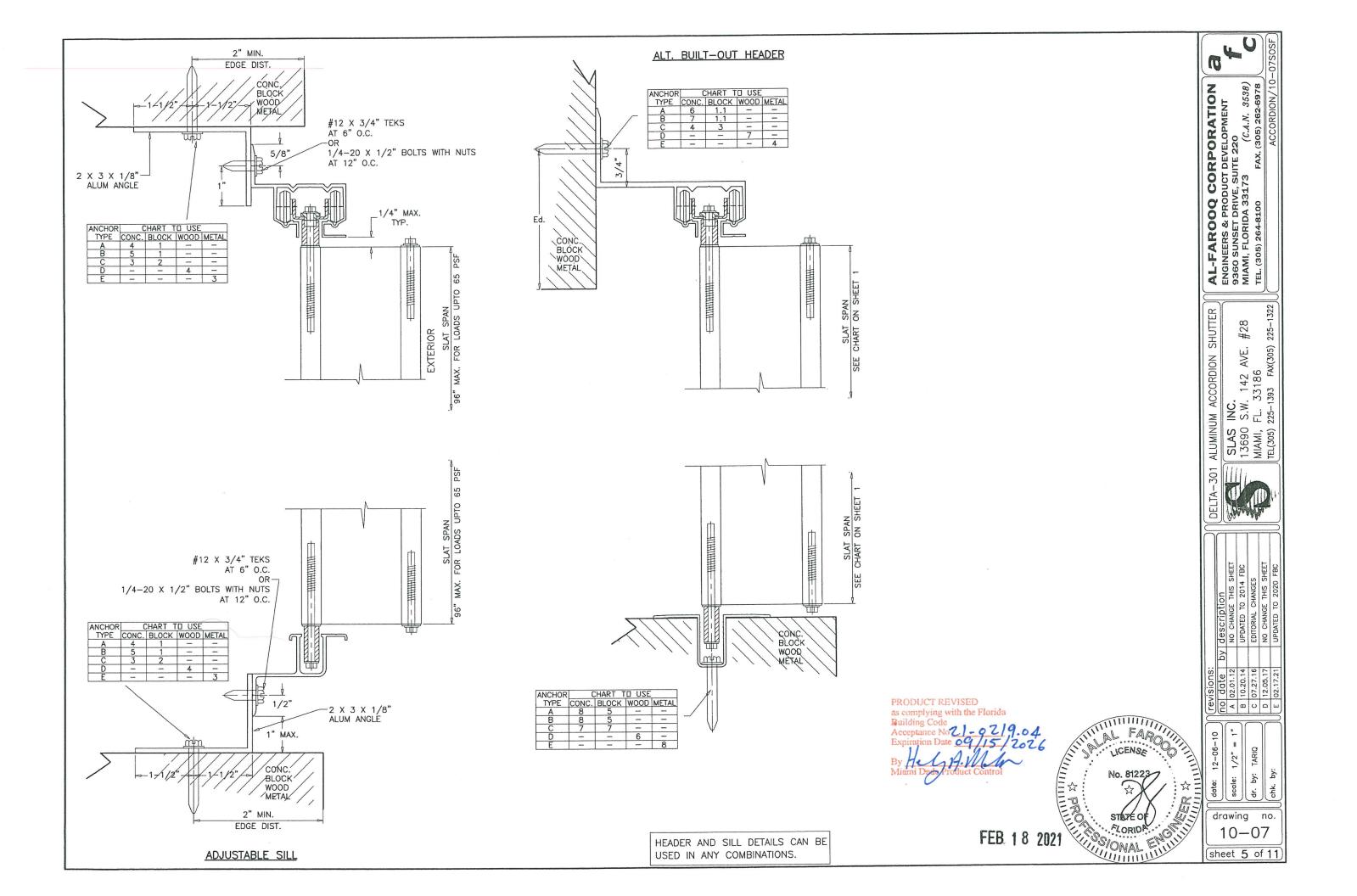
FEB 18 2021

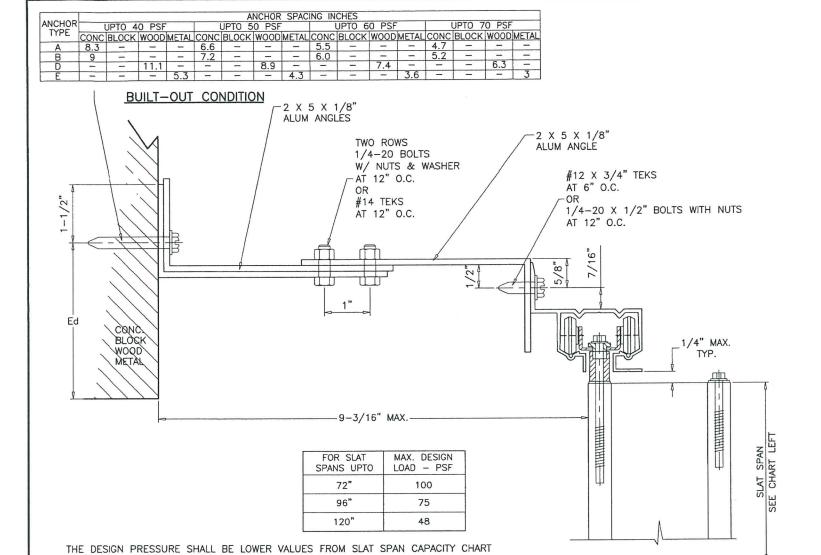
FOR INSTALLATION DETAILS SEE SHEETS 3 THRU 6.



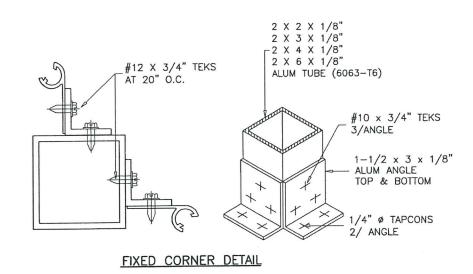


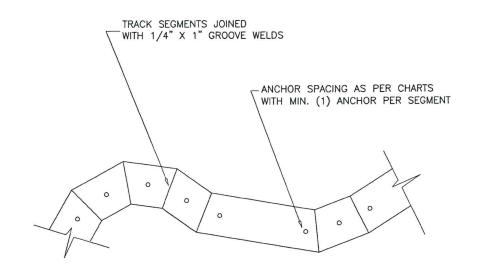






OR ANCHOR CAPACITY CHART.









FEB 18 2021

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	drawing no.	=		scale: 1/2" = 1	- /.	dr. by: TARIQ		chk, bv:

sheet 6 of 11

 AL-FAROOQ CORPORATION

 ENGINEERS & PRODUCT DEVELOPMENT

 9360 SUNSET DRIVE, SUITE 220

 MIAMI, FLORIDA 33173
 (C.A.N. 3538)

