

SLAT PERFORMANCE CHART			
DESIGN LOADS PSF EXT./INT.	SLAT SPAN INCHES	MIN. GLASS SEPARATION REQUIRED	
		FOR INSTALLATIONS BELOW 30 FT. OF GRADE	FOR INSTALLATIONS ABOVE 30 FT. OF GRADE
60	156	3-1/4"	3-1/4"
65	150	3-1/4"	3-1/4"
70	144	2-7/8"	2-7/8"
75	138	2-7/8"	2-7/8"
80	132	2-7/8"	2-7/8"
85	126	2-7/8"	2-7/8"
90	120	2-7/8"	2-1/2"
95	118.8	2-7/8"	2-1/2"
100	117.5	2-7/8"	2-1/2"
105	116.3	2-7/8"	2-1/2"
110	115	2-7/8"	2-1/2"
115	113.8	2-7/8"	2-1/2"
120	112.5	2-7/8"	2-1/2"
125	111.3	2-7/8"	2-1/2"
130	110	2-7/8"	2-1/2"
135	108.8	2-7/8"	2-1/2"
140	107.5	2-7/8"	2-1/2"
145	106.3	2-7/8"	2-1/2"
150	105	2-7/8"	2-1/2"
155	101.8	2-7/8"	2-1/2"
160	98.6	2-7/8"	2"
165	95.4	2-7/8"	2"
170	92.1	2-7/8"	2"
175	88.9	2-7/8"	2"
180	85.7	2-7/8"	2"
185	82.5	2-7/8"	2"
190	79.3	2-7/8"	1-1/2"
195	76.1	2-7/8"	1-1/2"
200	72.9	2-7/8"	1-1/2"
205	69.6	2-7/8"	1-1/2"
210	66.4	2-7/8"	1-1/2"
215	63.2	2-7/8"	1-1/2"
220	60	2-1/4"	1-1/2"

DESIGN LOADS SHALL BE CALCULATED AS PER REQUIREMENTS OF ASCE 7-16.

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".
8. 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 IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
10. DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.
11. MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

Sealed: 3/31/2021 FL #26525

A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.

B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



af c
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/19-72F-SSJ

Wind-Defense High Velocity Alum. Accordion Shutter
SMART SHUTTERS, INC.
3070 N.W. 72nd Avenue
Miami, FL. 33122
Tel. (786) 348-4151 Fax. (305) 503-6767

revisions:	
no	date
A	103.26.21
description	
UPDATED TO 2020 FBC	
date:	08-14-19
scale:	-
dr. by:	TARIQ
chk. by:	
drawing no.	
19-72F	
sheet 1 of 8	

1 1/4"

Ed

CONC. BLOCK WOOD METAL

ST. STEEL WHEEL CARRIAGE WITH NYLON WHEELS

1/4" MAX. TYP.

#14 X 3" S.M.S. STAINLESS STEEL TYP.

1/4" MAX. TYP.

Ed

CONC. BLOCK WOOD METAL

1 1/4"

ANCHOR TYPE	TABLE NO. TO USE			
	CONC.	BLOCK	WOOD	METAL
A	5	2	—	—
B	5	2	—	—
D	6	2	—	—
E	—	—	5	—
G	—	—	—	3

HAT WASHER NYLON

.500 DIA X .625" NYLON BUSHING

.500 DIA X .910" NYLON BUSHING

SLAT SPAN SEE GRAPH

SECTION A-A

FOR GENERAL NOTES AND EXTRUSION DETAILS SEE SHEETS 1 & 2.
FOR WOOD INSTALLATIONS SEE SHEET 6 OF 8.
FOR ANCHOR TABLES SEE SHEET 7 OF 8.

ANCHOR TYPE	TABLE NO. TO USE			
	CONC.	BLOCK	WOOD	METAL
A	5	2	—	—
B	5	2	—	—
D	6	2	—	—
E	—	—	5	—
G	—	—	—	3

DOUBLE END PLATE CONNECTION

ANCHOR TYPE

ANCHOR TYPE	TABLE NO. TO USE		
	CONC.	BLOCK	WOOD METAL
A	5	3	—
B	6	2	—
D	5	2	—
E	—	—	4
G	—	—	3

Ed

EQ.

CONC. BLOCK WOOD METAL

FOR MIN. SEPARATION SEE SHEET 1 TYP.

#10 X 3/4" TEKS AT 6" FROM ENDS AND 12" O.C. MAX.

2" MAX.

#10 AT AND

3/4"