 TEL. (305) 264-8100
 FAX. (305) 262-6978

SHUTTER

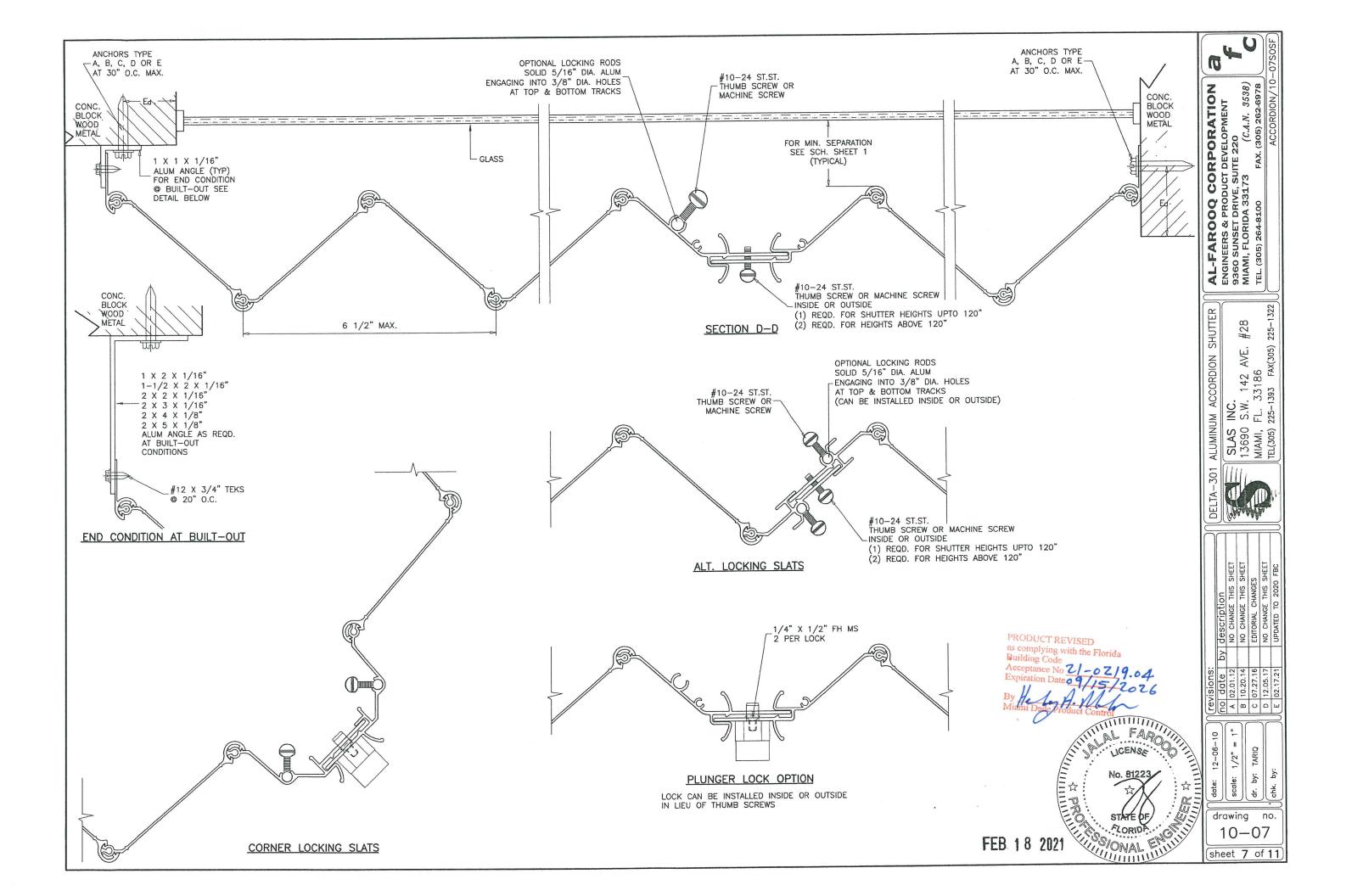
ALUMINUM

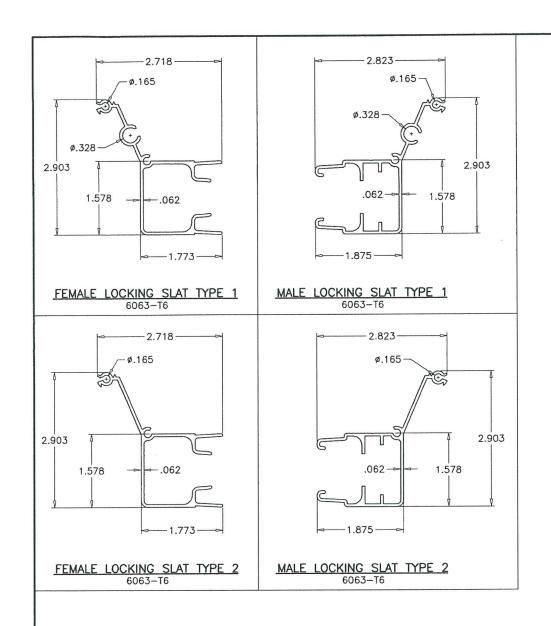
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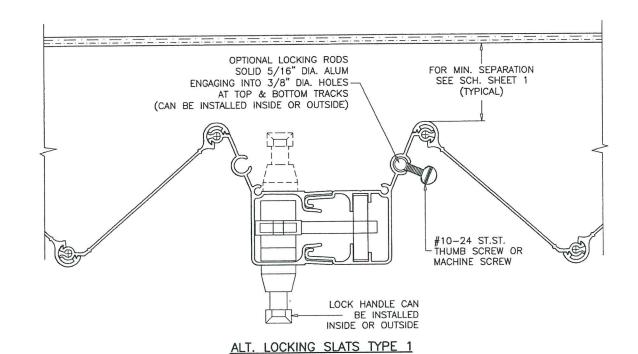
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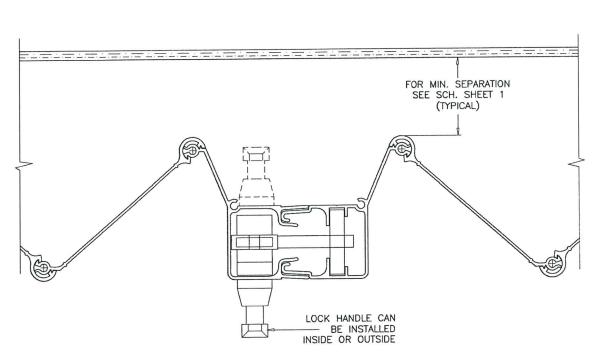
INC. 5 S.W. 142 AVE. # FL. 33186 7 225-1393 FAX(305) 2

SLAS 13690 MIAMI, F TEL(305) 2















by:

AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT

9360 SUNSET DRIVE, SUITE 220

MIAMI, FLORIDA 33173 (C.A.N. 3538)