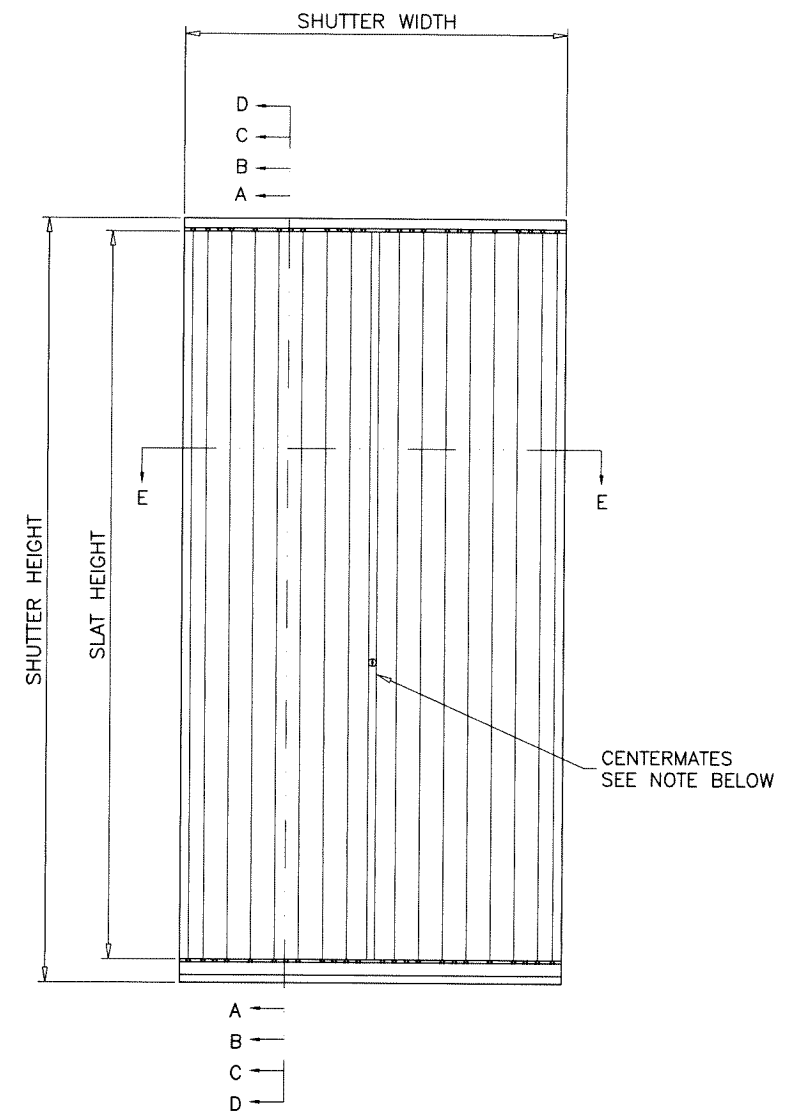
CONC. BLOCK WOOD METAL

Ed

SLAT SPAN SEE GRAPH

CAL EDGE DISTANCE
& BLOCK = 12d (12 ANCHOR DIAMETERS)
= 5d
CSSER EDGE DISTANCES SEE SHEET 7 OF 8.

ANCHORS: EMBEDMENT & EDGE
DISTANCES SHOWN ARE BEYOND
THE WALL & FLOOR COVERING
(STUCCO, TILES, ETC.)

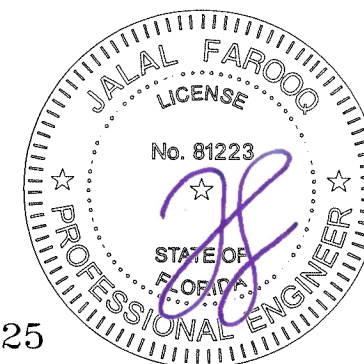


TYPICAL ELEVATION

HEADER AND SILL DETAILS CAN BE
USED IN ANY COMBINATIONS.

Sealed: 3/31/2021

FL #26525



Wind-Defense High Velocity Alum. Accordion Shutter

SMART SHUTTERS, INC.

3070 N.W. 72nd Avenue
Miami, FL 33122

Miami, FL. 33122

Tel. (786) 348-4151

Fax: (305) 503-6767

AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220

9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)

TEL. (305) 264-8100 FAX. (305) 262-6978 (C.A.A.; 3030)

TEL: (000) 204 0100 FAX: (000) 202-0918

(303) 202-8378

revisions:

© 2006 Pearson Education, Inc. All rights reserved. Printed in the United States of America. This publication is protected by copyright. Any unauthorized reproduction or distribution without written permission from Pearson Education, Inc., may result in legal action.

no	date	by	description
1	1990	...	...

date: 08-14-19

© 2004 Blackwell Publishing Ltd, *Journal of Internal Medicine* 255: 103–110

0
1
2
3
4

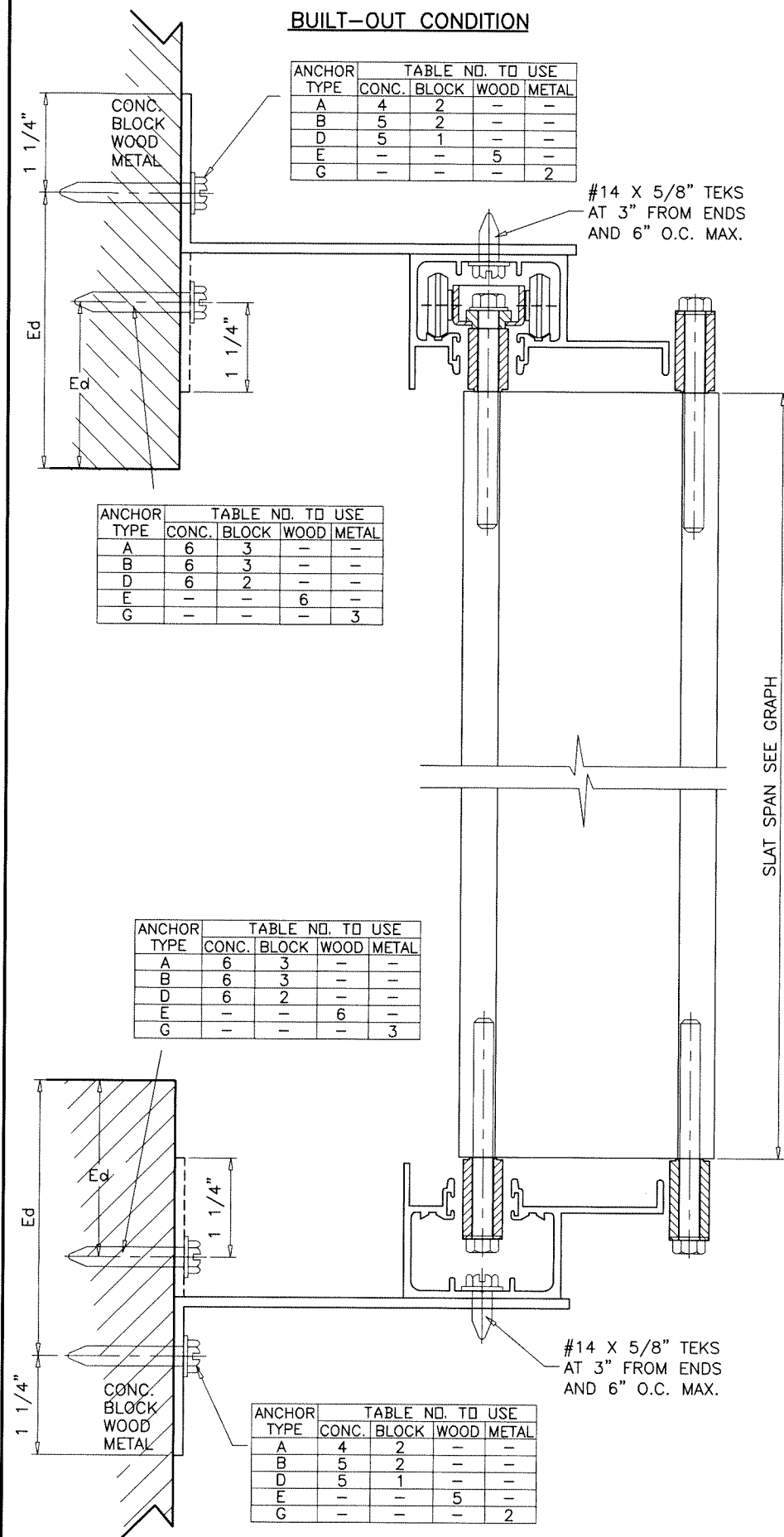
...uy. |ARIQ

by: IARIQ

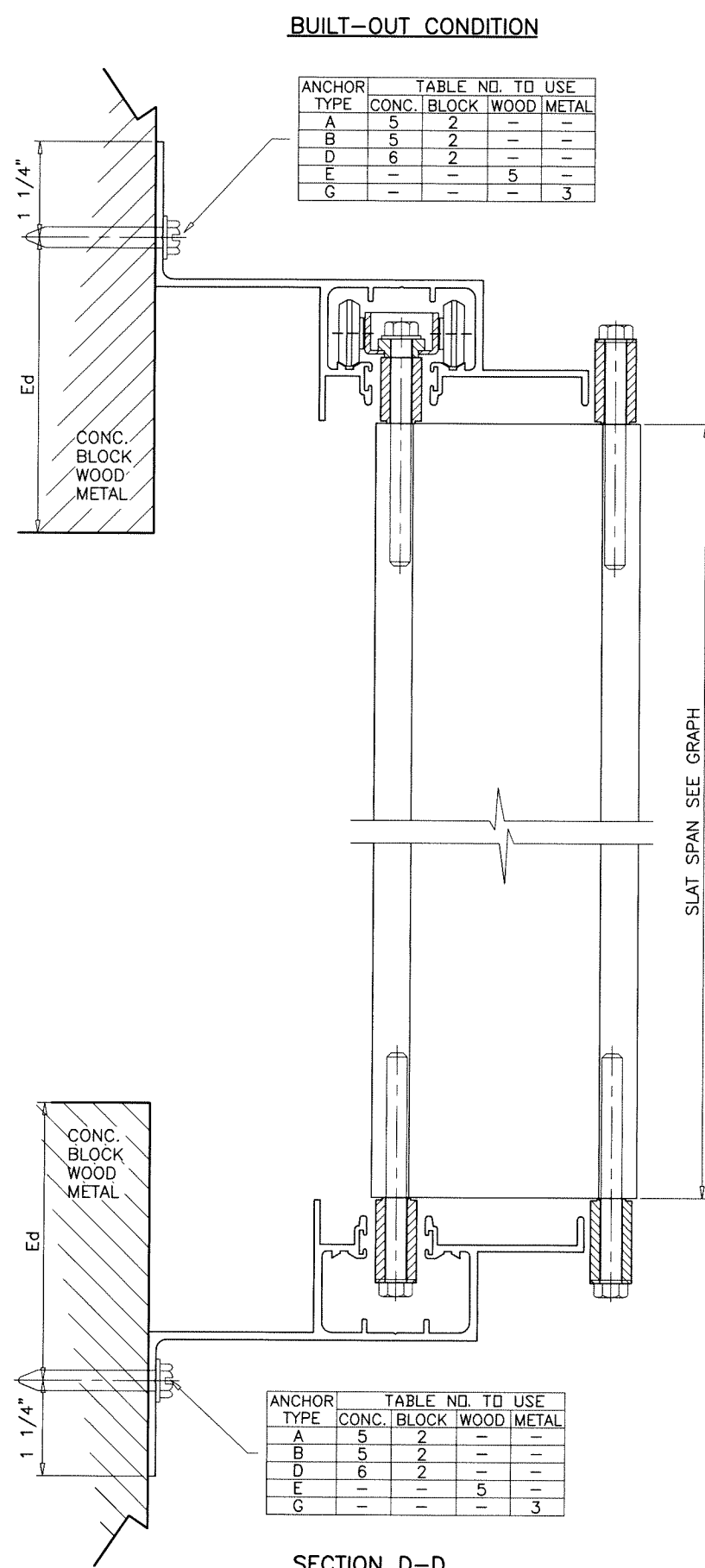
drawing no.