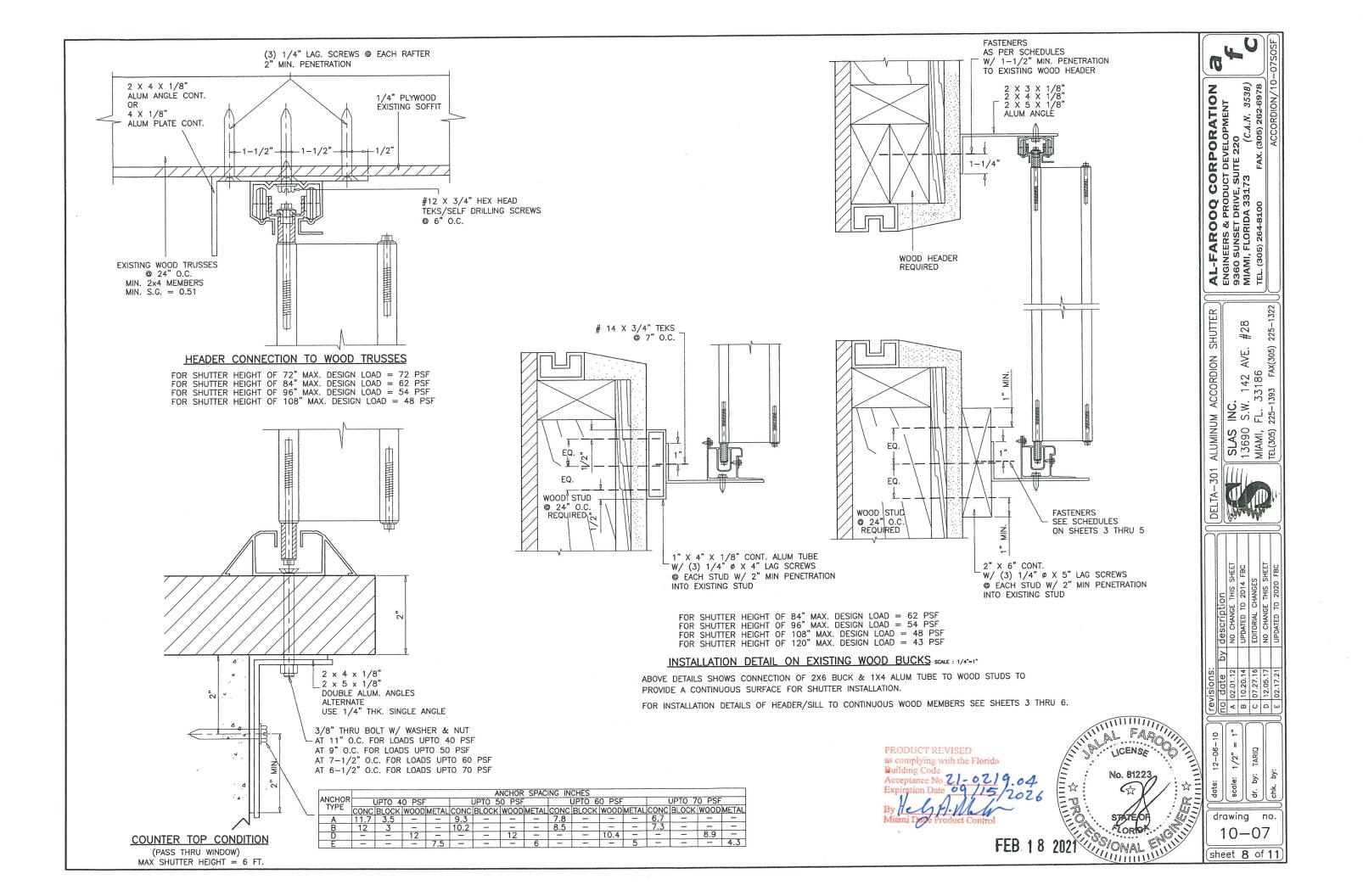
TEL. (305) 264-8100 FAX. (305) 262-6978

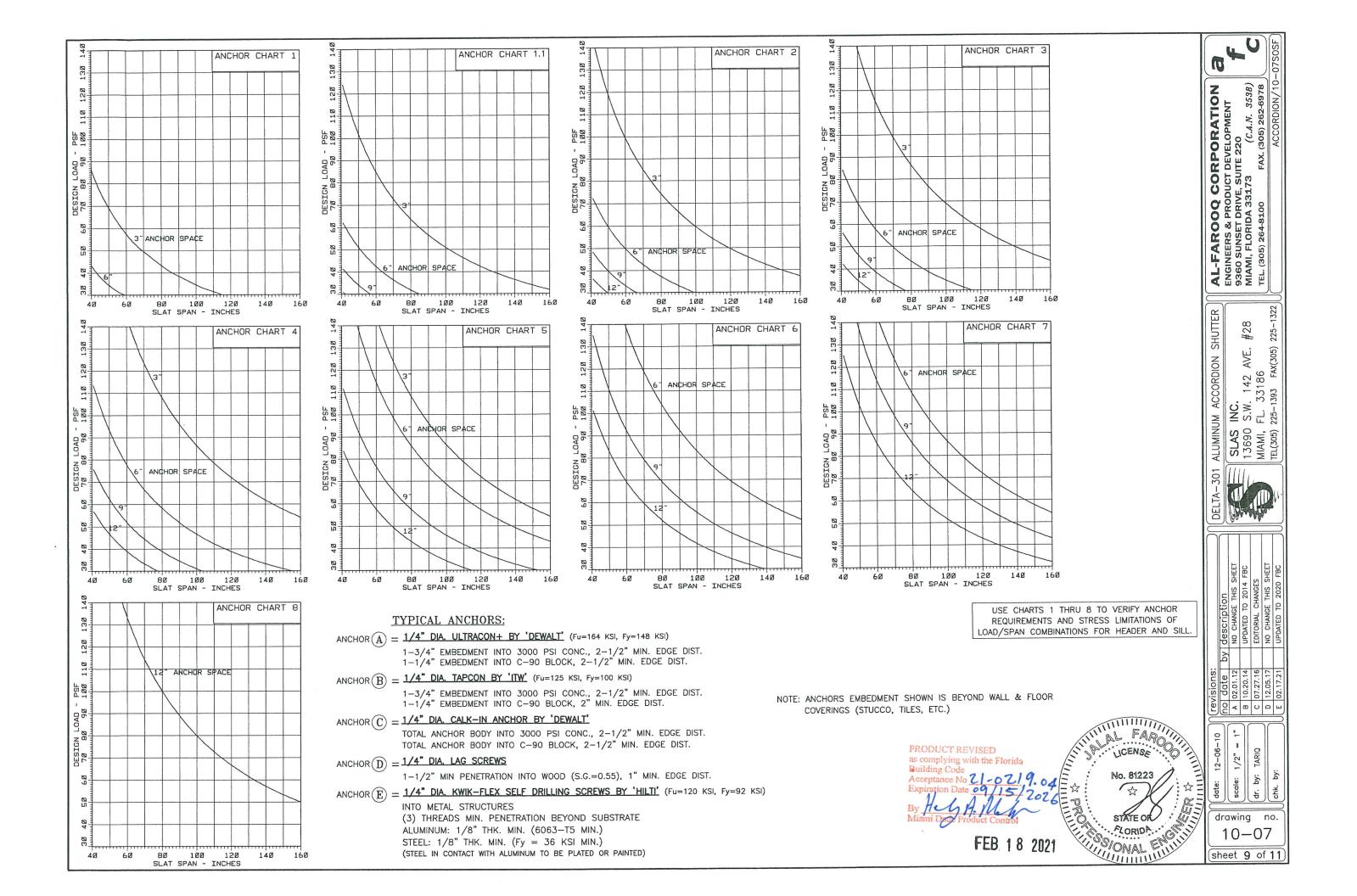
ACCORDION/10-0

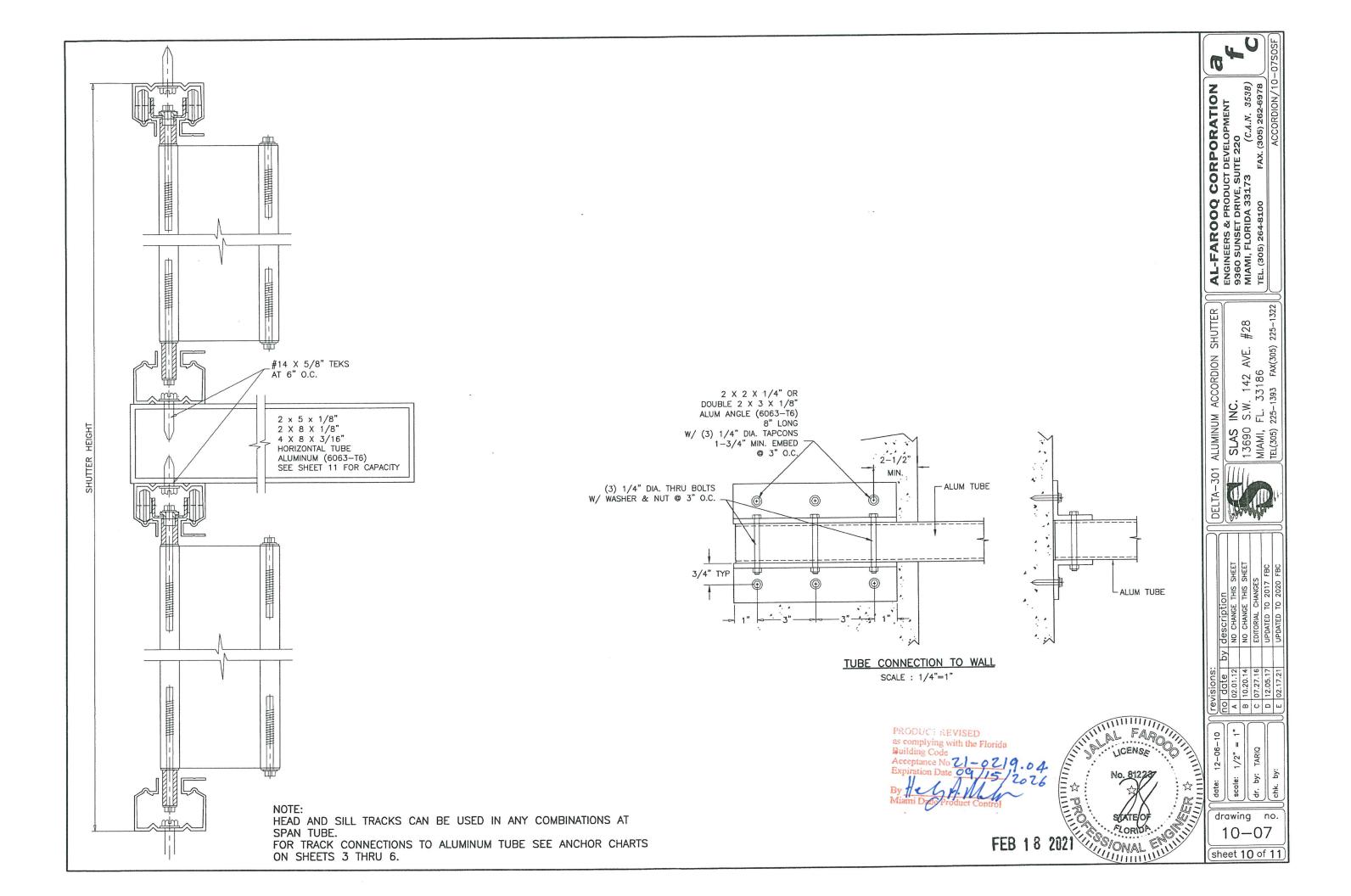
SHUTTER

225-1322

SLAS INC. 13690 S.W. 142 AVE. # MIAMI, FL. 33186 TEL(305) 225-1393 FAX(305) 2

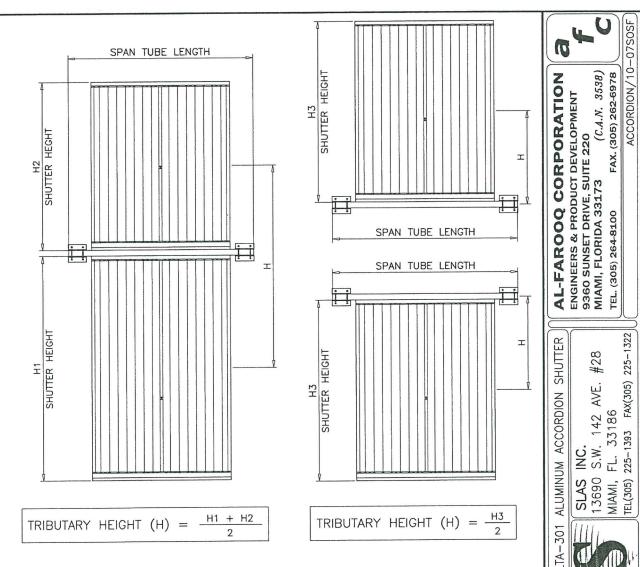






TRIBUTARY	SPAN TUBE		PACITY - PSF 2 X 8 X 1/8"	4 X 8 X 3/16
HEIGHT (H)	LENGTH	ALUM TUBE	ALUM TUBE	ALUM TUBE
48"		73.5	100.0	100.0
60"		58.8	100.0	100.0
72"		49.0	100.0	100.0
84"		42.0	86.8	100.0
96"		36.7	75.9	100.0
108"	96"	32.7	67.5	100.0
120"		_	60.7	100.0
132"		_ :	55.2	100.0
144"			50.6	100.0
156"		_	46.7	100.0
160"		-	45.6	100.0