19-72F

sheet 3 of 8



SECTION C-C

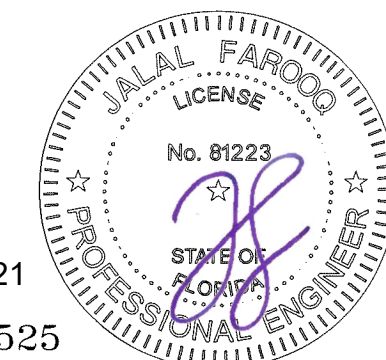


SECTION D-D

HEADER AND SILL DETAILS CAN BE
USED IN ANY COMBINATIONS.

Sealed: 3/31/2021

FL #26525



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

Wind-Defense High Velocity Alum. Accordion Shutter

SMART SHUTTERS, INC.
3070 N.W. 72nd Avenue
Miami, FL. 33122

Fax. (305) 503-6767

revisions:	no	date	by	description

date: 08-14-19
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.

19-72F

sheet 4 of 8

Fax. (305) 503-6767

Tel. (786) 348-4151

revisions:	no	date	by	description

date: 08-14-19
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.

19-72F

sheet 4 of 8

Fax. (305) 503-6767

Tel. (786) 348-4151

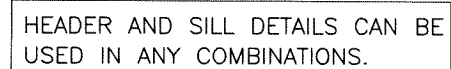
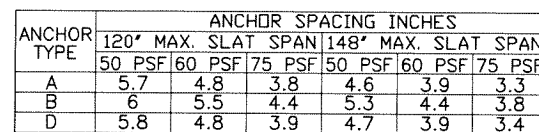
revisions:	no	date	by	description

date: 08-14-19
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

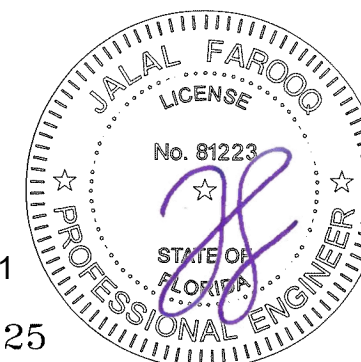
drawing no.

19-72F

sheet 4 of 8



FL #26525



date: 08-14-19		revisions:	
scale: 1/2" = 1"	no	date	by description
dr. by: TARIQ			
chk. by:			

Wind-Defense High Velocity Alum. Accordion Shutter

SMART SHUTTERS, INC.

3070 N.W. 72nd Ave.
Miami, FL 33122

Tel. (786) 348-4151 Fax. (305) 503-6767

AL-FAROOQ CORPORATION

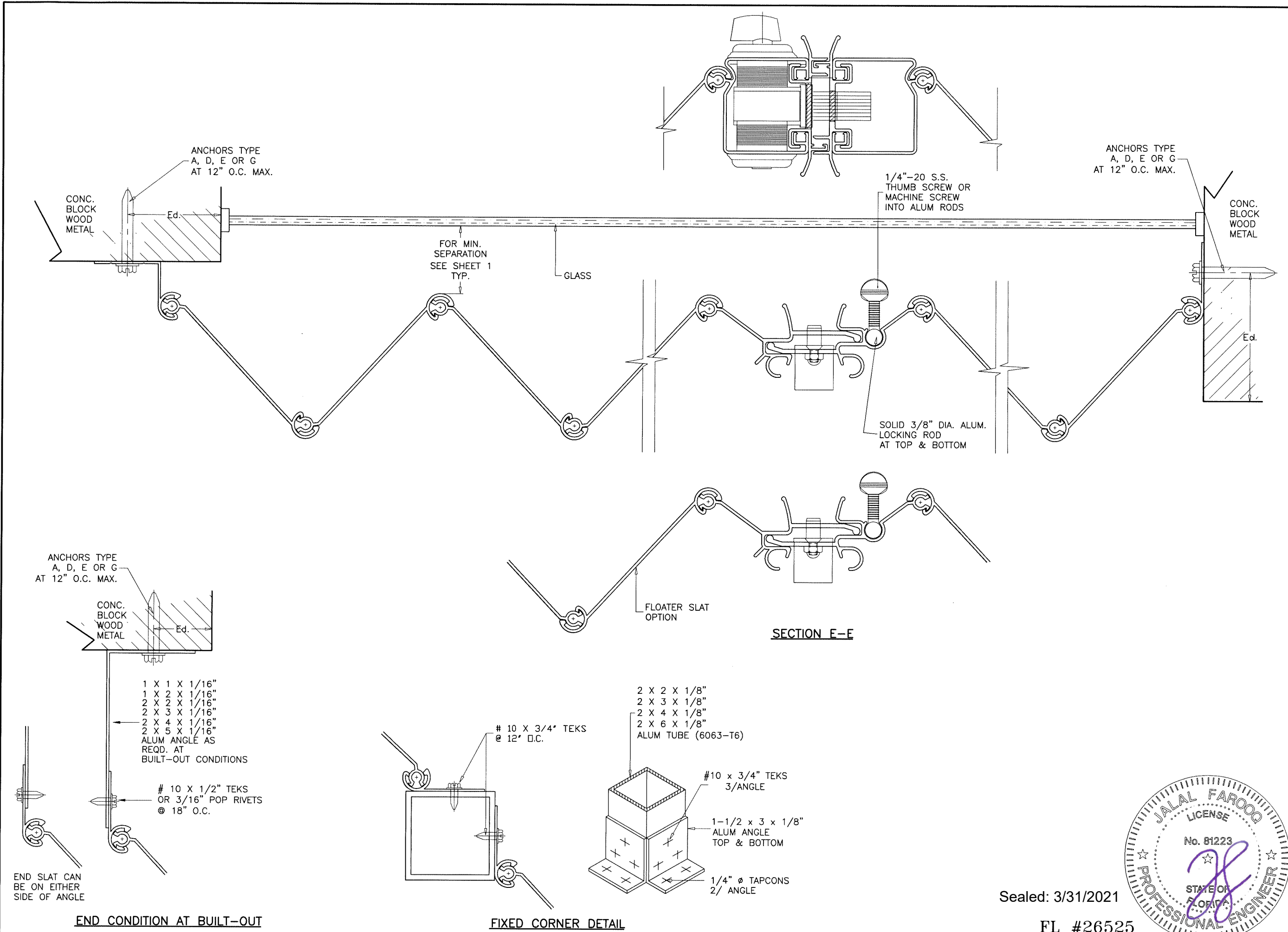
AL-FAROUQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE SUITE 220

9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)

MIAMI, FLORIDA 33136
TEL. (305) 264-8100

(C.A.N. 3538)
FAX. (305) 262-6978

ACCORDION/19-72F-SSI



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978

ACCORDION/19-72F-SSI

Wind-Defense High Velocity Alum. Accordion Shutter

SMART SHUTTERS, INC.
3070 N.W. 72nd Avenue
Miami, FL 33122
Tel. (786) 348-4151 Fax. (305) 503-6767

19-72F

revisions:		date		description	
no	date	no	date	no	description

date: 08-14-19

scale: 1/2" = 1"

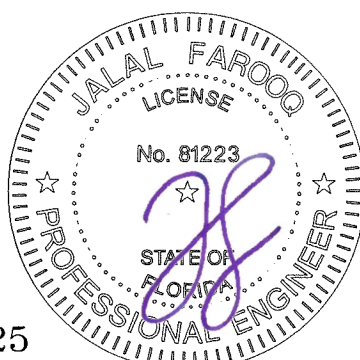
dr. by: TARIQ

chk. by:

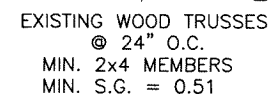
drawing no.

19-72F

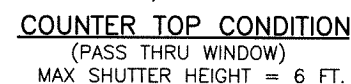
sheet 5 of 8



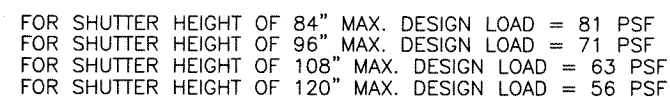
Sealed: 3/31/2021
FL #26525



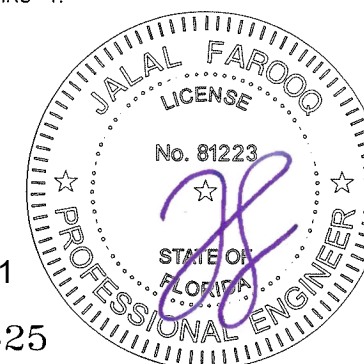
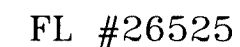
FOR SHUTTER HEIGHT OF 72" MAX. DESIGN LOAD = 94 PSF
FOR SHUTTER HEIGHT OF 84" MAX. DESIGN LOAD = 81 PSF
FOR SHUTTER HEIGHT OF 96" MAX. DESIGN LOAD = 71 PSF
FOR SHUTTER HEIGHT OF 108" MAX. DESIGN LOAD = 63 PSF



ANCHOR TYPE	ANCHOR SPACING INCHES															
	UPTO 50 PSF				UPTO 60 PSF				UPTO 75 PSF				UPTO 104 PSF			
	CONC	BLK.	WOOD	METAL	CONC	BLK.	WOOD	METAL	CONC	BLK.	WOOD	METAL	CONC	BLK.	WOOD	METAL
A	6	5	—	—	6	4.1	—	—	6	3.3	—	—	4.8	2.4	—	—
B	6	4.9	—	—	6	4	—	—	6	3.2	—	—	5.8	2.3	—	—
E	—	—	6	—	—	6	—	—	—	6	—	—	—	6	—	—
G	—	—	6	—	—	—	5.7	—	—	—	4.6	—	—	—	—	3.3



FOR INSTALLATION DETAILS OF HEADER/SILL TO CONTINUOUS WOOD MEMBERS SEE SHEETS 3 THRU 4.



ACCORDION/19-72F-SSI

sheet 6 of 8

TABLE NO. 1

SLAT SPAN INCHES	MAX. DESIGN LOADS - PSF	
	ANCHOR SPACING AT 3" O.C.	ANCHOR SPACING AT 6" O.C.
40	115.2	57.6
50	92.2	46.1
60	76.8	38.4
70	65.8	32.9
80	57.6	28.8
90	51.2	25.6
100	46.1	23.0
110	41.9	20.9
120	38.4	-
130	35.4	-
140	32.9	-
150	30.7	-
156	29.5	-

TABLE NO. 2

SLAT SPAN INCHES	MAX. DESIGN LOADS - PSF	
	ANCHOR SPACING AT 3" O.C.	ANCHOR SPACING AT 6" O.C.
40	177.6	88.8
50	142.1	71.0
60	118.4	59.2
70	101.5	50.7
80	88.8	44.4
90	78.9	39.5
100	71.0	35.5
110	64.6	32.3
120	59.2	29.6
130	54.6	27.3
140	50.7	25.4
150	47.4	23.7
156	45.6	22.7