48"		63.3	100.0	100.0
60"		50.7	100.0	100.0
72"		42.2	89.3	100.0
84"		36.2	76.6	100.0
96"		31.7	67.0	100.0
108"	102"		59.5	100.0
120"		_	53.6	100.0
132"			48.7	100.0
144"		_	44.7	99.5
156"		-	41.2	91.8
160"		-	40.2	89.6
48"		53.4	100.0	100.0
60"		42.7	95.2	100.0
72"		35.6	79.4	100.0
84"		30.5	68.0	100.0
96"		_	59.5	100.0
108"	108"	.—	52.9	100.0
120"		_	47.6	100.0
132"		-	43.3	96.6
144"		-	39.7	88.6
156"		-	36.6	81.7
160"		_	35.7	79.7
48"		45.4	100.0	100.0
60"		36.3	85.1	100.0
72"		30.3	70.9	100.0
84"		-	60.8	100.0
96"		-	53.2	100.0
108"	114"	_	47.3	100.0
120"		-	42.6	95.2
132"		-	38.7	86.5
144"		_	35.5	79.8
156"		-	32.7	73.2
160"		-	31.9	71.4
48"		38.9	95.7	100.0
60"		31.1	76.5	100.0
72"		33.6	63.8	100.0
84"		_	54.7	100.0
96"		_	47.8	100.0
108"	120"	_	42.5	95.2
120"		_	38.3	85.7
132"		_	34.8	77.9
144"		_	31.9	71.4
156"		-	_	65.9
160"	1		_	64.3

	D	ESIGN LOAD CAL	PACITY - PSF		
TRIBUTARY HEIGHT (H)	SPAN TUBE LENGTH	2 X 5 X 1/8" ALUM TUBE	2 X 8 X 1/8" ALUM TUBE	4 X 8 X 3/16' ALUM TUBE	
48"		_	86.5	100.0	
60"		_	69.2	100.0	
72"		-	57.6	100.0	
84"		-	49.4	100.0	
96"		-	43.2	97.0	
108"	126"	_	38.4	86.2	
120"	35.00	_	34.6	77.6	
132"		_	31.4	70.5	
144"		-	_	64.6	
156"		_	-	59.7	
160"			_	58.2	
48"		-	78.5	100.0	
60"		-	62.8	100.0	
72"		-	52.3	100.0	
84"		-	44.9	100.0	
96"		-	39.2	88.2	
108"	132"	-	34.9	78.4	
120"		_	31.4	70.5	
132"		_	-	64.1	
144"		-	-	58.8	
156"		-	-	54.3	
160"		-	_	52.9	
48"		-	71.6	100.0	
60"		-	57.2	100.0	
72"		-	47.7	100.0	
84"		-	40.9	92.0	
96"		-	35.8	80.5	
108"	138"	-	31.8	71.6	
120"		-	_	64.4	
132"		-	-	58.5	
144"		_	_	53.7	
156"		-	-	49.5	
160"		-	_	48.3	
48"		_	65.5	100.0	
60"		_	52.4	100.0	
72"		-	43.7	98.4	
84"		_	37.4	84.3	
96"		_	32.7	73.8	
108"	144"	-	_	65.6	
120"		_	_	59.0	
132"		_	.—.	53.7	
144"		_	_	49.2	
156"		_	_	45.4	
160"		_	_	44.3	



# TYPICAL ELEVATIONS



FEB 18 2021



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SLAS INC. 13690 S.W. 142 AVE. #28 MIAMI, FL. 33186 TEL(305) 225-1393 FAX(305) 225-1322