TABLE NO. 3

SLAT SPAN INCHES	MAX. DESIGN LOADS - PSF	
	ANCHOR SPACING AT 3" O.C.	ANCHOR SPACING AT 6" O.C.
40	220.0	126.0
50	201.6	100.8
60	168.0	84.0
70	144.0	72.0
80	126.0	63.0
90	112.0	56.0
100	100.8	50.4
110	91.6	45.8
120	84.0	42.0
130	77.5	38.8
140	72.0	36.0
150	67.2	33.6
156	64.8	32.3

TABLE NO. 4

SLAT SPAN INCHES	MAX. DESIGN LOADS - PSF	
	ANCHOR SPACING AT 3" O.C.	ANCHOR SPACING AT 6" O.C.
40	220.0	184.8
50	220.0	147.8
60	220.0	123.2
70	192.0	105.6
80	168.0	92.4
90	149.3	82.1
100	134.4	73.9
110	122.2	67.2
120	112.0	61.6
130	103.4	56.9
140	96.0	52.8
150	89.6	49.3
156	86.5	47.5

TABLE NO. 5

SLAT SPAN INCHES	MAX. DESIGN LOADS - PSF	
	ANCHOR SPACING AT 3" O.C.	ANCHOR SPACING AT 6" O.C.
40	220.0	217.2
50	220.0	173.8
60	220.0	144.8
70	192.0	124.1
80	168.0	108.6
90	149.3	96.5
100	134.4	86.9
110	122.2	79.0
120	112.0	72.4
130	103.4	66.8
140	96.0	62.1
150	89.6	57.9
156	86.5	55.9

TABLE NO. 6

SLAT SPAN INCHES	MAX. DESIGN LOADS - PSF	
	ANCHOR SPACING AT 3" O.C.	ANCHOR SPACING AT 6" O.C.
40	220.0	220.0
50	220.0	220.0
60	220.0	188.8
70	192.0	161.8
80	168.0	141.6
90	149.3	125.9
100	134.4	113.3
110	122.2	103.0
120	112.0	94.4
130	103.4	87.1
140	96.0	80.9
150	89.6	75.5
156	86.5	72.9

ALL TRACK ANCHORS AT 3 IN. FROM ENDS
AND SPACED AS PER TABLES

TYPICAL ANCHORS:

ANCHOR (A) = 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
1-3/4" EMBEDMENT INTO 3000 PSI CONC.
2-3/4" EMBEDMENT INTO GROUT FILLED C-90 BLOCK

ANCHOR (B) = 1/4" DIA. KWIK-CON II+ BY 'HILTI' (Fu=138 KSI, Fy=137 KSI)
1-3/4" EMBEDMENT INTO 3000 PSI CONC.
1-1/4" EMBEDMENT INTO C-90 BLOCK

ANCHOR (D) = 1/4" BOLT DIA. MULTI-SET II DROP-IN ANCHOR BY 'ITW'
TOTAL ANCHOR BODY INTO 3000 PSI CONC.

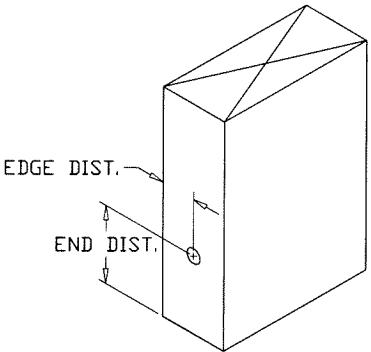
ANCHOR (E) = 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
2" MIN PENETRATION INTO WOOD (S.G.=0.55)

ANCHOR (G) = 1/4" DIA. KWIK-FLEX SELF DRILLING SCREWS BY 'HILTI' (Fu=120 KSI, Fy=92 KSI)
INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

NOTE: ANCHORS EMBEDMENT SHOWN IS BEYOND WALL & FLOOR
COVERINGS (STUCCO, TILES, ETC.)

FASTENER SPACING IN MASONRY/CONCRETE					
TABLES ARE BASED ON TYPICAL EDGE DISTANCE = 12d. FOR LESSER EDGE DISTANCE DECREASE SPACING BY MULTIPLYING WITH THE FACTOR BELOW					
EDGE DIST.	12d=3"	10d=2-1/2"	8d=2"	6d=1-1/2"	5d=1-1/4"
FACTOR	1.00	0.86	0.71	0.57	0.50
EXAMPLE: FOR 3" EDGE DIST. SPACING = 9" O.C. (FROM CHART) FOR 2" EDGE DIST. SPACING = 9 X .71 = 6.4 O.C.					

TYPICAL EDGE DISTANCE IN WOOD = 3/4"
TYPICAL END DISTANCE IN WOOD = 1"
NO REDUCTION FACTOR IS REQUIRED



USE TABLES 1 THRU 6 TO VERIFY ANCHOR
REQUIREMENTS AND STRESS LIMITATIONS OF
LOAD/SPAN COMBINATIONS FOR HEADER AND SILL.

Sealed: 3/31/2021

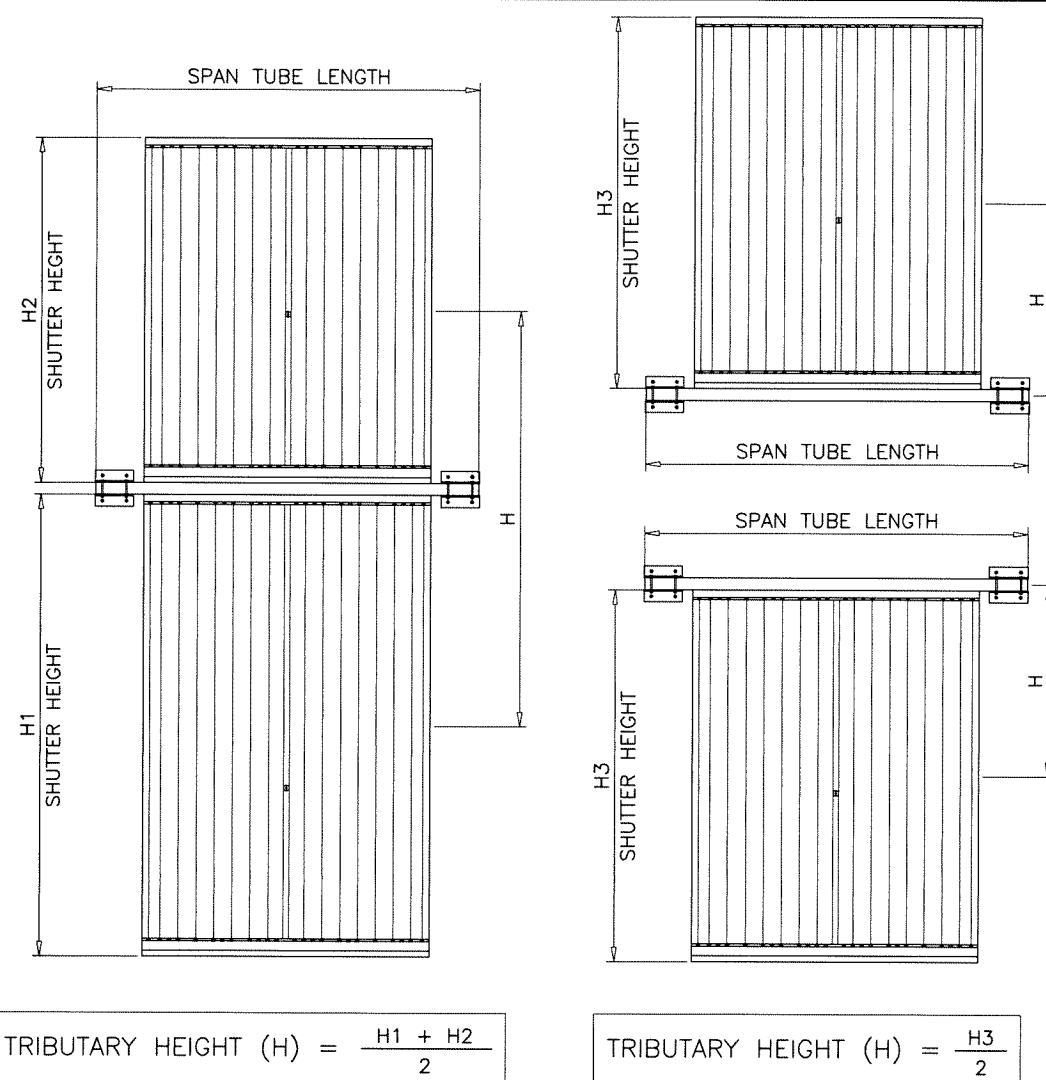
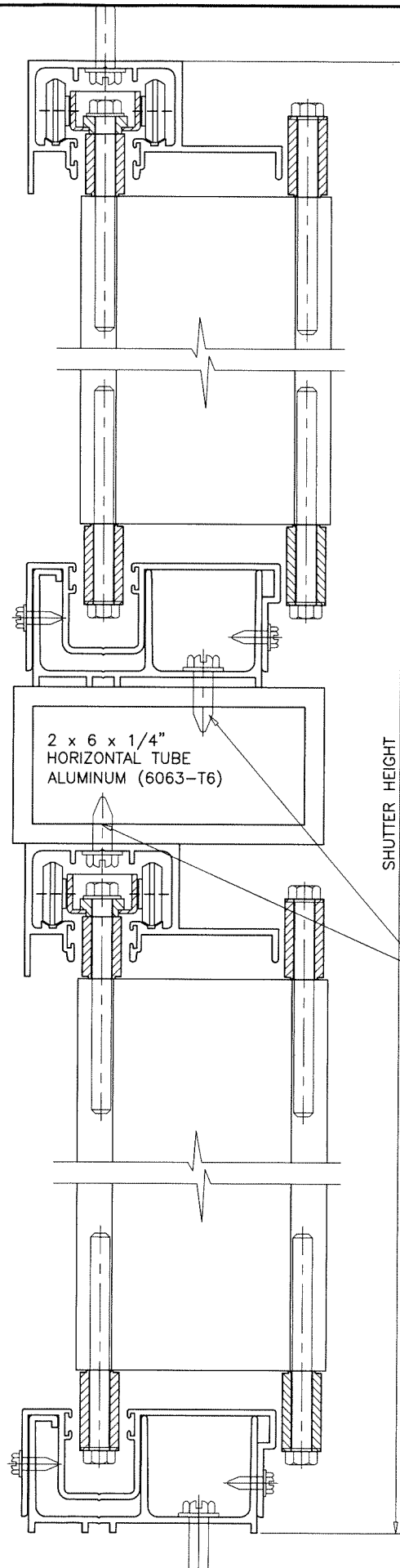
FL #26525



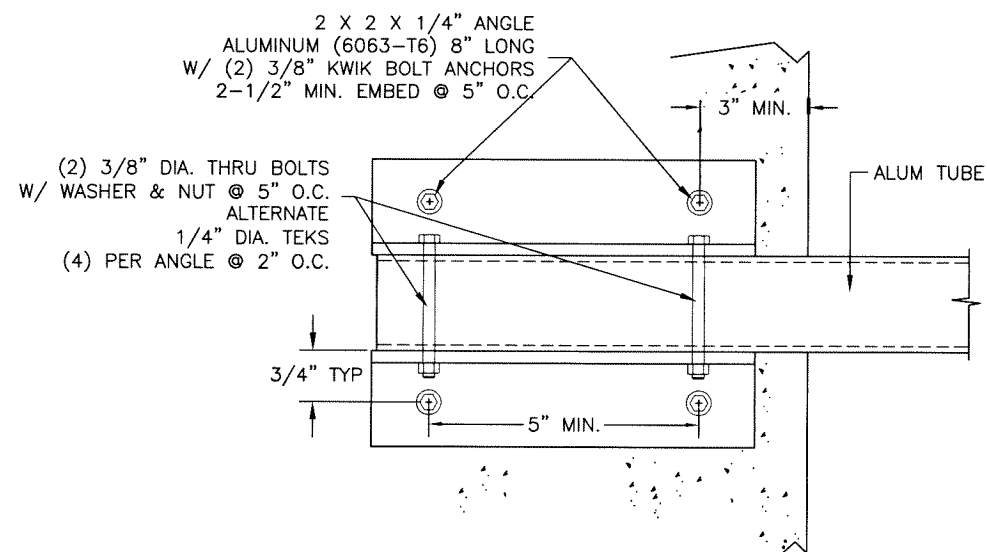
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
ACCORDION/19-72F-SSI

Wind-Defense High Velocity Alum. Accordion Shutter
SMART SHUTTERS, INC.
3070 N.W. 72nd Avenue
Miami, FL 33122
Tel. (786) 348-4151 Fax. (305) 503-6767

revisions:		no date by description	
date:	08-14-19	scale:	1/2" = 1"
dr. by:	TARIQ	chk. by:	
drawing no.		19-72F	
sheet		7 of 8	



TYPICAL ELEVATIONS



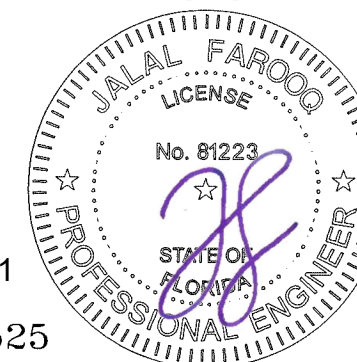
TUBE CONNECTION TO WALL
SCALE : 1/4"=1"

DESIGN LOAD CAPACITY - PSF		
TRIBUTARY HEIGHT (H)	SPAN TUBE LENGTH	2 X 6 X 1/4" ALUM TUBE
48"	102"	100.0
60"		100.0
72"		100.0
84"		100.0
96"		100.0
108"		100.0
120"		100.0
132"		97.2
144"	108"	89.1
156"		82.2
48"		100.0
60"		100.0
72"		100.0
84"		100.0
96"		100.0
108"		100.0
120"		95.0
132"		86.4
144"		79.2
156"		73.1
48"	114"	100.0
60"		100.0
72"		100.0
84"		100.0
96"		100.0
108"		94.4
120"		85.0
132"		77.2
144"	120"	70.8
156"		65.4
48"		100.0
60"		100.0
72"		100.0
84"		100.0
96"		95.5
108"		84.9
120"		76.4
132"	144"	69.5
144"		63.7
156"		58.8

DESIGN LOAD CAPACITY - PSF		
TRIBUTARY HEIGHT (H)	SPAN TUBE LENGTH	2 X 6 X 1/4" ALUM TUBE
48"	126"	100.0
60"		100.0
72"		100.0
84"		96.0
96"		84.0
108"		74.7
120"		67.2
132"		61.1
144"	132"	56.0
156"		51.7
48"		100.0
60"		100.0
72"		97.4
84"		83.5
96"		73.1
108"		65.0
120"		58.5
132"		53.1
144"	138"	48.7
156"		45.0
48"		100.0
60"		100.0
72"		85.3
84"		73.1
96"		63.9
108"		56.8
120"	144"	51.2
132"		46.5
144"		42.6
156"		39.4
48"		100.0
60"		90.1
72"		75.0
84"		64.3
96"	144"	56.3
108"		50.0
120"		45.0
132"		40.9
144"		37.5
156"		34.6

NOTES:

1. USE CHART ON THIS SHEET FOR HORIZONTAL SPAN BEAM CAPACITY.
2. FOR ACCORDION SHUTTER CAPACITY SEE SHEET 1 OF 8.
3. LOWER VALUES FROM STEPS 1 OR 2 WILL APPLY TO ENTIRE SYSTEM.



Sealed: 3/31/2021

FL #26525

FOR HEAD & SILL COMBINATIONS
SEE TYPICAL DETAILS AND SCHEDULES

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

Wind-Defense High Velocity Alum. Accordion Shutter

SMART SHUTTERS, INC.
3070 N.W. 72nd Avenue
Miami, FL. 33122
Tel. (786) 348-4151 Fax. (305) 503-6767

revisions:

no	date	by	description

date: 08-14-19
scale: 1/2" = 1"
dr. by: TARIO
chk. by:

drawing no.
19-72F
sheet 8 of 8